

Appendix B

Laboratory Reports

From: David Bosch
To: [Jeffrey D King](#)
Cc: [Dan Watts](#)
Subject: RE: Laboratory Data sheets for disposal of waste from the Superlon Site to LRI
Date: Tuesday, May 29, 2018 8:58:08 AM

Jeffrey,

Thank you for the information. From the testing data submitted, this waste is acceptable for disposal at the LRI Landfill.

If you have any questions, please contact me.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>
Sent: Monday, May 28, 2018 11:19 AM
To: EH SolidWaste <EHSolidWaste@tpchd.org>
Subject: Laboratory Data sheets for disposal of waste from the Superlon Site to LRI

Good Morning:

Attached is the laboratory Data sheets for soil that we hope to dispose of at the LRI landfill under permit 2208B. We hope to dispose of the soil on Thursday (a total of approximately 225 CY/340 tons). Please let us know if we need to supply you with any additional information. The soil was sampled at a 1 sample per >25 CY basis.

Thank you.

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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distribution, or action taken in reliance on the contents of the information contained in this transmission is strictly prohibited. If you have received this transmission in error, please notify the sender by return e-mail and delete the message.
Thank you



Analytical Resources, Incorporated
Analytical Chemists and Consultants

21 May 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18E0227

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client
Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.05.21 13:26:53 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 1860227	Turn-around Requested: 3 Day	Date: 5/15/18
ARI Client Company: Pacific Environmental Redevelopment Corporation	Phone: (425) 346-0921 or (425) 238-2212	Page: 1 of 1
Client Contact: Kenny King or Jeff King		No. of Coolers: 2 Cooler Temps: 26.1°C



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics (WA)					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 AS/Pb Only	PH Method 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-11A-051518	05/15/18	07:30	Soil	1	✓	✓								
SO-TC-11B-051518	05/15/18	07:40	Soil	1	✓	✓								
SO-TC-11C-051518	05/15/18	07:50	Soil	1	✓	✓								
SO-TC-12A-051518	05/15/18	15:50	Soil	1	✓	✓								
SO-TC-12B-051518	05/15/18	16:00	Soil	1	✓	✓								
SO-TC-12C-051518	05/15/18	16:10	Soil	1	✓	✓								
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Harte</i>		Relinquished by: (Signature)		Received by: (Signature)			
					Printed Name: Kenny King		Printed Name: Jacob Harte		Printed Name:		Printed Name:			
					Company: PERC		Company: ARI		Company:		Company:			
					Date & Time: 5/15/18 16:56		Date & Time: 05/15/18 1656		Date & Time:		Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
21-May-2018 13:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-11A-051518	18E0227-01	Solid	15-May-2018 07:30	15-May-2018 16:56
SO-TC-11B-051518	18E0227-02	Solid	15-May-2018 07:40	15-May-2018 16:56
SO-TC-11C-051518	18E0227-03	Solid	15-May-2018 07:50	15-May-2018 16:56
SO-TC-12A-051518	18E0227-04	Solid	15-May-2018 15:50	15-May-2018 16:56
SO-TC-12B-051518	18E0227-05	Solid	15-May-2018 16:00	15-May-2018 16:56
SO-TC-12C-051518	18E0227-06	Solid	15-May-2018 16:10	15-May-2018 16:56



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
21-May-2018 13:14

Case Narrative

Sample receipt

Samples as listed on the preceding page were received May 15, 2018 under ARI work order 18E0227. For details regarding sample receipt, please refer to the Cooler Receipt Form.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.

Wet Chemistry (pH- EPA 9045D)

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: Pacific Enviro

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 18E0227

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? _____

YES ☐ NO ☒

Were custody papers included with the cooler? _____

☒ YES ☐ NO

Were custody papers properly filled out (ink, signed, etc.) _____

☒ YES ☐ NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1656

26.18

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: D005206

Cooler Accepted by: JBW

Date: 05/15/18

Time: 1656

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES ☐ NO ☒

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES ☐ NO ☒

Were all bottles sealed in individual plastic bags? _____

YES ☐ NO ☒

Did all bottles arrive in good condition (unbroken)? _____

☒ YES ☐ NO

Were all bottle labels complete and legible? _____

☒ YES ☐ NO

Did the number of containers listed on COC match with the number of containers received? _____

☒ YES ☐ NO

Did all bottle labels and tags agree with custody papers? _____

☒ YES ☐ NO

Were all bottles used correct for the requested analyses? _____

☒ YES ☐ NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

☒ NA YES ☐ NO

Were all VOC vials free of air bubbles? _____

☒ NA YES ☐ NO

Was sufficient amount of sample sent in each bottle? _____

☒ YES ☐ NO

Date VOC Trip Blank was made at ARI: _____

☒ NA

Was Sample Split by ARI: ☒ NA YES Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: JBW

Date: 05/15/18

Time: 1741

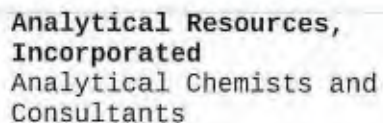
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
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Cooler Temperature Compliance Form

Completed by: JSW Date: 05/05/18 Time: 1656

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
21-May-2018 13:14

SO-TC-11A-051518
18E0227-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/15/2018 07:30

Instrument: ICP2

Analyzed: 17-May-2018 17:02

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGE0442 Sample Size: 25 mL (wet)
Prepared: 17-May-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.228	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
21-May-2018 13:14

SO-TC-11A-051518
18E0227-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/15/2018 07:30

Instrument: Accumet AR60

Analyzed: 17-May-2018 17:25

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BGE0458 Sample Size: 22.17 g (wet)
Prepared: 17-May-2018 Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	9.13	pH Units	



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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
21-May-2018 13:14

SO-TC-11B-051518
18E0227-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/15/2018 07:40

Instrument: ICP2

Analyzed: 17-May-2018 17:07

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGE0442 Sample Size: 25 mL (wet)
Prepared: 17-May-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.166	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
21-May-2018 13:14

SO-TC-11B-051518
18E0227-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/15/2018 07:40

Instrument: Accumet AR60

Analyzed: 17-May-2018 17:25

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BGE0458 Sample Size: 20.68 g (wet)
Prepared: 17-May-2018 Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.24	pH Units	



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8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
21-May-2018 13:14

SO-TC-11C-051518
18E0227-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/15/2018 07:50

Instrument: ICP2

Analyzed: 17-May-2018 17:11

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGE0442 Sample Size: 25 mL (wet)
Prepared: 17-May-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.205	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
21-May-2018 13:14

SO-TC-11C-051518
18E0227-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/15/2018 07:50

Instrument: Accumet AR60

Analyzed: 17-May-2018 17:25

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BGE0458
Prepared: 17-May-2018

Sample Size: 21.27 g (wet)
Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	9.39	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
21-May-2018 13:14

SO-TC-12A-051518
18E0227-04 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/15/2018 15:50

Instrument: ICP2

Analyzed: 17-May-2018 17:28

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGE0442 Sample Size: 25 mL (wet)
Prepared: 17-May-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.150	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
21-May-2018 13:14

SO-TC-12A-051518
18E0227-04 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/15/2018 15:50

Instrument: Accumet AR60

Analyzed: 17-May-2018 17:25

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BGE0458
Prepared: 17-May-2018

Sample Size: 20.24 g (wet)
Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.52	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
21-May-2018 13:14

SO-TC-12B-051518
18E0227-05 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/15/2018 16:00

Instrument: ICP2

Analyzed: 17-May-2018 17:15

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGE0442 Sample Size: 25 mL (wet)
Prepared: 17-May-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.158	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
21-May-2018 13:14

SO-TC-12B-051518
18E0227-05 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/15/2018 16:00

Instrument: Accumet AR60

Analyzed: 17-May-2018 17:25

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BGE0458
Prepared: 17-May-2018

Sample Size: 21.13 g (wet)
Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	9.46	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
21-May-2018 13:14

SO-TC-12C-051518
18E0227-06 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/15/2018 16:10

Instrument: ICP2

Analyzed: 17-May-2018 17:19

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGE0442 Sample Size: 25 mL (wet)
Prepared: 17-May-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.124	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
21-May-2018 13:14

SO-TC-12C-051518
18E0227-06 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/15/2018 16:10

Instrument: Accumet AR60

Analyzed: 17-May-2018 17:25

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BGE0458
Prepared: 17-May-2018

Sample Size: 20.63 g (wet)
Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.41	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
21-May-2018 13:14

TCLP Metals and Metallic Compounds - Quality Control

Batch BGE0442 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGE0442-BLK1)						Prepared: 17-May-2018 Analyzed: 17-May-2018 16:58					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BGE0442-DUP1)						Source: 18E0227-04 Prepared: 17-May-2018 Analyzed: 17-May-2018 17:24					
Arsenic	0.148	0.0140	0.250	mg/L		0.150			1.83	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BGE0442-MS1)						Source: 18E0227-04 Prepared: 17-May-2018 Analyzed: 17-May-2018 17:32					
Arsenic	4.51	0.0140	0.250	mg/L	4.00	0.150	109	75-125			
Lead	4.03	0.0065	0.100	mg/L	4.00	ND	101	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
21-May-2018 13:14

Wet Chemistry - Quality Control

Batch BGE0458 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: A

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BGE0458-BS1)										
Prepared: 17-May-2018						Analyzed: 17-May-2018 17:25				
pH	7.01	0.01	0.01	pH Units	7.00	100	0-200			
Duplicate (BGE0458-DUP1)										
Source: 18E0227-01				Prepared: 17-May-2018		Analyzed: 17-May-2018 17:25				
pH	9.13	0.01	0.01	pH Units	9.13		0.00			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
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Reported:
21-May-2018 13:14

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2018
WA-DW	Ecology - Drinking Water	C558	06/30/2018



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
21-May-2018 13:14

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

24 May 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18E0299

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client
Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.05.24 11:51:27 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Date:	5/21/2018
Page:	of
No. of Coolers:	Cooler Temps:



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics (WA)					Analysis Requested								Notes/Comments			
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	PH Method 9045C										
Sample ID	Date	Time	Matrix	No. Containers												
SO-TC-13A-052118	05/21/18	4:05	Soil	1	✓	✓										
SO-TC-13B-052118	05/21/18	4:10	Soil	1	✓	✓										
SO-TC-13C-052118	05/21/18	4:13	Soil	1	✓	✓										
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Stephanie Fiall</i>			Relinquished by: (Signature)			Received by: (Signature)		
					Printed Name: <i>Kenny King</i>			Printed Name: <i>Stephanie Fiall</i>			Printed Name:			Printed Name:		
					Company: <i>PERC</i>			Company: <i>ARC</i>			Company:			Company:		
					Date & Time: <i>5/21/18 17:05</i>			Date & Time: <i>5/21/18 17:05</i>			Date & Time:			Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-13A-052118	18E0299-01	Solid	21-May-2018 16:05	21-May-2018 17:05
SO-TC-13B-052118	18E0299-02	Solid	21-May-2018 16:10	21-May-2018 17:05
SO-TC-13C-052118	18E0299-03	Solid	21-May-2018 16:13	21-May-2018 17:05



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:48

Case Narrative

Sample receipt

One sample as listed on the preceding page was received May 21, 2018 under ARI work order 18E0299. For details regarding sample receipt, please refer to the Cooler Receipt Form.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.

Wet Chemistry (pH by EPA 9045D)

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Perc

COC No(s): _____ (NA)

Assigned ARI Job No: 18E0299

Project Name: Superior Plastics WA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES YES NO

Were custody papers properly filled out (ink, signed, etc.) YES YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 22.7

Time: 1705

If cooler temperature is out of compliance fill out Form 00070F

Temp Gun ID# D032565

Cooler Accepted by: Set Date: 5/11/13 Time: 1705

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Set Date: 5/12/13 Time: 1723

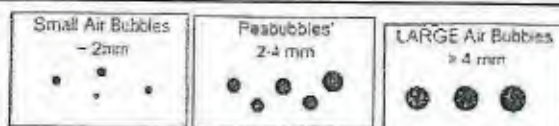
** Notify Project Manager of discrepancies or concerns **

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By:

Date:



Small → "sm" (< 2 mm)

Peabubbles → "pb" (2 to < 4 mm)

Large → "lg" (4 to < 6 mm)

Headspace → "hs" (> 6 mm)

0016F
3/2/10

Cooler Receipt Form

Revision 014



Cooler Temperature Compliance Form

ARI Work Order: 1360199

Cooler#: _____ Temperature(°C): 22.7

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received
above 6°

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: Set

Date: 5/11/10

Time: 1905

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:48

SO-TC-13A-052118
18E0299-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/21/2018 16:05

Instrument: ICP2

Analyzed: 23-May-2018 15:11

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGE0588 Sample Size: 25 mL (wet)
Prepared: 23-May-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.103	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:48

SO-TC-13A-052118
18E0299-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/21/2018 16:05

Instrument: Accumet AR60

Analyzed: 23-May-2018 13:15

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BGE0579 Sample Size: 20 g (wet)
Prepared: 23-May-2018 Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.61	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:48

SO-TC-13B-052118
18E0299-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/21/2018 16:10

Instrument: ICP2

Analyzed: 23-May-2018 15:15

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGE0588 Sample Size: 25 mL (wet)
Prepared: 23-May-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.153	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:48

SO-TC-13B-052118
18E0299-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/21/2018 16:10

Instrument: Accumet AR60

Analyzed: 23-May-2018 13:15

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGE0579
Prepared: 23-May-2018

Sample Size: 20.02 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.64	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:48

SO-TC-13C-052118
18E0299-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/21/2018 16:13

Instrument: ICP2

Analyzed: 23-May-2018 15:20

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGE0588 Sample Size: 25 mL (wet)
Prepared: 23-May-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.145	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:48

SO-TC-13C-052118
18E0299-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/21/2018 16:13

Instrument: Accumet AR60

Analyzed: 23-May-2018 13:15

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGE0579
Prepared: 23-May-2018

Sample Size: 20.15 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.45	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:48

TCLP Metals and Metallic Compounds - Quality Control

Batch BGE0588 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BGE0588-BLK1)					Prepared: 23-May-2018 Analyzed: 23-May-2018 14:58				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:48

Wet Chemistry - Quality Control

Batch BGE0579 - EPA 9045D

Instrument: Accumet AR60 Analyst: k

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGE0579-BS1)									
Prepared: 23-May-2018 Analyzed: 23-May-2018 13:15									
pH	7.03	0.01	0.01	pH Units	7.00	100	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:48

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2018
WA-DW	Ecology - Drinking Water	C558	06/30/2018



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:48

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

24 May 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18E0298

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client
Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.05.24 11:51:01 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 13E0298	Turn-around Requested: 3 day	Date: 5/21/2018
ARI Client Company: Pacific Environmental Redevelopment Corp	Phone: 425-346-0921 or 425-238-2212	Page: of
Client Contact: Kenny King or Jeff King		No. of Coolers: Cooler Temps:



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics (WA)					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	PH Method 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-14A-052118	05/21/18	3:50	Soil	1	✓	✓								
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Stephanie Fisher</i>		Relinquished by: (Signature)		Received by: (Signature)			
					Printed Name: <i>Kenny King</i>		Printed Name: <i>Stephanie Fisher</i>		Printed Name:		Printed Name:			
					Company: <i>PERC</i>		Company: <i>ARI</i>		Company:		Company:			
					Date & Time: <i>5/21/18 17:04</i>		Date & Time: <i>5/21/18 17:05</i>		Date & Time:		Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-14A-052118	18E0298-01	Solid	21-May-2018 15:50	21-May-2018 17:05



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:46

Case Narrative

Sample receipt

One sample as listed on the preceding page was received May 21, 2018 under ARI work order 18E0298. For details regarding sample receipt, please refer to the Cooler Receipt Form.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.

Wet Chemistry (pH by EPA 9045D)

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Perc

COC No(s): _____ (NA)

Assigned ARI Job No: 1B0298

Project Name: Superior Plastics WA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 22.7

Time: 1705

If cooler temperature is out of compliance fill out form 00070F

Cooler Accepted by: Seif Date: 5/11/13 Time: 1705 Temp Gun ID# D002565

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Seif Date: 5/21/13 Time: 1720

** Notify Project Manager of discrepancies or concerns **

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
---------------------------------------	---------------------------------	--	---



Cooler Temperature Compliance Form

ARI Work Order: 18E0298

Cooler#: _____ Temperature(°C): 22.7

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received
above 6°

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: SEL

Date: 5/11/18

Time: 1905

00070F

Cooler Temperature Compliance Form

Version 000

3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:46

SO-TC-14A-052118
18E0298-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/21/2018 15:50

Instrument: ICP2

Analyzed: 23-May-2018 15:07

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGE0588 Sample Size: 25 mL (wet)
Prepared: 23-May-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.667	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:46

SO-TC-14A-052118
18E0298-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/21/2018 15:50

Instrument: Accumet AR60

Analyzed: 23-May-2018 13:15

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BGE0579 Sample Size: 20.06 g (wet)
Prepared: 23-May-2018 Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	11.7	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:46

TCLP Metals and Metallic Compounds - Quality Control

Batch BGE0588 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BGE0588-BLK1)					Prepared: 23-May-2018 Analyzed: 23-May-2018 14:58				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:46

Wet Chemistry - Quality Control

Batch BGE0579 - EPA 9045D

Instrument: Accumet AR60 Analyst: k

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BGE0579-BS1)										
Prepared: 23-May-2018						Analyzed: 23-May-2018 13:15				
pH	7.03	0.01	0.01	pH Units	7.00	100	0-200			
Duplicate (BGE0579-DUP1)										
Source: 18E0298-01				Prepared: 23-May-2018 Analyzed: 23-May-2018 13:15						
pH	11.7	0.01	0.01	pH Units	11.7			0.34	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:46

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2018
WA-DW	Ecology - Drinking Water	C558	06/30/2018



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
24-May-2018 11:46

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

Thank you

From: David Bosch [<mailto:DBosch@tpchd.org>]
Sent: Thursday, June 7, 2018 9:44 AM
To: Jeffrey D King <jking@perc-nw.com>
Subject: RE: IMPORTANT: Laboratory Data sheets for disposal of waste from the Superlon Site to LRI

Jeffrey,

Thank you for the data sheets dated May 30, 2018 and June 4, 2018. From this testing data submitted, this waste is acceptable for disposal at the LRI Landfill.

You are welcome to submit future lab data sheets directly to me for this project. If you should get an "out of office reply" from me and you need a response immediately, please forward the email to our "EH Solid Waste" email. Another coworker should be able to respond to you.

If you have any questions, please contact me.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>
Sent: Thursday, June 7, 2018 7:43 AM
To: David Bosch <DBosch@tpchd.org>
Subject: IMPORTANT: Laboratory Data sheets for disposal of waste from the Superlon Site to LRI
Importance: High

David:

Attached are lab reports for some more waste (>120 tons) we will be disposing of at LRI.

BTW: Is this the way you want me to send it or should I go through the "usual" email address?

Thanks again

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation



Analytical Resources, Incorporated
Analytical Chemists and Consultants

30 May 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18E0330

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila, o=Analytical Resources, Inc.,
ou=Client Services, cn=Shelly Fishel, email=shelly.fishel@arilabs.com
Date: 2018.05.30 17:12:00 -0700

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18E0330	Turn-around Requested: 3 Day
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Date: 5/23/18

ARI Client Company: Pacific Environmental Redevelopment Co. (PERC)	Phone: 425-346-0821 or 425-238-2212
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Page: 1 of 1

Client Contact: Kenny King or Jeff King
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No. of Coolers: 1	Cooler Temps: 31.3
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Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics (WA)
--

Analysis Requested										Notes/Comments
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Client Project #: SLON	Samplers: King
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Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb only	PH Method 9045C							
SO-TC-15A-052318	05/23/18	09:35	Soil	1	✓	✓							
SO-TC-15B-052318	05/23/18	09:45	Soil	1	✓	✓							
SO-TC-15C-052318	05/23/18	09:55	Soil	1	✓	✓							

Comments/Special Instructions	Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: JEFF KING	Printed Name: Stephanie Fisk	Printed Name:	Printed Name:
	Company: PERC	Company: ARI	Company:	Company:
	Date & Time: 5/23/18 1:46	Date & Time: 5/23/18 1346	Date & Time:	Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
30-May-2018 17:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-15A-052318	18E0330-01	Solid	23-May-2018 09:35	23-May-2018 13:46
SO-TC-15B-052318	18E0330-02	Solid	23-May-2018 09:45	23-May-2018 13:46
SO-TC-15C-052318	18E0330-03	Solid	23-May-2018 09:55	23-May-2018 13:46



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
30-May-2018 17:06

Case Narrative

Sample receipt

Samples as listed on the preceding page were received May 23, 2018 under ARI work order 18E0330. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry (pH)

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Perc

COC No(s): _____ NA

Assigned ARI Job No: 18E0330

Project Name: Superior Plastics

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES YES NO

Were custody papers properly filled out (ink, signed, etc.) YES YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 31.3

Time: 1346

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: D002565

Cooler Accepted by: Set Date: 5/23/18 Time: 1346

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Set Date: 5/23/18 Time: 1403

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles → 2mm	Peabubbles 2-4 mm	LARGE Air Bubbles > 4 mm	Small → "sm" (< 2 mm)
			Peabubbles → "pb" (2 to < 4 mm)
			Large → "lg" (4 to < 6 mm)
			Headspace → "hs" (> 6 mm)



Cooler Temperature Compliance Form

ARI Work Order: 18E0330

Cooler#: _____ Temperature(°C): 31.3

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received
above 6

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: Set

Date: 5/23/18

Time: 1346

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
30-May-2018 17:06

SO-TC-15A-052318
18E0330-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/23/2018 09:35

Instrument: ICP2

Analyzed: 29-May-2018 13:58

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGE0666 Sample Size: 25 mL (wet)
Prepared: 25-May-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.127	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
30-May-2018 17:06

SO-TC-15A-052318
18E0330-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/23/2018 09:35

Instrument: Accumet AR60

Analyzed: 25-May-2018 13:42

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BGE0622 Sample Size: 20.05 g (wet)
Prepared: 24-May-2018 Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.35	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
30-May-2018 17:06

SO-TC-15B-052318
18E0330-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/23/2018 09:45

Instrument: ICP2

Analyzed: 29-May-2018 14:03

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGE0666 Sample Size: 25 mL (wet)
Prepared: 25-May-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.125	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
30-May-2018 17:06

SO-TC-15B-052318
18E0330-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/23/2018 09:45

Instrument: Accumet AR60

Analyzed: 25-May-2018 13:42

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGE0622
Prepared: 24-May-2018

Sample Size: 20.15 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.28	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
30-May-2018 17:06

SO-TC-15C-052318
18E0330-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/23/2018 09:55

Instrument: ICP2

Analyzed: 29-May-2018 14:07

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGE0666 Sample Size: 25 mL (wet)
Prepared: 25-May-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.117	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
30-May-2018 17:06

SO-TC-15C-052318
18E0330-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/23/2018 09:55

Instrument: Accumet AR60

Analyzed: 25-May-2018 13:42

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGE0622
Prepared: 24-May-2018

Sample Size: 20.04 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.97	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
30-May-2018 17:06

TCLP Metals and Metallic Compounds - Quality Control

Batch BGE0666 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGE0666-BLK1)						Prepared: 25-May-2018 Analyzed: 29-May-2018 13:50					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
30-May-2018 17:06

Wet Chemistry - Quality Control

Batch BGE0622 - EPA 9045D

Instrument: Accumet AR60 Analyst: k

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BGE0622-BS1)						Prepared: 24-May-2018 Analyzed: 25-May-2018 13:42					
pH	6.99	0.01	0.01	pH Units	7.00		99.9	0-200			
Duplicate (BGE0622-DUP1)						Source: 18E0330-01 Prepared: 24-May-2018 Analyzed: 25-May-2018 13:42					
pH	8.40	0.01	0.01	pH Units		8.35			0.60	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
30-May-2018 17:06

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2018
WA-DW	Ecology - Drinking Water	C558	06/30/2018



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
30-May-2018 17:06

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

04 June 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18E0392

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client Services,
cn=Shelly Fishel, email=shelly.fishel@arilabs.com
Date: 2018.06.04 14:51:57 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18E0392	Turn-around Requested: 3 Day
--	-------------------------------------

ARI Client Company: PERC	Phone: 425-346-0921 or 425-238-2212
------------------------------------	-------------------------------------

Client Contact: Kenny King or Jeff King

Client Project Name: Superlon Plastics (WA)

Client Project #: SLON	Samplers: King
----------------------------------	--------------------------

Sample ID	Date	Time	Matrix	No. Containers
SO-TC-16A-052918	05/29/18	12:45	Soil	1
SO-TC-16B-052918	05/29/18	12:55	Soil	1
SO-TC-16C-052918	05/29/18	13:10	Soil	1

Date: 5/29/18

Page: of

No. of Coolers: 1	Cooler Temps: 21.3
--------------------------	---------------------------

Analysis Requested								Notes/Comments
TCLP 1311 As/Pb Only	PH Method 9045C							
✓	✓							
✓	✓							
✓	✓							

Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>	Received by: (Signature) <i>Stephanie Fiskel</i>	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Kenny King	Printed Name: Stephanie Fiskel	Printed Name:	Printed Name:
	Company: PERC	Company: ARI	Company:	Company:
	Date & Time: 3/29/18 15:38	Date & Time: 5/29/18 15:38	Date & Time:	Date & Time:



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
04-Jun-2018 14:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-16A-052918	18E0392-01	Solid	29-May-2018 12:45	29-May-2018 15:38
SO-TC-16B-052918	18E0392-02	Solid	29-May-2018 12:55	29-May-2018 15:38
SO-TC-16C-052918	18E0392-03	Solid	29-May-2018 13:10	29-May-2018 15:38



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
04-Jun-2018 14:49

Case Narrative

Sample receipt

Samples as listed on the preceding page were received May 29, 2018 under ARI work order 18E0392. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry (pH)

The sample(s) were prepared and analyzed within the recommended holding times.

No analytical complications noted.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Perc
COC No(s): NA
Assigned ARI Job No: 18E0392

Project Name: Superior Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA
Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
Were custody papers included with the cooler? YES YES NO
Were custody papers properly filled out (ink, signed, etc.) YES YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 24.3
Time: 1538
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID# D002565

Cooler Accepted by: Set Date: 5/29/18 Time: 1538

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:
Was sufficient ice used (if appropriate)? NA YES NO
Were all bottles sealed in individual plastic bags? YES NO
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Was Sample Split by ARI: NA YES Date/Time: Equipment: Split by:

Samples Logged by: Set Date: 5/29/18 Time: 1652

** Notify Project Manager of discrepancies or concerns **

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Small Air Bubbles → 2mm	Peabubbles 2-4 mm	LARGE Air Bubbles → 4 mm	Small → "sm" (< 2 mm)
			Peabubbles → "pb" (2 to < 4 mm)
			Large → "lg" (4 to < 6 mm)
			Headspace → "hs" (> 6 mm)



Cooler Temperature Compliance Form

ARI Work Order: 18E0392

Cooler#: _____ Temperature(°C): 21.3

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received
above 6°

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: Set

Date: 5/29/18 Time: 1538

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
04-Jun-2018 14:49

SO-TC-16A-052918
18E0392-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/29/2018 12:45

Instrument: ICP2

Analyzed: 01-Jun-2018 12:09

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGE0764 Sample Size: 25 mL (wet)
Prepared: 31-May-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.101	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
04-Jun-2018 14:49

SO-TC-16A-052918
18E0392-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/29/2018 12:45

Instrument: Accumet AR60

Analyzed: 04-Jun-2018 12:22

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGF0033
Prepared: 04-Jun-2018

Sample Size: 20.02 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.60	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
04-Jun-2018 14:49

SO-TC-16B-052918
18E0392-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/29/2018 12:55

Instrument: ICP2

Analyzed: 01-Jun-2018 13:16

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGE0764 Sample Size: 25 mL (wet)
Prepared: 31-May-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.135	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
04-Jun-2018 14:49

SO-TC-16B-052918
18E0392-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/29/2018 12:55

Instrument: Accumet AR60

Analyzed: 04-Jun-2018 12:22

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BGF0033
Prepared: 04-Jun-2018

Sample Size: 20.16 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.10	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
04-Jun-2018 14:49

SO-TC-16C-052918
18E0392-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/29/2018 13:10

Instrument: ICP2

Analyzed: 01-Jun-2018 13:54

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGE0764 Sample Size: 25 mL (wet)
Prepared: 31-May-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.120	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
04-Jun-2018 14:49

SO-TC-16C-052918
18E0392-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/29/2018 13:10

Instrument: Accumet AR60

Analyzed: 04-Jun-2018 12:22

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGF0033
Prepared: 04-Jun-2018

Sample Size: 20.13 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.99	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
04-Jun-2018 14:49

TCLP Metals and Metallic Compounds - Quality Control

Batch BGE0764 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGE0764-BLK1)						Prepared: 31-May-2018 Analyzed: 01-Jun-2018 12:59					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
04-Jun-2018 14:49

Wet Chemistry - Quality Control

Batch BGF0033 - EPA 9045D

Instrument: Accumet AR60 Analyst: k

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BGF0033-BS1)										
						Prepared: 04-Jun-2018 Analyzed: 04-Jun-2018 12:22				
pH	7.02	0.01	0.01	pH Units	7.00	100	0-200			
Duplicate (BGF0033-DUP1)										
		Source: 18E0392-01				Prepared: 04-Jun-2018 Analyzed: 04-Jun-2018 12:22				
pH	8.64	0.01	0.01	pH Units	8.60			0.46	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
04-Jun-2018 14:49

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2018
WA-DW	Ecology - Drinking Water	C558	06/30/2018



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
04-Jun-2018 14:49

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

From: David Bosch
To: [Jeffrey D King](#)
Subject: RE: IMPORTANT: Laboratory Data sheets for disposal of waste from the Superlon Site to LRI
Date: Thursday, June 14, 2018 9:20:21 AM

Jeffrey,

The Health Department has reviewed the four lab data sets dated June 11, 2018. From this testing data submitted, this waste is acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist II
Environmental Health
(253) 798-6574 o • dbosch@tpchd.org
(253) 798-6498 f • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jkking@perc-nw.com>
Sent: Wednesday, June 13, 2018 6:57 AM
To: David Bosch <DBosch@tpchd.org>
Subject: RE: IMPORTANT: Laboratory Data sheets for disposal of waste from the Superlon Site to LRI

David:

Attached are the latest set of laboratory data for the soil we hope to dispose of at LRI.

Thank you.

Jeff

Jeffrey D. King, P.G.

Principal/President
Pacific Environmental & Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290
United States of America
425-238-2212
jkking@perc-nw.com

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11 June 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18F0036

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc.,
ou=Client Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.06.11 11:23:53 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

DRAFT REPORT

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: **18F0036** Turn-around Requested: **3 Day**

ARI Client Company: **PERC** Phone: **425-346-0921**

Client Contact: **Kenny King**

Client Project Name: **Superlon Plastics (WA)**

Client Project #: **SLON** Samplers: **King**

Date: **6/4/18**

Page: **1** of **1**

No. of Coolers: **0** Cooler Temps: **25.0°C**



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

					Analysis Requested								Notes/Comments		
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	PH Method 9045C									
SO-TC-17A-060418	06/04/18	09:35	Soil	1	✓	✓									
SO-TC-17B-060418	06/04/18	09:45	Soil	1	✓	✓									
SO-TC-17C-060418	06/04/18	09:55	Soil	1	✓	✓									
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Jacob Walte</i>			Relinquished by: (Signature)			Received by: (Signature)	
					Printed Name: <i>Kenny King</i>			Printed Name: <i>Jacob Walte</i>			Printed Name:			Printed Name:	
					Company: <i>PERC</i>			Company: <i>ARI</i>			Company:			Company:	
					Date & Time: <i>6/4/18 16:48</i>			Date & Time: <i>06/04/18 1648</i>			Date & Time:			Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 11:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-17A-060418	18F0036-01	Solid	04-Jun-2018 09:35	04-Jun-2018 16:48
SO-TC-17B-060418	18F0036-02	Solid	04-Jun-2018 09:45	04-Jun-2018 16:48
SO-TC-17C-060418	18F0036-03	Solid	04-Jun-2018 09:55	04-Jun-2018 16:48

DRAFT REPORT

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PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 11:17

Case Narrative

Sample receipt

Samples as listed on the preceding page were received June 4, 2018 under ARI work order 18F0036. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry (pH)

The sample(s) were prepared and analyzed within the recommended holding times.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 18F0036

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) _____

Time: 1648

25.0°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DO05206

Cooler Accepted by: JBW

Date: 06/04/18

Time: 1648

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? _____ Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES NO

Were all bottles sealed in individual plastic bags? _____

YES NO

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI: _____

NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JBW Date: 06/04/18 Time: 1658

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles = 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
---------------------------------------	---------------------------------	--	---



Cooler Temperature Compliance Form

ARI Work Order: 18F0036

Cooler#: _____ Temperature(°C): 25.0°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received above 6°C

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: SDW

Date: 06/04/18

Time: 1648

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 11:17

SO-TC-17A-060418
18F0036-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/04/2018 09:35

Instrument: ICP2

Analyzed: 08-Jun-2018 13:47

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0100 Sample Size: 25 mL (wet)
Prepared: 06-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0886	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U

DRAFT REPORT

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PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 11:17

SO-TC-17A-060418
18F0036-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/04/2018 09:35

Instrument: Accumet AR60

Analyzed: 06-Jun-2018 13:44

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BGF0096
Prepared: 06-Jun-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.48	pH Units	

DRAFT REPORT

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PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 11:17

SO-TC-17B-060418
18F0036-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/04/2018 09:45

Instrument: ICP2

Analyzed: 08-Jun-2018 13:35

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0100 Sample Size: 25 mL (wet)
Prepared: 06-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.114	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U

DRAFT REPORT

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PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 11:17

SO-TC-17B-060418
18F0036-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/04/2018 09:45

Instrument: Accumet AR60

Analyzed: 06-Jun-2018 13:44

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BGF0096
Prepared: 06-Jun-2018

Sample Size: 20.11 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.83	pH Units	

DRAFT REPORT

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PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 11:17

SO-TC-17C-060418
18F0036-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/04/2018 09:55

Instrument: ICP2

Analyzed: 08-Jun-2018 13:39

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0100 Sample Size: 25 mL (wet)
Prepared: 06-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.217	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.374	mg/L	

DRAFT REPORT

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PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 11:17

SO-TC-17C-060418
18F0036-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/04/2018 09:55

Instrument: Accumet AR60

Analyzed: 06-Jun-2018 13:44

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGF0096
Prepared: 06-Jun-2018

Sample Size: 20.07 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.39	pH Units	

DRAFT REPORT

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 11:17

Wet Chemistry - Quality Control

Batch BGF0096 - EPA 9045D

Instrument: Accumet AR60 Analyst: k

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BGF0096-BS1)						Prepared: 06-Jun-2018 Analyzed: 06-Jun-2018 13:44					
pH	7.03	0.01	0.01	pH Units	7.00		100	0-200			
Duplicate (BGF0096-DUP1)						Source: 18F0036-01 Prepared: 06-Jun-2018 Analyzed: 06-Jun-2018 13:44					
pH	8.49	0.01	0.01	pH Units		8.48			0.12	20	

DRAFT REPORT

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PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 11:17

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2018
WA-DW	Ecology - Drinking Water	C558	06/30/2018



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 11:17

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

11 June 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18F0037

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client
Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.06.11 13:40:33 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18F0037		Turn-around Requested: 3 Day			Date: 6/4/18		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 425-346-0921			Page: 1 of 1									
Client Contact: Kenny King					No. of Coolers: 0 Cooler Temps: 25.0°C									
Client Project Name: Superlon Plastics (WA)					Analysis Requested							Notes/Comments		
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	PH Method 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-18A-060418	06/04/18	14:32	Soil	1	✓	✓								
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Jacob Walte</i>			Relinquished by: (Signature)			Received by: (Signature)			
		Printed Name: <i>Kenny King</i>			Printed Name: <i>Jacob Walte</i>			Printed Name:			Printed Name:			
		Company: <i>PERC</i>			Company: <i>ARI</i>			Company:			Company:			
		Date & Time: <i>6/4/18 16:48</i>			Date & Time: <i>06/04/18 1648</i>			Date & Time:			Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 13:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-18A-060418	18F0037-01	Solid	04-Jun-2018 14:32	04-Jun-2018 16:48



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 13:31

Case Narrative

Sample receipt

The sample as listed on the preceding page was received June 4, 2018 under ARI work order 18F0037. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry (pH)

The sample was prepared and analyzed within the recommended holding times.

TCLP Metals

The sample was digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 18F0037

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1648

25.0°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOES 206

Cooler Accepted by: ISW

Date: 06/04/18

Time: 1648

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES NO

Were all bottles sealed in individual plastic bags? _____

YES NO

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI: _____

NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: ISW Date: 06/04/18 Time: 1701

** Notify Project Manager of discrepancies or concerns **

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
---------------------------------------	---------------------------------	--	---



ARI Work Order: 18F0037

Cooler#:

Temperature(°C):

25.0°C

Sample ID

Bottle Count

Bottle Type

Samples received above 6°C

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Completed by: SSW

Date: 06/04/18

Time: 1648

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 13:31

SO-TC-18A-060418
18F0037-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/04/2018 14:32

Instrument: ICP2

Analyzed: 08-Jun-2018 13:43

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0100 Sample Size: 25 mL (wet)
Prepared: 06-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.307	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0341	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 13:31

SO-TC-18A-060418
18F0037-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/04/2018 14:32

Instrument: Accumet AR60

Analyzed: 06-Jun-2018 13:44

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGF0096
Prepared: 06-Jun-2018

Sample Size: 20.1 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	11.8	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 13:31

TCLP Metals and Metallic Compounds - Quality Control

Batch BGF0100 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: EL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BGF0100-BLK1)					Prepared: 06-Jun-2018 Analyzed: 08-Jun-2018 13:30					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 13:31

Wet Chemistry - Quality Control

Batch BGF0096 - EPA 9045D

Instrument: Accumet AR60 Analyst: k

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGF0096-BS1)									
Prepared: 06-Jun-2018 Analyzed: 06-Jun-2018 13:44									
pH	7.03	0.01	0.01	pH Units	7.00	100	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 13:31

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2018
WA-DW	Ecology - Drinking Water	C558	06/30/2018



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 13:31

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

11 June 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18F0053

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc.,
ou=Client Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.06.11 12:40:06 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 18F0053		Turn-around Requested: 3 Day			Date: 6/5/18		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC			Phone: 425-346-0921		Page: of									
Client Contact: Kenny King					No. of Coolers: 0 Cooler Temps: 25.1°C									
Client Project Name: Superlon Plastics (WA)					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only		PH Method 9045C							
Sample ID		Date	Time	Matrix	No. Containers									
SO-TC-19A-060518		06/05/18	13:00	Soil	1	✓	✓							
SO-TC-19B-060518		06/05/18	13:10	Soil	1	✓	✓							
SO-TC-19C-060518		06/05/18	13:20	Soil	1	✓	✓							
Comments/Special Instructions		Relinquished by: (Signature) Kenny King			Received by: (Signature) Scott Walter			Relinquished by: (Signature)			Received by: (Signature)			
		Printed Name: Kenny King			Printed Name: Scott Walter			Printed Name:			Printed Name:			
		Company: PERC			Company: ARI			Company:			Company:			
		Date & Time: 6/5/18 16:55			Date & Time: 06/05/18 1655			Date & Time:			Date & Time:			

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-19A-060518	18F0053-01	Solid	05-Jun-2018 13:00	05-Jun-2018 16:55
SO-TC-19B-060518	18F0053-02	Solid	05-Jun-2018 13:10	05-Jun-2018 16:55
SO-TC-19C-060518	18F0053-03	Solid	05-Jun-2018 13:20	05-Jun-2018 16:55



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:27

Case Narrative

Sample receipt

Samples as listed on the preceding page were received June 5, 2018 under ARI work order 18F0053. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry (pH by EPA 9045D)

The sample(s) were prepared and analyzed within the recommended holding times.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 18F0053

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1655

25.1°C

If cooler temperature is out of compliance fill out form 00070F

Cooler Accepted by: JBW

Date: 06/05/18

Temp Gun ID#: 12005206

Time: 1655

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES NO

Were all bottles sealed in individual plastic bags? _____

YES NO

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI: _____

NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JBW Date: 06/05/18 Time: 1710

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
---------------------------------------	---------------------------------	--	---



Cooler Temperature Compliance Form

ARI Work Order: 18F0053

Cooler#: _____ Temperature(°C): 25.1°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples Received above 6°C

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: JSW Date: 06/05/18 Time: 1655

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:27

SO-TC-19A-060518
18F0053-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/05/2018 13:00

Instrument: ICP2

Analyzed: 08-Jun-2018 14:25

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0126 Sample Size: 25 mL (wet)
Prepared: 07-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0877	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:27

SO-TC-19A-060518
18F0053-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/05/2018 13:00

Instrument: Accumet AR60

Analyzed: 06-Jun-2018 13:44

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGF0096
Prepared: 06-Jun-2018

Sample Size: 20.3 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.09	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:27

SO-TC-19B-060518
18F0053-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/05/2018 13:10

Instrument: ICP2

Analyzed: 08-Jun-2018 14:12

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0126 Sample Size: 25 mL (wet)
Prepared: 07-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0864	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:27

SO-TC-19B-060518
18F0053-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/05/2018 13:10

Instrument: Accumet AR60

Analyzed: 06-Jun-2018 13:44

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BGF0096
Prepared: 06-Jun-2018

Sample Size: 20.03 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.31	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:27

SO-TC-19C-060518
18F0053-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/05/2018 13:20

Instrument: ICP2

Analyzed: 08-Jun-2018 14:17

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0126 Sample Size: 25 mL (wet)
Prepared: 07-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0968	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:27

SO-TC-19C-060518
18F0053-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/05/2018 13:20

Instrument: Accumet AR60

Analyzed: 06-Jun-2018 13:44

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGF0096
Prepared: 06-Jun-2018

Sample Size: 20.07 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.17	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:27

TCLP Metals and Metallic Compounds - Quality Control

Batch BGF0126 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: EL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGF0126-BLK1)						Prepared: 07-Jun-2018 Analyzed: 08-Jun-2018 14:08					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BGF0126-DUP1)						Source: 18F0053-01 Prepared: 07-Jun-2018 Analyzed: 08-Jun-2018 14:29					
Arsenic	0.0988	0.0140	0.250	mg/L		0.0877			11.90	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BGF0126-MS1)						Source: 18F0053-01 Prepared: 07-Jun-2018 Analyzed: 08-Jun-2018 14:34					
Arsenic	4.33	0.0140	0.250	mg/L	4.00	0.0877	106	75-125			
Lead	3.94	0.0065	0.100	mg/L	4.00	ND	98.5	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:27

Wet Chemistry - Quality Control

Batch BGF0096 - EPA 9045D

Instrument: Accumet AR60 Analyst: k

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGF0096-BS1)					Prepared: 06-Jun-2018 Analyzed: 06-Jun-2018 13:44				
pH	7.03	0.01	0.01	pH Units	7.00	100	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:27

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2018
WA-DW	Ecology - Drinking Water	C558	06/30/2018



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:27

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

11 June 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18F0054

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client
Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.06.11 12:40:32 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18F0054		Turn-around Requested: 3 Day		Date: 6/5/18		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)		
ARI Client Company: PERC		Phone: 425-346-0921		Page: of				
Client Contact: Kenny King				No. of Coolers: 2 Cooler Temps: 25.1°C				
Client Project Name: Superlon Plastics (WA)				Analysis Requested				Notes/Comments
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	PH Method 9045C			
Sample ID	Date	Time	Matrix	No. Containers				
SO-TC-20A-060518	06/05/18	15:00	Soil	1	✓	✓		
Comments/Special Instructions	Relinquished by:		Received by:		Relinquished by:		Received by:	
	(Signature) <i>Kenny King</i>		(Signature) <i>Jacob Walte</i>		(Signature)		(Signature)	
	Printed Name: Kenny King		Printed Name: Jacob Walte		Printed Name:		Printed Name:	
	Company: PERC		Company: ARI		Company:		Company:	
	Date & Time: 6/5/18 16:55		Date & Time: 06/05/18 16:55		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-20A-060518	18F0054-01	Solid	05-Jun-2018 15:00	05-Jun-2018 16:55



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:28

Case Narrative

Sample receipt

Samples as listed on the preceding page were received June 5, 2018 under ARI work order 18F0054. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry (pH by EPA Method 9045D)

The sample(s) were prepared and analyzed within the recommended holding times.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 18F0054

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? _____

YES ☐ NO ☒

Were custody papers included with the cooler? _____

YES ☒ NO ☐

Were custody papers properly filled out (ink, signed, etc.) _____

YES ☒ NO ☐

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1655

25.1°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 1805506

Cooler Accepted by: JBW

Date: 06/05/18

Time: 1655

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES ☐ NO ☒

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES ☐ NO ☒

Were all bottles sealed in individual plastic bags? _____

YES ☐ NO ☒

Did all bottles arrive in good condition (unbroken)? _____

YES ☒ NO ☐

Were all bottle labels complete and legible? _____

YES ☒ NO ☐

Did the number of containers listed on COC match with the number of containers received? _____

YES ☒ NO ☐

Did all bottle labels and tags agree with custody papers? _____

YES ☒ NO ☐

Were all bottles used correct for the requested analyses? _____

YES ☒ NO ☐

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA YES ☐ NO ☐

Were all VOC vials free of air bubbles? _____

NA YES ☐ NO ☐

Was sufficient amount of sample sent in each bottle? _____

YES ☒ NO ☐

Date VOC Trip Blank was made at ARI: _____

NA ☒

Was Sample Split by ARI: NA YES ☐ Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JBW Date: 06/05/18 Time: 1712

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
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ARI Work Order: 18F0054

Cooler#: _____ Temperature(°C): 25.1°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples Received above 6°C

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: JSW Date: 06/05/18 Time: 1655

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:28

SO-TC-20A-060518
18F0054-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/05/2018 15:00

Instrument: ICP2

Analyzed: 08-Jun-2018 14:21

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0126 Sample Size: 25 mL (wet)
Prepared: 07-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.467	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:28

SO-TC-20A-060518
18F0054-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/05/2018 15:00

Instrument: Accumet AR60

Analyzed: 06-Jun-2018 13:44

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGF0096
Prepared: 06-Jun-2018

Sample Size: 20.1 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.2	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:28

TCLP Metals and Metallic Compounds - Quality Control

Batch BGF0126 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: EL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BGF0126-BLK1)					Prepared: 07-Jun-2018 Analyzed: 08-Jun-2018 14:08					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:28

Wet Chemistry - Quality Control

Batch BGF0096 - EPA 9045D

Instrument: Accumet AR60 Analyst: k

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGF0096-BS1)									
Prepared: 06-Jun-2018 Analyzed: 06-Jun-2018 13:44									
pH	7.03	0.01	0.01	pH Units	7.00	100	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:28

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2018
WA-DW	Ecology - Drinking Water	C558	06/30/2018



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:28

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

11 June 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18F0066

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington,
l=Tukwila, o=Analytical
Resources, Inc., ou=Client
Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.06.11 12:41:32 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Page 2 of 14 18F0066 ARISample FINAL 11 Jun 2018 1231



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-20B-060618	18F0066-01	Solid	06-Jun-2018 09:35	06-Jun-2018 15:28
SO-TC-20C-060618	18F0066-02	Solid	06-Jun-2018 09:45	06-Jun-2018 15:28



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:31

Case Narrative

Sample receipt

Samples as listed on the preceding page were received June 6, 2018 under ARI work order 18F0066. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry - pH by EPA Method 9045A

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 13F0066

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1528

27.3°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: Dees 206

Cooler Accepted by: JSW

Date: 06/06/18

Time: 1528

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES NO

Were all bottles sealed in individual plastic bags? _____

YES NO

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI _____

NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Set Date: 6/6/18 Time: 1539

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm	Peabubbles 2-4 mm	LARGE Air Bubbles > 4 mm	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
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Cooler Temperature Compliance Form

ARI Work Order: 18F0006

Cooler#: _____ Temperature(°C): 27.5°C

Sample ID	Bottle Count	Bottle Type
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Samples received above 6°C

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: JSW

Date: 06/06/18

Time: 1528

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:31

SO-TC-20B-060618
18F0066-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/06/2018 09:35

Instrument: ICP2

Analyzed: 08-Jun-2018 15:04

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0156 Sample Size: 25 mL (wet)
Prepared: 08-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.800	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:31

SO-TC-20B-060618
18F0066-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/06/2018 09:35

Instrument: Accumet AR60

Analyzed: 07-Jun-2018 08:44

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGF0119
Prepared: 07-Jun-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	11.3	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:31

SO-TC-20C-060618
18F0066-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/06/2018 09:45

Instrument: ICP2

Analyzed: 08-Jun-2018 15:08

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0156 Sample Size: 25 mL (wet)
Prepared: 08-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.409	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.133	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:31

SO-TC-20C-060618
18F0066-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/06/2018 09:45

Instrument: Accumet AR60

Analyzed: 07-Jun-2018 08:44

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BGF0119
Prepared: 07-Jun-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	11.0	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:31

TCLP Metals and Metallic Compounds - Quality Control

Batch BGF0156 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: EL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BGF0156-BLK1)					Prepared: 08-Jun-2018 Analyzed: 08-Jun-2018 14:55					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:31

Wet Chemistry - Quality Control

Batch BGF0119 - EPA 9045D

Instrument: Accumet AR60 Analyst: k

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGF0119-BS1)					Prepared: 07-Jun-2018 Analyzed: 07-Jun-2018 08:44				
pH	7.03	0.01	0.01	pH Units	7.00	100	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:31

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2018
WA-DW	Ecology - Drinking Water	C558	06/30/2018



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
11-Jun-2018 12:31

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

From: David Bosch
To: [Jeffrey D King](#)
Subject: RE: Data sheets for soils from Superlon Plastics Site
Date: Wednesday, June 20, 2018 10:10:08 AM

Jeff,

The Health Department has reviewed three lab data sets dated June 18, 2018. From this testing data submitted, this waste is acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



From: Jeffrey D King <jking@perc-nw.com>
Sent: Tuesday, June 19, 2018 11:30 AM
To: David Bosch <DBosch@tpchd.org>
Subject: Data sheets for soils from Superlon Plastics Site

David:

Attached are the latest set of laboratory data for the soil we hope to dispose of at LRI. The following table summarizes that data.

SAMPLE ID	ARSENIC CON. (TCLP in mg/kg)	LEAD CON. (TCLP in mg/kg)	pH	COMMENT
SO-TC-22A-061218	0.0472	ND	9.42	With TPCDH approval Haul to LRI
SO-TC-22B-061218	0.0649	ND	9.49	With TPCDH approval Haul to LRI
SO-TC-22C-061218	0.0883	ND	9.53	With TPCDH approval Haul to LRI
SO-TC-23A-061218	0.128	ND	8.73	With TPCDH approval Haul to LRI
SO-TC-23B-061218	0.0537	ND	9.18	With TPCDH approval Haul to LRI
SO-TC-24A-061318	0.915	0.0385	10.5	With TPCDH approval Haul to LRI

Thank you.

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

18 June 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18F0172

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client
Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.06.18 16:41:33 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18F0172	Turn-around Requested: 3 Day	Date: 6/12/2018
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 1
		Cooler Temps: 25.6



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics (WA)					Analysis Requested								Notes/Comments			
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	PH 9045C										
Sample ID	Date	Time	Matrix	No. Containers												
SO-TC-22A-061218	06/12/18	10:15	Soil	1	✓	✓										
SO-TC-22B-061218	06/12/18	10:25	Soil	1	✓	✓										
SO-TC-22C-061218	06/12/18	10:35	Soil	1	✓	✓										
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Stephanie Fisnel</i>			Relinquished by: (Signature)			Received by: (Signature)		
					Printed Name: Kenny King			Printed Name: Stephanie Fisnel			Printed Name:			Printed Name:		
					Company: PERC			Company: ARI			Company:			Company:		
					Date & Time: 6/12/18 16:41			Date & Time: 6/12/18 16:41			Date & Time:			Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-22A-061218	18F0172-01	Solid	12-Jun-2018 10:15	12-Jun-2018 16:41
SO-TC-22B-061218	18F0172-02	Solid	12-Jun-2018 10:25	12-Jun-2018 16:41
SO-TC-22C-061218	18F0172-03	Solid	12-Jun-2018 10:35	12-Jun-2018 16:41



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:31

Case Narrative

Sample receipt

Samples as listed on the preceding page were received June 12, 2018 under ARI work order 18F0172. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry (pH)

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Perc
COC No(s): _____ (NA)
Assigned ARI Job No: 18F0172

Project Name: Superior Plastics
Delivered by: Fed-Ex UPS Courier (Hand Delivered Other: _____)
Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES (NO)
Were custody papers included with the cooler? YES (YES) NO
Were custody papers properly filled out (ink, signed, etc.) YES (YES) NO
Temperature of Cooler(s) (°C) (recommended 2.0-5.0 °C for chemistry) 25.6
Time: 1641
If cooler temperature is out of compliance fill out form 00070F
Cooler Accepted by: Set Date: 6/12/18 Time: 1641 Temp Gun ID#: D00258

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES (NO)
Were all bottles sealed in individual plastic bags? YES (NO)
Did all bottles arrive in good condition (unbroken)? YES (YES) NO
Were all bottle labels complete and legible? YES (YES) NO
Did the number of containers listed on COC match with the number of containers received? YES (YES) NO
Did all bottle labels and tags agree with custody papers? YES (YES) NO
Were all bottles used correct for the requested analyses? YES (YES) NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES (NO)
Were all VOC vials free of air bubbles? NA YES (NO)
Was sufficient amount of sample sent in each bottle? YES (YES) NO
Date VOC Trip Blank was made at ARI: NA
Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Set Date: 6/12/18 Time: 1700

** Notify Project Manager of discrepancies or concerns **

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles - 2mm	Peabubbles 2-4 mm	LARGE Air Bubbles > 4 mm	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
------------------------------------	------------------------------	--	--



Cooler Temperature Compliance Form

ARI Work Order: 185072

Cooler#: _____ Temperature(°C): 25.6

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received
above 6°

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: Set

Date: 6/12/18

Time: 1641

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:31

SO-TC-22A-061218
18F0172-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/12/2018 10:15

Instrument: ICP2

Analyzed: 15-Jun-2018 11:50

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0333 Sample Size: 25 mL (wet)
Prepared: 14-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0472	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:31

SO-TC-22A-061218
18F0172-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/12/2018 10:15

Instrument: Orion115

Analyzed: 14-Jun-2018 15:20

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGF0320
Prepared: 14-Jun-2018

Sample Size: 9.42 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.02	0.02	9.42	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:31

SO-TC-22B-061218
18F0172-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/12/2018 10:25

Instrument: ICP2

Analyzed: 15-Jun-2018 11:55

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0333 Sample Size: 25 mL (wet)
Prepared: 14-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0649	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:31

SO-TC-22B-061218
18F0172-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/12/2018 10:25

Instrument: Orion115

Analyzed: 14-Jun-2018 15:20

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGF0320
Prepared: 14-Jun-2018

Sample Size: 9.49 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.02	0.02	9.49	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:31

SO-TC-22C-061218
18F0172-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/12/2018 10:35

Instrument: ICP2

Analyzed: 15-Jun-2018 11:59

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0333 Sample Size: 25 mL (wet)
Prepared: 14-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0883	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:31

SO-TC-22C-061218
18F0172-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/12/2018 10:35

Instrument: Orion115

Analyzed: 14-Jun-2018 15:20

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGF0320
Prepared: 14-Jun-2018

Sample Size: 9.53 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.02	0.02	9.53	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:31

TCLP Metals and Metallic Compounds - Quality Control

Batch BGF0333 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: EL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BGF0333-BLK1)									
Prepared: 14-Jun-2018 Analyzed: 15-Jun-2018 11:38									
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	0.0080	0.0065	0.100	mg/L					J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:31

Wet Chemistry - Quality Control

Batch BGF0320 - EPA 9045D

Instrument: Orion115 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGF0320-BS1)					Prepared: 14-Jun-2018 Analyzed: 14-Jun-2018 15:20				
pH	7.04	0.01	0.01	pH Units	7.00	101	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:31

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2018
WA-DW	Ecology - Drinking Water	C558	06/30/2018



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:31

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

18 June 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18F0171

Associated SDG ID(s)
N/A

**Shelly
Fishel**

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc.,
ou=Client Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.06.18 16:41:08 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18F0171		Turn-around Requested: 3 Day			Date: 6/12/2018		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)						
ARI Client Company: PERC		Phone: 425-346-0921			Page: of								
Client Contact: Kenny King					No. of Coolers: 1 Cooler Temps: 25.6								
Client Project Name: Superlon Plastics (WA)					Analysis Requested							Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	PH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-23A-061218	06/12/18	15:45	Soil	1	✓	✓							
SO-TC-23B-061218	06/12/18	16:00	Soil	1	✓	✓							
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Stephanie Fisher</i>			Relinquished by: (Signature)			Received by: (Signature)		
		Printed Name: <i>Kenny King</i>			Printed Name: <i>Stephanie Fisher</i>			Printed Name:			Printed Name:		
		Company: <i>PERC</i>			Company: <i>ARI</i>			Company:			Company:		
		Date & Time: <i>6/12/18 16:41</i>			Date & Time: <i>6/12/18 16:41</i>			Date & Time:			Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-23A-061218	18F0171-01	Solid	12-Jun-2018 15:45	12-Jun-2018 16:41
SO-TC-23B-061218	18F0171-02	Solid	12-Jun-2018 16:00	12-Jun-2018 16:41



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:33

Case Narrative

Sample receipt

Samples as listed on the preceding page were received June 12, 2018 under ARI work order 18F0171. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry (pH)

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: Perc
COC No(s): _____ (NA)
Assigned ARI Job No: 18F0171

Project Name: Superior Plastics
Delivered by: Fed-Ex UPS Courier (Hand Delivered) Other: _____
Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES (NO)
Were custody papers included with the cooler? YES (NO)
Were custody papers properly filled out (ink, signed, etc.) YES (NO)
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) Time: 1641 25.6
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DW256
Cooler Accepted by: Set Date: 6/12/18 Time: 1641

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? YES (NO)
Were all bottles sealed in individual plastic bags? YES (NO)
Did all bottles arrive in good condition (unbroken)? YES (NO)
Were all bottle labels complete and legible? YES (NO)
Did the number of containers listed on COC match with the number of containers received? YES (NO)
Did all bottle labels and tags agree with custody papers? YES (NO)
Were all bottles used correct for the requested analyses? YES (NO)
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES (NO)
Were all VOC vials free of air bubbles? NA YES (NO)
Was sufficient amount of sample sent in each bottle? YES (NO)
Date VOC Trip Blank was made at ARI... NA
Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Set Date: 6/12/18 Time: 1649

Notify Project Manager of discrepancies or concerns

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm	Peabubbles 2-4 mm	LARGE Air Bubbles > 4 mm	Small → "sm" (< 2 mm)
			Peabubbles → "pb" (2 to < 4 mm)
			Large → "lg" (4 to < 6 mm)
			Headspace → "hs" (> 6 mm)



ARI Work Order: 18F0171

Cooler#: _____ Temperature(°C): 25.6

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples removed
above 6°

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: Seif

Date: 6/12/18

Time: 1641

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:33

SO-TC-23A-061218
18F0171-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/12/2018 15:45

Instrument: ICP2

Analyzed: 15-Jun-2018 12:03

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0333 Sample Size: 25 mL (wet)
Prepared: 14-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.128	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:33

SO-TC-23A-061218
18F0171-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/12/2018 15:45

Instrument: Orion115

Analyzed: 14-Jun-2018 15:20

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGF0320
Prepared: 14-Jun-2018

Sample Size: 8.73 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.02	0.02	8.73	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:33

SO-TC-23B-061218
18F0171-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/12/2018 16:00

Instrument: ICP2

Analyzed: 15-Jun-2018 11:46

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0333 Sample Size: 25 mL (wet)
Prepared: 14-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0537	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:33

SO-TC-23B-061218
18F0171-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/12/2018 16:00

Instrument: Orion115

Analyzed: 14-Jun-2018 15:20

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGF0320
Prepared: 14-Jun-2018

Sample Size: 9.18 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.02	0.02	9.18	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:33

TCLP Metals and Metallic Compounds - Quality Control

Batch BGF0333 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: EL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGF0333-BLK1)						Prepared: 14-Jun-2018 Analyzed: 15-Jun-2018 11:38					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	0.0080	0.0065	0.100	mg/L							J
Duplicate (BGF0333-DUP1)						Source: 18F0171-01 Prepared: 14-Jun-2018 Analyzed: 15-Jun-2018 12:07					
Arsenic	0.126	0.0140	0.250	mg/L		0.128			1.58	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BGF0333-MS1)						Source: 18F0171-01 Prepared: 14-Jun-2018 Analyzed: 15-Jun-2018 12:12					
Arsenic	4.40	0.0140	0.250	mg/L	4.00	0.128	107	75-125			
Lead	4.01	0.0065	0.100	mg/L	4.00	ND	100	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:33

Wet Chemistry - Quality Control

Batch BGF0320 - EPA 9045D

Instrument: Orion115 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGF0320-BS1)					Prepared: 14-Jun-2018 Analyzed: 14-Jun-2018 15:20				
pH	7.04	0.01	0.01	pH Units	7.00	101	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:33

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2018
WA-DW	Ecology - Drinking Water	C558	06/30/2018



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:33

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

18 June 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18F0195

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client
Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.06.18 16:41:57 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Date:	6/13/2018
Page:	of
No. of Coolers:	Cooler Temps:



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics (WA)					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	PH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-24A-061318	06/13/18	09:15	Soil	1	✓	✓								
Comments/Special Instructions					Relinquished by: (Signature) [Signature]		Received by: (Signature) [Signature]		Relinquished by: (Signature)		Received by: (Signature)			
					Printed Name: JEFF KING		Printed Name: Brandon Fick		Printed Name:		Printed Name:			
					Company: PERC		Company: ARI		Company:		Company:			
					Date & Time: 6/13/18 15:00		Date & Time: 6/13/18 1500		Date & Time:		Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-24A-061318	18F0195-01	Solid	13-Jun-2018 09:15	13-Jun-2018 15:00



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:36

Case Narrative

Sample receipt

One sample as listed on the preceding page was received June 13, 2018 under ARI work order 18F0195. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry - pH

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Kenny King

COC No(s): _____ NA

Assigned ARI Job No: 18F0195

Project Name: Superbly Plastic

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? _____

YES ☐ NO ☒

Were custody papers included with the cooler? _____

YES ☒ NO ☐

Were custody papers properly filled out (ink, signed, etc.) _____

YES ☒ NO ☐

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time: 1500

26.3

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: D002565

Cooler Accepted by: BF

Date: 6/13/18

Time: 1500

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES ☐ NO ☒

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES ☒ NO ☒

Were all bottles sealed in individual plastic bags? _____

YES ☒ NO ☐

Did all bottles arrive in good condition (unbroken)? _____

YES ☒ NO ☐

Were all bottle labels complete and legible? _____

YES ☒ NO ☐

Did the number of containers listed on COC match with the number of containers received? _____

YES ☒ NO ☐

Did all bottle labels and tags agree with custody papers? _____

YES ☒ NO ☐

Were all bottles used correct for the requested analyses? _____

YES ☒ NO ☐

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA YES ☒ NO ☐

Were all VOC vials free of air bubbles? _____

NA YES ☒ NO ☐

Was sufficient amount of sample sent in each bottle? _____

YES ☒ NO ☐

Date VOC Trip Blank was made at ARI: _____

NA ☒

Was Sample Split by ARI: NA YES ☐ Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Set Date: 6/13/18 Time: 1551

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
---------------------------------------	---------------------------------	--	---



Cooler Temperature Compliance Form

ARI Work Order: 18F0195

Cooler#: _____ Temperature(°C): 26.3

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

<u>sample received</u>	<u>above 6°C</u>	

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: BF Date: 6/3/18 Time: 1500

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:36

SO-TC-24A-061318
18F0195-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/13/2018 09:15

Instrument: ICP2

Analyzed: 15-Jun-2018 15:03

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0379 Sample Size: 25 mL (wet)
Prepared: 15-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.915	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0385	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:36

SO-TC-24A-061318
18F0195-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/13/2018 09:15

Instrument: Orion115

Analyzed: 14-Jun-2018 15:20

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGF0320
Prepared: 14-Jun-2018

Sample Size: 10.47 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.02	0.02	10.5	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:36

TCLP Metals and Metallic Compounds - Quality Control

Batch BGF0379 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: EL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BGF0379-BLK1)					Prepared: 15-Jun-2018 Analyzed: 15-Jun-2018 14:54					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	0.0102	0.0065	0.100	mg/L						J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:36

Wet Chemistry - Quality Control

Batch BGF0320 - EPA 9045D

Instrument: Orion115 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BGF0320-BS1)										
					Prepared: 14-Jun-2018		Analyzed: 14-Jun-2018 15:20			
pH	7.04	0.01	0.01	pH Units	7.00	101	0-200			
Duplicate (BGF0320-DUP1)										
		Source: 18F0195-01			Prepared: 14-Jun-2018		Analyzed: 14-Jun-2018 15:20			
pH	10.5	0.02	0.02	pH Units	10.5			0.19	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:36

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2018
WA-DW	Ecology - Drinking Water	C558	06/30/2018



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: TCLP
Project Manager: Kenny King

Reported:
18-Jun-2018 16:36

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Laboratory Data sheets for soil we hope to dispose of at LRI

From David Bosch <DBosch@tpchd.org>

Date Tue 7/3/2018 7:48 AM

To jking perc-nw.com <jking@perc-nw.com>

Cc kking perc-nw.com <kking@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

Jeffrey,

Sorry for the delay in my response. I was on vacation last week.

The Tacoma-Pierce County Health Department has reviewed the testing results dated June 22 and June 25, 2018. The soils characterizing these results are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Tuesday, June 26, 2018 7:49 AM

To: David Bosch <DBosch@tpchd.org>

Cc: kking@perc-nw.com; grimstedb@uspioneer.com

Subject: Laboratory Data sheets for soil we hope to dispose of at LRI

David:

Attached are the latest laboratory data sheets for soil we hope to dispose of at LRI. The following table lists the results.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-25A-061818	0.0583	ND	9.46
SO-TC-25B-061818	0.0634	ND	9.59
SO-TC-26A-062018	0.0844	ND	9.81
SO-TC-26B-062018	0.0543	ND	9.76

SO-TC-26C-062018	0.0411	ND	9.73
------------------	--------	----	------

Thank you.

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

22 June 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18F0268

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18F0268	Turn-around Requested: 3 Day	Date: 6/18/18
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 1
		Cooler Temps: 32.7



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics (WA)					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	PH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-25A-061818	06/18/18	09:15	Soil	1	✓	✓								
SO-TC-25B-061818	06/18/18	09:25	Soil	1	✓	✓								
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>A. Volgardsen</i>		Relinquished by: (Signature)		Received by: (Signature)			
					Printed Name: <i>Kenny King</i>		Printed Name: <i>A. Volgardsen</i>		Printed Name:		Printed Name:			
					Company: <i>PERC</i>		Company: <i>ARI</i>		Company:		Company:			
					Date & Time: <i>6/18/18 16:05</i>		Date & Time: <i>6/18/18 16:05</i>		Date & Time:		Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2018 15:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-25A-061818	18F0268-01	Solid	18-Jun-2018 09:15	18-Jun-2018 16:05
SO-TC-25B-061818	18F0268-02	Solid	18-Jun-2018 09:25	18-Jun-2018 16:05



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2018 15:24

Case Narrative

Sample receipt

Samples as listed on the preceding page were received June 18, 2018 under ARI work order 18F0268. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry - pH

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superion Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier (Hand Delivered Other: _____)

Assigned ARI Job No: 18F0268

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES ☐ NO ☒

Were custody papers included with the cooler? _____

YES ☒ NO ☐

Were custody papers properly filled out (ink, signed, etc.) _____

YES ☒ NO ☐

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 32.7

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: D002905

Cooler Accepted by: Av Date: 6/18/18 Time: 1605

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES ☐ NO ☒

What kind of packing material was used? _____ Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA ☒ YES ☐ NO ☐

Were all bottles sealed in individual plastic bags? _____

YES ☒ NO ☐

Did all bottles arrive in good condition (unbroken)? _____

YES ☒ NO ☐

Were all bottle labels complete and legible? _____

YES ☒ NO ☐

Did the number of containers listed on COC match with the number of containers received? _____

YES ☒ NO ☐

Did all bottle labels and tags agree with custody papers? _____

YES ☒ NO ☐

Were all bottles used correct for the requested analyses? _____

YES ☒ NO ☐

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) _____

NA ☒ YES ☐ NO ☐

Were all VOC vials free of air bubbles? _____

NA ☒ YES ☐ NO ☐

Was sufficient amount of sample sent in each bottle? _____

YES ☒ NO ☐

Date VOC Trip Blank was made at ARI: _____

NA ☒

Was Sample Split by ARI: ☒ YES ☐ Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Set Date: 6/18/18 Time: 1624

** Notify Project Manager of discrepancies or concerns **

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:
Sample labels smeared away

By: Set Date: 6/18/18

Small Air Bubbles ~ 2mm 	Pea bubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Pea bubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
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PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2018 15:24

SO-TC-25A-061818
18F0268-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/18/2018 09:15

Instrument: ICP2

Analyzed: 21-Jun-2018 11:29

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0492 Sample Size: 25 mL (wet)
Prepared: 20-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0583	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2018 15:24

SO-TC-25A-061818
18F0268-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/18/2018 09:15

Instrument: Accumet AR60

Analyzed: 22-Jun-2018 09:23

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BGF0549
Prepared: 22-Jun-2018

Sample Size: 20.16 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.46	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2018 15:24

SO-TC-25B-061818
18F0268-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/18/2018 09:25

Instrument: ICP2

Analyzed: 21-Jun-2018 11:33

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0492 Sample Size: 25 mL (wet)
Prepared: 20-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0634	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2018 15:24

SO-TC-25B-061818
18F0268-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/18/2018 09:25

Instrument: Accumet AR60

Analyzed: 22-Jun-2018 09:23

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGF0549
Prepared: 22-Jun-2018

Sample Size: 20.33 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.59	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2018 15:24

TCLP Metals and Metallic Compounds - Quality Control

Batch BGF0492 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: ICP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BGF0492-BLK1)					Prepared: 20-Jun-2018 Analyzed: 21-Jun-2018 11:25					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2018 15:24

Wet Chemistry - Quality Control

Batch BGF0549 - EPA 9045D

Instrument: Accumet AR60 Analyst: k

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BGF0549-BS1)										
						Prepared: 22-Jun-2018 Analyzed: 22-Jun-2018 09:23				
pH	7.02	0.01	0.01	pH Units	7.00	100	0-200			
Duplicate (BGF0549-DUP1)										
		Source: 18F0268-01				Prepared: 22-Jun-2018 Analyzed: 22-Jun-2018 09:23				
pH	9.51	0.01	0.01	pH Units	9.46			0.53	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2018 15:24

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2018
WA-DW	Ecology - Drinking Water	C558	06/30/2018



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2018 15:24

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

25 June 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18F0305

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18F0305	Turn-around Requested: 2 Day	Date: 6/20/18
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 1 Cooler Temps: 27.9



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments		
Client Project #: SLON		Samplers: King			TCLP 1311 AS/Pb Only	PH 9045C									
Sample ID	Date	Time	Matrix	No. Containers											
SO-TC-26A-062018	06/20/18	11:15	Soil	1	✓	✓									
SO-TC-26B-062018	06/20/18	11:25	Soil	1	✓	✓									
SO-TC-26C-062018	06/20/18	11:35	Soil	1	✓	✓									
Comments/Special Instructions					Relinquished by: (Signature) <i>[Signature]</i>			Received by: (Signature) <i>[Signature]</i>			Relinquished by: (Signature)			Received by: (Signature)	
					Printed Name: JEFF KING			Printed Name: Stephanie Fismu			Printed Name:			Printed Name:	
					Company: PERC			Company: ARI			Company:			Company:	
					Date & Time: 6/20/18 3:17 PM			Date & Time: 6/20/18 15:17			Date & Time:			Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jun-2018 16:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-26A-062018	18F0305-01	Solid	20-Jun-2018 11:15	20-Jun-2018 15:17
SO-TC-26B-062018	18F0305-02	Solid	20-Jun-2018 11:25	20-Jun-2018 15:17
SO-TC-26C-062018	18F0305-03	Solid	20-Jun-2018 11:35	20-Jun-2018 15:17



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jun-2018 16:04

Case Narrative

Sample receipt

Samples as listed on the preceding page were received June 20, 2018 under ARI work order 18F0305. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry (pH)

There were no analytical complications noted.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: Perc

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 18F0305

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES YES NO

Were custody papers properly filled out (ink, signed, etc) YES YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1517

27.9

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# D002508

Cooler Accepted by: Self Date: 6/20/16 Time: 1517

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Self Date: 6/20/16 Time: 1536

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

Labels are smeared away

By: Self Date: 6/20/16

Small Air Bubbles ~ 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
---------------------------------------	---------------------------------	--	---



Cooler Temperature Compliance Form

ARI Work Order: 18F0305

Cooler#: _____ Temperature(°C): 27.9

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received
above 6°

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: See

Date: 6/20/18 Time: 1517

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jun-2018 16:04

SO-TC-26A-062018
18F0305-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/20/2018 11:15

Instrument: ICP2

Analyzed: 22-Jun-2018 14:32

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0555 Sample Size: 25 mL (wet)
Prepared: 22-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0844	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jun-2018 16:04

SO-TC-26A-062018
18F0305-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/20/2018 11:15

Instrument: Accumet AR60

Analyzed: 22-Jun-2018 09:23

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BGF0549 Sample Size: 20.05 g (wet)
Prepared: 22-Jun-2018 Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.81	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jun-2018 16:04

SO-TC-26B-062018
18F0305-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/20/2018 11:25

Instrument: ICP2

Analyzed: 22-Jun-2018 14:23

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0555 Sample Size: 25 mL (wet)
Prepared: 22-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0543	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jun-2018 16:04

SO-TC-26B-062018
18F0305-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/20/2018 11:25

Instrument: Accumet AR60

Analyzed: 22-Jun-2018 09:23

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGF0549
Prepared: 22-Jun-2018

Sample Size: 20.06 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.76	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jun-2018 16:04

SO-TC-26C-062018
18F0305-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/20/2018 11:35

Instrument: ICP2

Analyzed: 22-Jun-2018 14:28

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGF0555 Sample Size: 25 mL (wet)
Prepared: 22-Jun-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0411	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jun-2018 16:04

SO-TC-26C-062018
18F0305-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/20/2018 11:35

Instrument: Accumet AR60

Analyzed: 22-Jun-2018 09:23

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGF0549
Prepared: 22-Jun-2018

Sample Size: 20.05 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.73	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jun-2018 16:04

TCLP Metals and Metallic Compounds - Quality Control

Batch BGF0555 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: EL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGF0555-BLK1)						Prepared: 22-Jun-2018 Analyzed: 22-Jun-2018 14:19					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BGF0555-DUP1)						Source: 18F0305-01 Prepared: 22-Jun-2018 Analyzed: 22-Jun-2018 14:36					
Arsenic	0.0649	0.0140	0.250	mg/L		0.0844			26.10	20	L, J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BGF0555-MS1)						Source: 18F0305-01 Prepared: 22-Jun-2018 Analyzed: 22-Jun-2018 14:40					
Arsenic	4.43	0.0140	0.250	mg/L	4.00	0.0844	109	75-125			
Lead	4.10	0.0065	0.100	mg/L	4.00	ND	102	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jun-2018 16:04

Wet Chemistry - Quality Control

Batch BGF0549 - EPA 9045D

Instrument: Accumet AR60 Analyst: k

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGF0549-BS1)									
Prepared: 22-Jun-2018 Analyzed: 22-Jun-2018 09:23									
pH	7.02	0.01	0.01	pH Units	7.00	100	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jun-2018 16:04

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2018
WA-DW	Ecology - Drinking Water	C558	06/30/2018



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jun-2018 16:04

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Laboratory Data sheets for soil we hope to dispose of at LRI

From David Bosch <DBosch@tpchd.org>

Date Mon 7/16/2018 10:04 AM

To jking perc-nw.com <jking@perc-nw.com>

Cc grimstedb@uspioneer.com <grimstedb@uspioneer.com>; kking perc-nw.com <kking@perc-nw.com>; sduggan perc-nw.com <sduggan@perc-nw.com>

Good morning Jeff,

The Health Department has reviewed the four lab data sets dated July 06 and 09, 2018. From this testing data submitted, this waste is acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org] www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Monday, July 9, 2018 1:56 PM

To: David Bosch <DBosch@tpchd.org>

Cc: grimstedb@uspioneer.com; kking@perc-nw.com; Steve Duggan <sduggan@perc-nw.com>

Subject: Laboratory Data sheets for soil we hope to dispose of at LRI

David:

Attached are the latest laboratory data sheets for soil we hope to dispose of at LRI. The following table lists the results.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-27A-062618	0.0779	ND	9.64
SO-TC-27B-062618	0.061	ND	9.68
SO-TC-27C-062618	0.0619	ND	9.68
SO-TC-28A-062718	0.0645	ND	9.67

SO-TC-28B-062718	0.0932	ND	9.64
SO-TC-28C-062718	0.0665	ND	9.86
SO-TC-29A-062718	1.48	ND	10.3
SO-TC-29B-062718	0.733	ND	10.2
SO-TC-29C-062718	1.12	ND	10.4
SO-TC-30A-070218	0.143	0.0077	7.58

Thank you
Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

06 July 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18F0382

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18F0387		Turn-around Requested: 5 Day			Date: 6/26/2018		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)															
ARI Client Company: PERC		Phone: 425-346-0921			Page: of																	
Client Contact: Kenny King					No. of Coolers: 2 Cooler Temps: 24.3°C																	
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments										
Client Project #: SLON		Samplers: King			TCLP 1311 AS/Pb Only PH 9045C																	
Sample ID	Date	Time	Matrix	No. Containers																		
SO-TC-27A-062618	06/26/18	09:35	Soil	1										✓	✓							
SO-TC-27B-062618	06/26/18	09:45	Soil	1										✓	✓							
SO-TC-27C-062618	06/26/18	09:55	Soil	1										✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Barob walte</i>		Relinquished by: (Signature)		Received by: (Signature)											
					Printed Name: Kenny King		Printed Name: Barob walte		Printed Name:		Printed Name:											
					Company: PERC		Company: ARI		Company:		Company:											
					Date & Time: 6/26/18 15:01		Date & Time: 06/26/18 1501		Date & Time:		Date & Time:											

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-27A-062618	18F0382-01	Solid	26-Jun-2018 09:35	26-Jun-2018 15:01
SO-TC-27B-062618	18F0382-02	Solid	26-Jun-2018 09:45	26-Jun-2018 15:01
SO-TC-27C-062618	18F0382-03	Solid	26-Jun-2018 09:55	26-Jun-2018 15:01



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:46

Case Narrative

Sample receipt

Samples as listed on the preceding page were received June 26, 2018 under ARI work order 18F0382. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERL

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier ~~Hand Delivered~~ Other: _____

Assigned ARI Job No: 16F0382

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time: 1501

24.32

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: D005706

Cooler Accepted by: JSW Date: 06/26/18 Time: 1501

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES NO

Were all bottles sealed in individual plastic bags? _____

YES NO

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI: _____

NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JSF Date: 06/26/18 Time: 1520

****Notify Project Manager of discrepancies or concerns****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions: ink smeared away on labels

By: JSF Date: 06/26/18

Small Air Bubbles ~2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (<2 mm) Peabubbles → "pb" (2 to <4 mm) Large → "lg" (4 to <6 mm) Headspace → "hs" (>6 mm)
--------------------------------------	---------------------------------	--	---



Cooler Temperature Compliance Form

ARI Work Order: 18F0382

Cooler#: _____ Temperature(°C): 24.3°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received at 6°C

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: [Signature]

Date: 10/10/18

Time: 16:51

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:46

SO-TC-27A-062618
18F0382-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/26/2018 09:35

Instrument: ICP2

Analyzed: 03-Jul-2018 15:23

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0041 Sample Size: 25 mL (wet)
Prepared: 03-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0779	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:46

SO-TC-27A-062618
18F0382-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/26/2018 09:35

Instrument: DX2100

Analyzed: 05-Jul-2018 14:27

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0097
Prepared: 05-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.64	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:46

SO-TC-27B-062618
18F0382-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/26/2018 09:45

Instrument: ICP2

Analyzed: 03-Jul-2018 15:02

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0041 Sample Size: 25 mL (wet)
Prepared: 03-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0610	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:46

SO-TC-27B-062618
18F0382-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/26/2018 09:45

Instrument: DX2100

Analyzed: 05-Jul-2018 14:27

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0097
Prepared: 05-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.68	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:46

SO-TC-27C-062618
18F0382-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/26/2018 09:55

Instrument: ICP2

Analyzed: 03-Jul-2018 15:06

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0041 Sample Size: 25 mL (wet)
Prepared: 03-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0619	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:46

SO-TC-27C-062618
18F0382-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/26/2018 09:55

Instrument: DX2100

Analyzed: 05-Jul-2018 14:27

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0097
Prepared: 05-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.68	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:46

TCLP Metals and Metallic Compounds - Quality Control

Batch BGG0041 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGG0041-BLK1)						Prepared: 03-Jul-2018 Analyzed: 03-Jul-2018 14:53					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BGG0041-DUP1)						Source: 18F0382-01 Prepared: 03-Jul-2018 Analyzed: 03-Jul-2018 15:28					
Arsenic	0.0879	0.0140	0.250	mg/L		0.0779			12.10	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BGG0041-MS1)						Source: 18F0382-01 Prepared: 03-Jul-2018 Analyzed: 03-Jul-2018 15:32					
Arsenic	4.38	0.0140	0.250	mg/L	4.00	0.0779	108	75-125			
Lead	4.06	0.0065	0.100	mg/L	4.00	ND	101	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:46

Wet Chemistry - Quality Control

Batch BGG0097 - EPA 9045D

Instrument: DX2100 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BGG0097-BS1)										
Prepared: 05-Jul-2018 Analyzed: 05-Jul-2018 14:27										
pH	7.00	0.01	0.01	pH Units	7.00	100	0-200			
Duplicate (BGG0097-DUP1)										
Source: 18F0382-01 Prepared: 05-Jul-2018 Analyzed: 05-Jul-2018 14:27										
pH	9.69	0.01	0.01	pH Units	9.64			0.52	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:46

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2018
WA-DW	Ecology - Drinking Water	C558	06/30/2018



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:46

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

06 July 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18F0400

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18F0400		Turn-around Requested: 5 Day			Date: 6/27/2018		
ARI Client Company: PERC		Phone: 425-346-0921			Page: of		
Client Contact: Kenny King					No. of Coolers: Cooler Temps:		
Client Project Name: Superlon Plastics					Analysis Requested		
Client Project #: SLON		Samplers: King			Notes/Comments		
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 AS/PB Only	PH 9045C	
SO-TC-28A-062718	06/27/18	09:27	Soil	1	✓	✓	
SO-TC-28B-062718	06/27/18	09:36	Soil	1	✓	✓	
SO-TC-28C-062718	06/27/18	09:47	Soil	1	✓	✓	
Comments/Special Instructions		Relinquished by: (Signature) <i>[Signature]</i>		Received by: (Signature) <i>[Signature]</i>		Relinquished by: (Signature) <i>[Signature]</i>	
		Printed Name: JEFF KING		Printed Name: Brandon Fisk		Printed Name:	
		Company: PERC		Company: ARI		Company:	
		Date & Time: 6/27/18 3:38 PM		Date & Time: 6/27/18 15:38		Date & Time:	



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-28A-062718	18F0400-01	Solid	27-Jun-2018 09:27	27-Jun-2018 15:38
SO-TC-28B-062718	18F0400-02	Solid	27-Jun-2018 09:36	27-Jun-2018 15:38
SO-TC-28C-062718	18F0400-03	Solid	27-Jun-2018 09:47	27-Jun-2018 15:38



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:50

Case Narrative

Sample receipt

Samples as listed on the preceding page were received June 26, 2018 under ARI work order 18F0382. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 18F0400

Tracking No. _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1538 24.3 Temp Gun ID#: 1002585

If cooler temperature is out of compliance fill out form 00070F

Cooler Accepted by: BF Date: 6/27/18 Time: 1538

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Was Sample Split by ARI NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Seif Date: 6/27/18 Time: 1552

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions: Labels are illegible. INK IS Smeared away.

By: Seif Date: 6/27/18

Small Air Bubbles ~2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
--------------------------------------	---------------------------------	--	---



Cooler Temperature Compliance Form

ARI Work Order: 18F0400

Cooler#: _____ Temperature(°C): 24.3

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

<u>samples received above</u>	<u>6°C</u>	

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: _____ Date: 1/2/10 Time: 1530

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:50

SO-TC-28A-062718
18F0400-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/27/2018 09:27

Instrument: ICP2

Analyzed: 03-Jul-2018 15:11

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0041 Sample Size: 25 mL (wet)
Prepared: 03-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0645	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:50

SO-TC-28A-062718
18F0400-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/27/2018 09:27

Instrument: DX2100

Analyzed: 05-Jul-2018 14:27

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0097
Prepared: 05-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.67	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:50

SO-TC-28B-062718
18F0400-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/27/2018 09:36

Instrument: ICP2

Analyzed: 03-Jul-2018 15:15

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0041 Sample Size: 25 mL (wet)
Prepared: 03-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0932	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:50

SO-TC-28B-062718
18F0400-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/27/2018 09:36

Instrument: DX2100

Analyzed: 05-Jul-2018 14:27

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0097
Prepared: 05-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.64	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:50

SO-TC-28C-062718
18F0400-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/27/2018 09:47

Instrument: ICP2

Analyzed: 03-Jul-2018 15:19

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0041 Sample Size: 25 mL (wet)
Prepared: 03-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0665	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:50

SO-TC-28C-062718
18F0400-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/27/2018 09:47

Instrument: DX2100

Analyzed: 05-Jul-2018 14:27

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0097
Prepared: 05-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.86	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:50

TCLP Metals and Metallic Compounds - Quality Control

Batch BGG0041 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGG0041-BLK1)						Prepared: 03-Jul-2018 Analyzed: 03-Jul-2018 14:53					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:50

Wet Chemistry - Quality Control

Batch BGG0097 - EPA 9045D

Instrument: DX2100 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGG0097-BS1)									
Prepared: 05-Jul-2018 Analyzed: 05-Jul-2018 14:27									
pH	7.00	0.01	0.01	pH Units	7.00	100	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:50

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2018
WA-DW	Ecology - Drinking Water	C558	06/30/2018



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2018 15:50

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

09 July 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18G0023

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 1860023	Turn-around Requested: 3 Day
--	-------------------------------------

ARI Client Company: PERC	Phone: 425-346-0921
------------------------------------	----------------------------

Client Contact: Kenny King

Client Project Name: Superlon Plastics
--

Client Project #: SLON	Samplers: King
-------------------------------	-----------------------

Sample ID	Date	Time	Matrix	No. Containers
SO-TC-29A-070218	07/02/18	15:10	Soil	1
SO-TC-29B-070218	07/02/18	15:20	Soil	1
SO-TC-29C-070218	07/02/18	15:30	Soil	1

Date: 7/2/2018

Page: of

No. of Coolers:	Cooler Temps:
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Analysis Requested								Notes/Comments	
TCLP 1311 AS/Pb Only	PH 9045C								
✓	✓								
✓	✓								
✓	✓								

Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>	Received by: (Signature) <i>Stephanie Fisher</i>	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Kenny King	Printed Name: Stephanie Fisher	Printed Name:	Printed Name:
	Company: PERC	Company: ARI	Company:	Company:
	Date & Time: 7/2/18 16:26	Date & Time: 7/2/18 11:26	Date & Time:	Date & Time:



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-29A-070218	18G0023-01	Solid	02-Jul-2018 15:10	02-Jul-2018 16:26
SO-TC-29B-070218	18G0023-02	Solid	02-Jul-2018 15:20	02-Jul-2018 16:26
SO-TC-29C-070218	18G0023-03	Solid	02-Jul-2018 15:30	02-Jul-2018 16:26



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:29

Case Narrative

Sample receipt

The samples as listed on the preceding page was received July 2, 2018 under ARI work order 18G0023 For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry- pH

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Pesc

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 18620023

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) _____

Time: _____

25.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DO02565

Cooler Accepted by: Set

Date: 7/2/10

Time: 1626

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES NO

Were all bottles sealed in individual plastic bags? _____

YES NO

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI: _____

NA

Was Sample Split by ARI: NA YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: Set

Date: 7/2/10

Time: 1650

**** Notify Project Manager of discrepancies or concerns ****

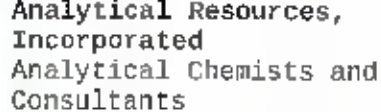
Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm	Peabubbles 2-4 mm	LARGE Air Bubbles > 4 mm

Small → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)



Cooler Temperature Compliance Form

Completed by: Q. L. Date: 11/2/13 Time: 10:16

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:29

SO-TC-29A-070218
18G0023-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/02/2018 15:10

Instrument: ICP2

Analyzed: 06-Jul-2018 16:17

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0110 Sample Size: 25 mL (wet)
Prepared: 06-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	1.48	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:29

SO-TC-29A-070218
18G0023-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/02/2018 15:10

Instrument: DX2100

Analyzed: 05-Jul-2018 14:27

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0097
Prepared: 05-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.3	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:29

SO-TC-29B-070218
18G0023-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/02/2018 15:20

Instrument: ICP2

Analyzed: 06-Jul-2018 16:21

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0110 Sample Size: 25 mL (wet)
Prepared: 06-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.733	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:29

SO-TC-29B-070218
18G0023-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/02/2018 15:20

Instrument: DX2100

Analyzed: 05-Jul-2018 14:27

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0097
Prepared: 05-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.2	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:29

SO-TC-29C-070218
18G0023-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/02/2018 15:30

Instrument: ICP2

Analyzed: 06-Jul-2018 16:25

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0110 Sample Size: 25 mL (wet)
Prepared: 06-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	1.12	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:29

SO-TC-29C-070218
18G0023-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/02/2018 15:30

Instrument: DX2100

Analyzed: 05-Jul-2018 14:27

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0097
Prepared: 05-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.4	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:29

TCLP Metals and Metallic Compounds - Quality Control

Batch BGG0110 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BGG0110-BLK1)					Prepared: 06-Jul-2018 Analyzed: 06-Jul-2018 16:08				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	0.0101	0.0065	0.100	mg/L					J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:29

Wet Chemistry - Quality Control

Batch BGG0097 - EPA 9045D

Instrument: DX2100 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGG0097-BS1)									
Prepared: 05-Jul-2018 Analyzed: 05-Jul-2018 14:27									
pH	7.00	0.01	0.01	pH Units	7.00	100	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:29

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2018
WA-DW	Ecology - Drinking Water	C558	06/30/2018



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:29

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

09 July 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18G0022

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 1850022		Turn-around Requested: 3 Day			Date: 7/2/2018		
ARI Client Company: PERC		Phone: 425-346-0921			Page: of		
Client Contact: Kenny King					No. of Coolers: Cooler Temps:		
Client Project Name: Superlon Plastics					Analysis Requested		
Client Project #: SLON		Samplers: King			Notes/Comments		
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 AS/Pb Only	PH 9045C	
SO-TC-30A-070218	07/02/18	13:50	Soil	1	✓	✓	
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i> Printed Name: Kenny King Company: PERC Date & Time: 7/2/18 16:26		Received by: (Signature) <i>Stephanie Fisher</i> Printed Name: Stephanie Fisher Company: ARI Date & Time: 7/2/18 1626		Relinquished by: (Signature) Printed Name: Company: Date & Time:	



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-30A-070218	18G0022-01	Solid	02-Jul-2018 13:50	02-Jul-2018 16:26



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:27

Case Narrative

Sample receipt

One sample as listed on the preceding page was received July 2, 2018 under ARI work order 18G0022 For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry- pH

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Pesc

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 1860022

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 25.6

Time: _____

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: D007565

Cooler Accepted by: Set Date: 7/2/10 Time: 1626

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Set Date: 7/2/10 Time: 1647

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Small → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)



ARI Work Order: 186022

Cooler#: _____ Temperature(°C): 25.6

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received
above 6°

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: SCJ

Date: 7/2/18

Time: 1626

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:27

SO-TC-30A-070218
18G0022-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/02/2018 13:50

Instrument: ICP2

Analyzed: 06-Jul-2018 16:12

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0110 Sample Size: 25 mL (wet)
Prepared: 06-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.143	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0077	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:27

SO-TC-30A-070218
18G0022-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/02/2018 13:50

Instrument: DX2100

Analyzed: 05-Jul-2018 14:27

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0097
Prepared: 05-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.58	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:27

TCLP Metals and Metallic Compounds - Quality Control

Batch BGG0110 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BGG0110-BLK1)					Prepared: 06-Jul-2018 Analyzed: 06-Jul-2018 16:08					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	0.0101	0.0065	0.100	mg/L						J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:27

Wet Chemistry - Quality Control

Batch BGG0097 - EPA 9045D

Instrument: DX2100 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGG0097-BS1)									
Prepared: 05-Jul-2018 Analyzed: 05-Jul-2018 14:27									
pH	7.00	0.01	0.01	pH Units	7.00	100	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:27

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2018
WA-DW	Ecology - Drinking Water	C558	06/30/2018



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2018 13:27

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

From: David Bosch
To: [Jeffrey D King](#)
Subject: RE: Laboratory Data sheets for soil we hope to dispose of at LRI
Date: Thursday, July 19, 2018 7:55:54 AM

Jeff,

Thank you for the note on the sample anomaly.

The Health Department has reviewed the two data sets dated July 16th. From the sample results provided, these soils are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



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From: Jeffrey D King <jking@perc-nw.com>
Sent: Thursday, July 19, 2018 7:20 AM
To: David Bosch <DBosch@tpchd.org>
Cc: grimstedb@uspioneer.com; kking@perc-nw.com; Steve Duggan <sduggan@perc-nw.com>
Subject: Laboratory Data sheets for soil we hope to dispose of at LRI

David:

Attached are the latest laboratory data sheets for soil we hope to dispose of at LRI. The following table lists the results. We do have one questionable sample (20CY of soil). That soil is represented by SO-TC-31B-071018. Whereas it is under the TCLP criteria of 5mg/l I wanted to point it out to you for any instructions you may have.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-31A-071018	0.219	ND	9.68
SO-TC-31B-071018	4.38	4.02	9.69
SO-TC-31C-071018	0.141	ND	9.74
SO-TC-32A-071118	0.0325	ND	9.58
SO-TC-32B-071118	0.0494	ND	9.63
SO-TC-32C-071118	0.0388	ND	9.7

Thank you
Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

Jeffrey D. King, P.G.

Principal/President

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

16 July 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18G0095

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client
Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.07.16 16:36:33 -0700

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclosed Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18G00915		Turn-around Requested: 3 Day			Date: 7/10/2018			 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)						
ARI Client Company: PERC		Phone: 425-346-0921			Page: of									
Client Contact: Kenny King					No. of Coolers: of									
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments		
Client Project #: SLON		Samplers: King			TCLP 1311 AS/Pb Only	PH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-31A-071018	07/10/18	08:25	Soil	1			✓	✓						
SO-TC-31B-071018	07/10/18	08:35	Soil	1			✓	✓						
SO-TC-31C-071018	07/10/18	08:45	Soil	1	✓	✓								
Comments/Special Instructions		Relinquished by:			Received by:			Relinquished by:			Received by:			
		(Signature) <i>Kenny King</i>			(Signature) <i>Jasmine Bowman</i>			(Signature)			(Signature)			
		Printed Name: Kenny King			Printed Name: Jasmine Bowman			Printed Name:			Printed Name:			
		Company: PERC			Company: ARI			Company:			Company:			
		Date & Time: 7/10/18 11:15			Date & Time: 7/10/18 11:15			Date & Time:			Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-31A-071018	18G0095-01	Solid	10-Jul-2018 08:25	10-Jul-2018 11:15
SO-TC-31B-071018	18G0095-02	Solid	10-Jul-2018 08:35	10-Jul-2018 11:15
SO-TC-31C-071018	18G0095-03	Solid	10-Jul-2018 08:45	10-Jul-2018 11:15



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:27

Case Narrative

Sample receipt

Samples as listed on the preceding page were received July 10, 2018 under ARI work order 18G0095. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD were within control limits.

The MS percent recoveries were outside advisory limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier (Hand Delivered) Other: _____

Assigned ARI Job No: 1860095

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?

YES NO

Were custody papers included with the cooler?

YES NO

Were custody papers properly filled out (ink, signed, etc.)

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: _____

22.4°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: POO 2565

Cooler Accepted by: JB Date: 7/20/18 Time: 1115

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?

YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)?

NA YES NO

Were all bottles sealed in individual plastic bags?

YES NO

Did all bottles arrive in good condition (unbroken)?

YES NO

Were all bottle labels complete and legible?

YES NO

Did the number of containers listed on COC match with the number of containers received?

YES NO

Did all bottle labels and tags agree with custody papers?

YES NO

Were all bottles used correct for the requested analyses?

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA YES NO

Were all VOC vials free of air bubbles?

NA YES NO

Was sufficient amount of sample sent in each bottle?

YES NO

Date VOC Trip Blank was made at ARI:

NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JB Date: 7/10/18 Time: 1235

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
---------------------------------------	---------------------------------	--	---



Cooler Temperature Compliance Form

ARI Work Order: 186-0095

Cooler#: NA Temperature(°C): 22.4°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples not received in cooler, out of temp.

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: JB Date: 7/10/18 Time: 1115



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:27

SO-TC-31A-071018
18G0095-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/10/2018 08:25

Instrument: ICP2

Analyzed: 12-Jul-2018 17:23

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0266 Sample Size: 25 mL (wet)
Prepared: 12-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.219	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:27

SO-TC-31A-071018
18G0095-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/10/2018 08:25

Instrument: Accumet AR60

Analyzed: 12-Jul-2018 17:24

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0286
Prepared: 12-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.68	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:27

SO-TC-31B-071018
18G0095-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/10/2018 08:35

Instrument: ICP2

Analyzed: 12-Jul-2018 17:14

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0266 Sample Size: 25 mL (wet)
Prepared: 12-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	4.38	mg/L	
Lead	7439-92-1	5	0.0065	0.100	4.02	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:27

SO-TC-31B-071018
18G0095-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/10/2018 08:35

Instrument: Accumet AR60

Analyzed: 12-Jul-2018 17:24

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0286
Prepared: 12-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.69	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:27

SO-TC-31C-071018
18G0095-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/10/2018 08:45

Instrument: ICP2

Analyzed: 12-Jul-2018 17:19

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0266 Sample Size: 25 mL (wet)
Prepared: 12-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.141	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:27

SO-TC-31C-071018
18G0095-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/10/2018 08:45

Instrument: Accumet AR60

Analyzed: 12-Jul-2018 17:24

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0286
Prepared: 12-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.74	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:27

TCLP Metals and Metallic Compounds - Quality Control

Batch BGG0266 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGG0266-BLK1)						Prepared: 12-Jul-2018 Analyzed: 12-Jul-2018 17:00					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BGG0266-DUP1)						Source: 18G0095-01 Prepared: 12-Jul-2018 Analyzed: 12-Jul-2018 17:27					
Arsenic	0.163	0.0140	0.250	mg/L		0.219			29.70	20	L, J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BGG0266-MS1)						Source: 18G0095-01 Prepared: 12-Jul-2018 Analyzed: 12-Jul-2018 17:31					
Arsenic	0.147	0.0140	0.250	mg/L	4.00	0.219	NR	75-125			*, J
Lead	ND	0.0065	0.100	mg/L	4.00	ND		75-125			*, U

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:27

Wet Chemistry - Quality Control

Batch BGG0286 - EPA 9045D

Instrument: Accumet AR60 Analyst: V

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BGG0286-BS1)										
						Prepared: 12-Jul-2018 Analyzed: 12-Jul-2018 17:24				
pH	6.96	0.01	0.01	pH Units	7.00	99.4	0-200			
Duplicate (BGG0286-DUP1)										
		Source: 18G0095-01		Prepared: 12-Jul-2018 Analyzed: 12-Jul-2018 17:24						
pH	9.74	0.01	0.01	pH Units	9.68	0.62	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:27

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:27

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

16 July 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18G0118

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila, o=Analytical
Resources, Inc., ou=Client Services, cn=Shelly
Fishel, email=shelly.fishel@arilabs.com
Date: 2018.07.16 16:37:14 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 1850118	Turn-around Requested: 2 Day	Date: 7/11/2018
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 1 Cooler Temps: 27.6



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments		
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	PH 9045C									
Sample ID	Date	Time	Matrix	No. Containers											
SO-TC-32A-071118	07/11/18	14:25	Soil	1	✓	✓									
SO-TC-32B-071118	07/11/18	14:35	Soil	1	✓	✓									
SO-TC-32C-071118	07/11/18	14:45	Soil	1	✓	✓									
Comments/Special Instructions					Relinquished by: (Signature) <i>[Signature]</i>			Received by: (Signature) <i>[Signature]</i>			Relinquished by: (Signature)			Received by: (Signature)	
					Printed Name: JEFF KING			Printed Name: Stephanie Fisher			Printed Name:			Printed Name:	
					Company: PERC 7/11/18 16:03			Company: ARI			Company:			Company:	
					Date & Time: 7/11/18 16:03			Date & Time: 7/11/18 16:03			Date & Time:			Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-32A-071118	18G0118-01	Solid	11-Jul-2018 14:25	11-Jul-2018 16:03
SO-TC-32B-071118	18G0118-02	Solid	11-Jul-2018 14:35	11-Jul-2018 16:03
SO-TC-32C-071118	18G0118-03	Solid	11-Jul-2018 14:45	11-Jul-2018 16:03



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:30

Case Narrative

Sample receipt

Samples as listed on the preceding page we received July 11, 2018 under ARI work order 18G0118. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Perc

COC No(s): NA

Assigned ARI Job No: 186016

Project Name: Superion

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1603

27.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: D002568

Cooler Accepted by: Self Date: 7-11-18 Time: 1603

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____ YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____ NA YES NO

Were all bottles sealed in individual plastic bags? _____ YES NO

Did all bottles arrive in good condition (unbroken)? _____ YES NO

Were all bottle labels complete and legible? _____ YES NO

Did the number of containers listed on COC match with the number of containers received? _____ YES NO

Did all bottle labels and tags agree with custody papers? _____ YES NO

Were all bottles used correct for the requested analyses? _____ YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? _____ NA YES NO

Was sufficient amount of sample sent in each bottle? _____ YES NO

Date VOC Trip Blank was made at ARI: _____ NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Self Date: 7-11-18 Time: 1635

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm)
			Peabubbles → "pb" (2 to < 4 mm)
			Large → "lg" (4 to < 6 mm)
			Headspace → "hs" (> 6 mm)



Cooler Temperature Compliance Form

ARI Work Order: 106018

Cooler#: _____ Temperature(°C): 27.6

Sample ID	Bottle Count	Bottle Type
Samples received above 6°		

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Completed by: Set Date: 7-11-18 Time: 1603



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:30

SO-TC-32A-071118
18G0118-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/11/2018 14:25

Instrument: ICP2

Analyzed: 13-Jul-2018 15:40

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0304 Sample Size: 25 mL (wet)
Prepared: 13-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0325	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:30

SO-TC-32A-071118
18G0118-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/11/2018 14:25

Instrument: Accumet AR60

Analyzed: 12-Jul-2018 17:24

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0286
Prepared: 12-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.58	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:30

SO-TC-32B-071118
18G0118-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/11/2018 14:35

Instrument: ICP2

Analyzed: 13-Jul-2018 17:44

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0304 Sample Size: 25 mL (wet)
Prepared: 13-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0494	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:30

SO-TC-32B-071118
18G0118-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/11/2018 14:35

Instrument: Accumet AR60

Analyzed: 12-Jul-2018 17:24

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0286
Prepared: 12-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.63	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:30

SO-TC-32C-071118
18G0118-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/11/2018 14:45

Instrument: ICP2

Analyzed: 13-Jul-2018 15:36

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0304 Sample Size: 25 mL (wet)
Prepared: 13-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0388	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:30

SO-TC-32C-071118
18G0118-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/11/2018 14:45

Instrument: Accumet AR60

Analyzed: 12-Jul-2018 17:24

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0286
Prepared: 12-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.70	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:30

TCLP Metals and Metallic Compounds - Quality Control

Batch BGG0304 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGG0304-BLK1)		Prepared: 13-Jul-2018 Analyzed: 13-Jul-2018 15:27									
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BGG0304-DUP1)		Source: 18G0118-01		Prepared: 13-Jul-2018 Analyzed: 13-Jul-2018 15:44							
Arsenic	0.0353	0.0140	0.250	mg/L		0.0325			8.03	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BGG0304-MS1)		Source: 18G0118-01		Prepared: 13-Jul-2018 Analyzed: 13-Jul-2018 15:48							
Arsenic	4.42	0.0140	0.250	mg/L	4.00	0.0325	110	75-125			
Lead	4.17	0.0065	0.100	mg/L	4.00	ND	104	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:30

Wet Chemistry - Quality Control

Batch BGG0286 - EPA 9045D

Instrument: Accumet AR60 Analyst: V

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Prepared: 12-Jul-2018 Analyzed: 12-Jul-2018 17:24									
LCS (BGG0286-BS1)									
pH	6.96	0.01	0.01	pH Units	7.00	99.4	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:30

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2018 16:30

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Laboratory Data sheets for soil we hope to dispose of at LRI under annual permit 2208B

From David Bosch <DBosch@tpchd.org>

Date Mon 8/6/2018 8:50 AM

To jking perc-nw.com <jking@perc-nw.com>

Cc sduggan perc-nw.com <sduggan@perc-nw.com>; kking perc-nw.com <kking@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

Jeff,

Sorry for my delay in a response.

The Health Department has reviewed the laboratory data sheets (dated July 24, 2018) attached in your email. The results for these soils are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Wednesday, July 25, 2018 8:05 AM

To: David Bosch <DBosch@tpchd.org>

Cc: Steve Duggan <sduggan@perc-nw.com>; kking@perc-nw.com; grimstedb@uspioneer.com

Subject: Laboratory Data sheets for soil we hope to dispose of at LRI under annual permit 2208B

David:

Attached are the latest laboratory data sheets for soil we hope to dispose of at LRI. The following table lists the results. These data represent approximately 67 CY of Soil.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-34A-071718	0.041	ND	9.62
SO-TC-34B-071718	0.0335	ND	9.65
SO-TC-34C-071718	0.0634	ND	9.64

Thank you

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

24 July 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18G0210

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 1060210		Turn-around Requested: 3 Day		
ARI Client Company: PERC		Phone: 425-346-0921		
Client Contact: Kenny King				
Client Project Name: Superlon Plastics				
Client Project #: SLON		Samplers: King		
Sample ID	Date	Time	Matrix	No. Containers
SO-TC-34A-071718	07/17/18	15:30	Soil	1
SO-TC-34B-071718	07/17/18	15:40	Soil	1
SO-TC-34C-071718	07/17/18	15:50	Soil	1
Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i> Printed Name: Kenny King Company: PERC Date & Time: 7/18/18 16:56		Received by: (Signature) <i>Superlon</i> Printed Name: Superlon Company: Superlon Date & Time: 7-18	

Date:	7/18/2018
Page:	of
No. of Coolers:	Cooler Temps:
1	78.1



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments		
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	PH 9045C									
Sample ID	Date	Time	Matrix	No. Containers											
SO-TC-34A-071718	07/17/18	15:30	Soil	1	✓	✓									
SO-TC-34B-071718	07/17/18	15:40	Soil	1	✓	✓									
SO-TC-34C-071718	07/17/18	15:50	Soil	1	✓	✓									
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Sepharine Figue</i>			Relinquished by: (Signature)			Received by: (Signature)	
					Printed Name: <i>Kenny King</i>			Printed Name: <i>Sepharine Figue</i>			Printed Name:			Printed Name:	
					Company: <i>PERC</i>			Company: <i>AR4</i>			Company:			Company:	
					Date & Time: <i>7/18/18 16:56</i>			Date & Time: <i>7-18-18 1656</i>			Date & Time:			Date & Time:	

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Jul-2018 15:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-34A-071718	18G0210-01	Solid	17-Jul-2018 15:30	18-Jul-2018 16:56
SO-TC-34B-071718	18G0210-02	Solid	17-Jul-2018 15:40	18-Jul-2018 16:56
SO-TC-34C-071718	18G0210-03	Solid	17-Jul-2018 15:50	18-Jul-2018 16:56



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Jul-2018 15:25

Case Narrative

Sample receipt

Samples as listed on the preceding page were received July 18, 2018 under ARI work order 18G0210. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Perc

COC No(s): _____

Assigned ARI Job No: 1660210

Project Name: _____

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No: _____

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1056

78.1

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: D002565

Cooler Accepted by: Set Date: 7-18-16 Time: 1656

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES NO

Were all bottles sealed in individual plastic bags? _____

YES NO

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI _____

NA

Was Sample Split by ARI: NA YES _____ Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Set Date: 7-18-16 Time: 1758

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles - 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
---------------------------------------	---------------------------------	--	---



Cooler Temperature Compliance Form

Completed by: CS Date: 7-18-18 Time: 1656



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Jul-2018 15:25

SO-TC-34A-071718
18G0210-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/17/2018 15:30

Instrument: ICP2

Analyzed: 23-Jul-2018 14:03

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0476 Sample Size: 25 mL (wet)
Prepared: 20-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0410	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Jul-2018 15:25

SO-TC-34A-071718
18G0210-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/17/2018 15:30

Instrument: Accumet AR60

Analyzed: 20-Jul-2018 09:29

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0470
Prepared: 20-Jul-2018

Sample Size: 20.03 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.62	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Jul-2018 15:25

SO-TC-34B-071718
18G0210-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/17/2018 15:40

Instrument: ICP2

Analyzed: 23-Jul-2018 14:07

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0476 Sample Size: 25 mL (wet)
Prepared: 20-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0335	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Jul-2018 15:25

SO-TC-34B-071718
18G0210-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/17/2018 15:40

Instrument: Accumet AR60

Analyzed: 20-Jul-2018 09:29

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0470
Prepared: 20-Jul-2018

Sample Size: 20.05 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.65	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Jul-2018 15:25

SO-TC-34C-071718
18G0210-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/17/2018 15:50

Instrument: ICP2

Analyzed: 23-Jul-2018 14:11

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0476 Sample Size: 25 mL (wet)
Prepared: 20-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0634	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Jul-2018 15:25

SO-TC-34C-071718
18G0210-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/17/2018 15:50

Instrument: Accumet AR60

Analyzed: 20-Jul-2018 09:29

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0470
Prepared: 20-Jul-2018

Sample Size: 20.09 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.64	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Jul-2018 15:25

TCLP Metals and Metallic Compounds - Quality Control

Batch BGG0476 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BGG0476-BLK1)					Prepared: 20-Jul-2018 Analyzed: 23-Jul-2018 13:58				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Jul-2018 15:25

Wet Chemistry - Quality Control

Batch BGG0470 - EPA 9045D

Instrument: Accumet AR60 Analyst: k

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BGG0470-BS1)										
					Prepared: 20-Jul-2018 Analyzed: 20-Jul-2018 09:29					
pH	7.01	0.01	0.01	pH Units	7.00	100	0-200			
Duplicate (BGG0470-DUP1)										
					Source: 18G0210-01 Prepared: 20-Jul-2018 Analyzed: 20-Jul-2018 09:29					
pH	9.64	0.01	0.01	pH Units	9.62			0.21	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Jul-2018 15:25

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2018
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Jul-2018 15:25

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

From: David Bosch
To: [Jeffrey D King](#)
Subject: RE: Laboratory Data sheets for soil we hope to dispose of at LRI under annual permit 2208B
Date: Monday, August 6, 2018 1:43:12 PM

Jeff,

The Health Department has reviewed the three data sets (dated July 27, July 31, and August 2, 2018) attached to your email. The soils associated with these data sets are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>
Sent: Monday, August 6, 2018 9:51 AM
To: David Bosch <DBosch@tpchd.org>
Subject: RE: Laboratory Data sheets for soil we hope to dispose of at LRI under annual permit 2208B

David:

Thank you.

Attached are three more data packages for additional soil. Please let me know if they are acceptable. The data is summarized on the table below.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-35A-072318	0.381	ND	10.1
SO-TC-35B-072318	0.353	ND	10.5
SO-TC-35C-072318	1.28	ND	11.7
SO-TC-36A-072518	1.27	ND	11.8
SO-TC-37A-073018	0.38	ND	9.42
SO-TC-37B-073018	0.159	ND	9.88
SO-TC-37C-073018	0.107	ND	9.62

Thanks

Jeff



Analytical Resources, Incorporated
Analytical Chemists and Consultants

27 July 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18G0260

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client
Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.07.27 11:15:47 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18G0260		Turn-around Requested: 3 Day		Date: 7/23/18		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: 1 of 1					
Client Contact: Kenny King		No. of Coolers: 2		Cooler Temps: 75.6°C					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 AS/Pb Only		PH 9045C			
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-35A-072318	07/23/18	13:35	Soil	1	✓	✓			
SO-TC-35B-072318	07/23/18	13:45	Soil	1	✓	✓			
SO-TC-35C-072318	07/23/18	13:55	Soil	1	✓	✓			
Comments/Special Instructions		Relinquished by:		Received by:		Relinquished by:		Received by:	
		(Signature) <i>Kenny King</i>		(Signature) <i>Jacob Walter</i>		(Signature)		(Signature)	
		Printed Name: Kenny King		Printed Name: Jacob Walter		Printed Name:		Printed Name:	
		Company: PERC		Company: ARI		Company:		Company:	
Date & Time: 7/23/18 16:44		Date & Time: 07/23/18 1644		Date & Time:		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2018 11:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-35A-072318	18G0260-01	Solid	23-Jul-2018 13:35	23-Jul-2018 16:44
SO-TC-35B-072318	18G0260-02	Solid	23-Jul-2018 13:45	23-Jul-2018 16:44
SO-TC-35C-072318	18G0260-03	Solid	23-Jul-2018 13:55	23-Jul-2018 16:44



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2018 11:12

Case Narrative

Sample receipt

Samples as listed on the preceding page were received July 23, 2018 under ARI work order 18G0260. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 1860260

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1644

35.6°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 205206

Cooler Accepted by: JSW Date: 07/23/18 Time: 1644

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI... NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JSW Date: 07/23/18 Time: 1652

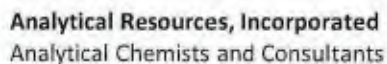
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
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Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2018 11:12

SO-TC-35A-072318
18G0260-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/23/2018 13:35

Instrument: ICP2

Analyzed: 26-Jul-2018 14:50

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0639 Sample Size: 25 mL (wet)
Prepared: 26-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.381	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2018 11:12

SO-TC-35A-072318
18G0260-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/23/2018 13:35

Instrument: Orion115

Analyzed: 26-Jul-2018 15:16

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0585
Prepared: 25-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.1	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2018 11:12

SO-TC-35B-072318
18G0260-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/23/2018 13:45

Instrument: ICP2

Analyzed: 26-Jul-2018 14:28

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0639 Sample Size: 25 mL (wet)
Prepared: 26-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.353	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2018 11:12

SO-TC-35B-072318
18G0260-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/23/2018 13:45

Instrument: Orion115

Analyzed: 26-Jul-2018 15:16

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0585
Prepared: 25-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.5	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2018 11:12

SO-TC-35C-072318
18G0260-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/23/2018 13:55

Instrument: ICP2

Analyzed: 26-Jul-2018 14:33

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0639 Sample Size: 25 mL (wet)
Prepared: 26-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	1.28	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2018 11:12

SO-TC-35C-072318
18G0260-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/23/2018 13:55

Instrument: Orion115

Analyzed: 26-Jul-2018 15:16

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGG0585
Prepared: 25-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	11.7	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2018 11:12

TCLP Metals and Metallic Compounds - Quality Control

Batch BGG0639 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGG0639-BLK1)						Prepared: 26-Jul-2018 Analyzed: 26-Jul-2018 14:24					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BGG0639-DUP1)						Source: 18G0260-03 Prepared: 26-Jul-2018 Analyzed: 26-Jul-2018 14:46					
Arsenic	1.30	0.0140	0.250	mg/L		1.28			1.48	20	
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BGG0639-MS1)						Source: 18G0260-03 Prepared: 26-Jul-2018 Analyzed: 26-Jul-2018 14:55					
Arsenic	5.54	0.0140	0.250	mg/L	4.00	1.28	106	75-125			
Lead	3.96	0.0065	0.100	mg/L	4.00	ND	99.1	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2018 11:12

Wet Chemistry - Quality Control

Batch BGG0585 - EPA 9045D

Instrument: Orion115 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BGG0585-BS1)										
Prepared: 25-Jul-2018 Analyzed: 26-Jul-2018 15:16										
pH	7.00	0.01	0.01	pH Units	7.00	100	0-200			
Duplicate (BGG0585-DUP1)										
Source: 18G0260-01 Prepared: 25-Jul-2018 Analyzed: 26-Jul-2018 15:16										
pH	10.1	0.01	0.01	pH Units	10.1			0.20	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2018 11:12

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2018 11:12

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

31 July 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18G0275

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client
Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.07.31 11:44:52 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

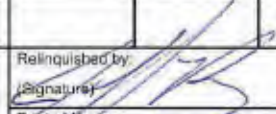
Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18G0275		Turn-around Requested: 3 Day		Date: 7/25/2018		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of					
Client Contact: Kenny King		No. of Coolers: Cooler Temps:							
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	PH 9045C				
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-36A-072518	07/25/18	08:10	Soil	1	✓	✓			
Comments/Special Instructions				Relinquished by: 		Received by: 		Relinquished by: Received by:	
				Printed Name: JEFF KING		Printed Name: Jasmine Bowman		Printed Name: Printed Name:	
				Company: PERC		Company: ARI		Company: Company:	
				Date & Time: 7/25/18 10:40		Date & Time: 7/25/18 1040		Date & Time: Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
31-Jul-2018 11:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-36A-072518	18G0275-01	Solid	25-Jul-2018 08:10	25-Jul-2018 10:40



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
31-Jul-2018 11:41

Case Narrative

Sample receipt

Samples as listed on the preceding page were received July 25, 2018 under ARI work order 18G0275. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD were within control limits.

The Matrix Spike percent recoveries were within control limits.



WORK ORDER

18G0275

Client: PERC-Pacific Environmental and Redevelopment

Project Manager: Shelly Fishel

Project: Superlon Plastics

Project Number: SLON

Report To:

PERC-Pacific Environmental and Redevelopment Corp
Kenny King
8424 E Meadow Lake Drive
Snohomish, WA 98290
Phone: (425) 346-0921
Fax:

Invoice To:

PERC-Pacific Environmental and Redevelopment Corp
Jeffrey King
8424 E Meadow Lake Drive
Snohomish, WA 98290
Phone : (425) 238-2212
Fax:

Date Due: 30-Jul-2018 18:00 (3 day TAT)

Received By: Jasmine Bowman

Date Received: 25-Jul-2018 10:40

Logged In By: Jasmine Bowman

Date Logged In: 25-Jul-2018 10:50

Samples Received at 28°C

Intact, properly signed and dated custody seals attached to outside of cooler(s).....	No	Custody papers included with the cooler.....	Yes
Custody papers properly filled out (in, signed, analyses requested, etc).....	Yes	Was a temperature blank included in the cooler.....	No
Was sufficient ice used (if appropriate).....	No	All bottles sealed in individual plastic bags.....	Yes
All bottles arrived in good condition (unbroken).....	Yes	All bottle labels complete and legible.....	Yes
Number of containers listed on COC match number received.....	Yes	Bottle labels and tags agree with COC.....	Yes
Correct bottles used for the requested analyses.....	Yes	All VOC vials free of air bubbles.....	No
Analyses/bottles require preservation (attach preservation sheet excluding VOC).No		Sufficient amount of sample sent in each bottle.....	Yes
Sample split at ARI.....	No		

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

18G0275-01 SO-TC-36A-072518 [Solid] Sampled 25-Jul-2018 08:10
(GMT-08:00) Pacific Time (US & Canada)

A - Glass WM, Amber, 8 oz

TCLP 6010C - Pb	30-Jul-2018 15:00	3	21-Jan-2019 08:10
TCLP 6010C - As	30-Jul-2018 15:00	3	21-Jan-2019 08:10
TCLP 1311	30-Jul-2018 15:00	3	22-Aug-2018 08:10
pH, EPA 9045D, Solid	30-Jul-2018 15:00	3	08-Aug-2018 08:10
Filter 0.7 micron (TCLP)	30-Jul-2018 15:00	3	26-Jul-2018 10:40

Reviewed By

Date

Page 1 of 1



Cooler Receipt Form

ARI Client: PERC

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 18G0275

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1040

28.0 °C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: D002565

Cooler Accepted by: JLB Date: 7/25/18 Time: 1040

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES NO

Were all bottles sealed in individual plastic bags? _____

YES NO

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI: _____

NA

Was Sample Split by ARI : NA YES Date/Time: _____ Equipment: _____ Split by: _____

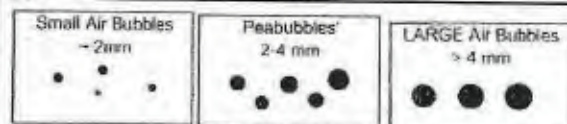
Samples Logged by: JLB Date: 7/25/18 Time: 1050

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Small → "sm" (< 2 mm)

Peabubbles → "pb" (2 to < 4 mm)

Large → "lg" (4 to < 6 mm)

Headspace → "hs" (> 6 mm)



Cooler Temperature Compliance Form

ARI Work Order: 18G0275

Cooler#: 02 Temperature(°C): 28.0°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Sample out of Temp

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: _____ Date: _____ Time: _____

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
31-Jul-2018 11:41

SO-TC-36A-072518
18G0275-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/25/2018 08:10

Instrument: ICP2

Analyzed: 30-Jul-2018 13:57

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGG0675 Sample Size: 25 mL (wet)
Prepared: 27-Jul-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	1.27	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
31-Jul-2018 11:41

SO-TC-36A-072518
18G0275-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/25/2018 08:10

Instrument: Accumet AR60

Analyzed: 26-Jul-2018 13:15

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BGG0643
Prepared: 26-Jul-2018

Sample Size: 20 g (wet)
Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	11.8	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
31-Jul-2018 11:41

TCLP Metals and Metallic Compounds - Quality Control

Batch BGG0675 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGG0675-BLK1)						Prepared: 27-Jul-2018 Analyzed: 30-Jul-2018 13:24					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BGG0675-DUP1)						Source: 18G0275-01 Prepared: 27-Jul-2018 Analyzed: 30-Jul-2018 13:53					
Arsenic	1.29	0.0140	0.250	mg/L		1.27			1.18	20	
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BGG0675-MS1)						Source: 18G0275-01 Prepared: 27-Jul-2018 Analyzed: 30-Jul-2018 14:01					
Arsenic	5.61	0.0140	0.250	mg/L	4.00	1.27	109	75-125			
Lead	4.22	0.0065	0.100	mg/L	4.00	ND	105	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
31-Jul-2018 11:41

Wet Chemistry - Quality Control

Batch BGG0643 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: V

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BGG0643-BS1)										
						Prepared: 26-Jul-2018 Analyzed: 26-Jul-2018 13:15				
pH	6.96	0.01	0.01	pH Units	7.00	99.4	0-200			
Duplicate (BGG0643-DUP1)										
		Source: 18G0275-01		Prepared: 26-Jul-2018 Analyzed: 26-Jul-2018 13:15						
pH	11.8	0.01	0.01	pH Units	11.8			0.34	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
31-Jul-2018 11:41

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
31-Jul-2018 11:41

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

02 August 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18G0360

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington,
l=Tukwila, o=Analytical
Resources, Inc., ou=Client
Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.08.02 14:55:03 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 1860360		Turn-around Requested: 3 Day		Date: 7/30/2018		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of					
Client Contact: Kenny King		No. of Coolers: 1		Cooler Temps: 26.6					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	PH 9045C				
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-37A-073018	07/30/18	10:45	Soil	1	✓	✓			
SO-TC-37B-073018	07/30/18	10:55	Soil	1	✓	✓			
SO-TC-37C-073018	07/30/18	11:05	Soil	1	✓	✓			
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Stephanie Fisher</i>		Relinquished by: (Signature)		Received by: (Signature)	
		Printed Name: Kenny King		Printed Name: Stephanie Fisher		Printed Name:		Printed Name:	
		Company: PERC		Company: ARI		Company:		Company:	
		Date & Time: 7/30/18 16:21		Date & Time: 7-30-18 1621		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2018 14:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-37A-073018	18G0360-01	Solid	30-Jul-2018 10:45	30-Jul-2018 16:21
SO-TC-37B-073018	18G0360-02	Solid	30-Jul-2018 10:55	30-Jul-2018 16:21
SO-TC-37C-073018	18G0360-03	Solid	30-Jul-2018 11:05	30-Jul-2018 16:21



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2018 14:51

Case Narrative

Sample receipt

Samples as listed on the preceding page were received July 30, 2018 under ARI work order 18G0360. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

The Duplicate RPD was within control limits

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 18G0360

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? _____

YES

NO

Were custody papers included with the cooler? _____

YES

NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES

NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 11621

26.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: D002565

Cooler Accepted by: Self Date: 7-30-18 Time: 11621

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES

NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA

YES

NO

Were all bottles sealed in individual plastic bags? _____

YES

NO

Did all bottles arrive in good condition (unbroken)? _____

YES

NO

Were all bottle labels complete and legible? _____

YES

NO

Did the number of containers listed on COC match with the number of containers received? _____

YES

NO

Did all bottle labels and tags agree with custody papers? _____

YES

NO

Were all bottles used correct for the requested analyses? _____

YES

NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA

YES

NO

Were all VOC vials free of air bubbles? _____

NA

YES

NO

Was sufficient amount of sample sent in each bottle? _____

YES

NO

Date VOC Trip Blank was made at ARI: _____

NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Self Date: 7-30-18 Time: 11626

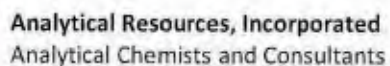
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
---------------------------------------	---------------------------------	--	---



Cooler Temperature Compliance Form

Completed by: Self Date: 7-30-16 Time: 1621

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2018 14:51

SO-TC-37A-073018
18G0360-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/30/2018 10:45

Instrument: ICP2

Analyzed: 01-Aug-2018 15:26

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0009 Sample Size: 25 mL (wet)
Prepared: 01-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.380	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2018 14:51

SO-TC-37A-073018
18G0360-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/30/2018 10:45

Instrument: Accumet AR60

Analyzed: 01-Aug-2018 09:00

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BGG0811
Prepared: 31-Jul-2018

Sample Size: 20.141 g (wet)
Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.42	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2018 14:51

SO-TC-37B-073018
18G0360-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/30/2018 10:55

Instrument: ICP2

Analyzed: 01-Aug-2018 15:31

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0009 Sample Size: 25 mL (wet)
Prepared: 01-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.159	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2018 14:51

SO-TC-37B-073018
18G0360-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/30/2018 10:55

Instrument: Accumet AR60

Analyzed: 01-Aug-2018 09:00

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BGG0811
Prepared: 31-Jul-2018

Sample Size: 20.292 g (wet)
Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.88	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2018 14:51

SO-TC-37C-073018
18G0360-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/30/2018 11:05

Instrument: ICP2

Analyzed: 01-Aug-2018 15:35

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0009 Sample Size: 25 mL (wet)
Prepared: 01-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.107	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2018 14:51

SO-TC-37C-073018
18G0360-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/30/2018 11:05

Instrument: Accumet AR60

Analyzed: 01-Aug-2018 09:00

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BGG0811
Prepared: 31-Jul-2018

Sample Size: 20.715 g (wet)
Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.62	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2018 14:51

TCLP Metals and Metallic Compounds - Quality Control

Batch BGH0009 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGH0009-BLK1)						Prepared: 01-Aug-2018 Analyzed: 01-Aug-2018 15:13					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2018 14:51

Wet Chemistry - Quality Control

Batch BGG0811 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: V

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BGG0811-BS1)										
						Prepared: 31-Jul-2018 Analyzed: 01-Aug-2018 09:00				
pH	6.99	0.01	0.01	pH Units	7.00	99.9	0-200			
Duplicate (BGG0811-DUP1)										
		Source: 18G0360-01				Prepared: 31-Jul-2018 Analyzed: 01-Aug-2018 09:00				
pH	9.46	0.01	0.01	pH Units	9.42	0.42	20			



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2018 14:51

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2018 14:51

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Data Packages - Soils Proposed for disposal at LRI

From David Bosch <DBosch@tpchd.org>

Date Mon 8/20/2018 2:13 PM

To jking perc-nw.com <jking@perc-nw.com>

Cc sduggan perc-nw.com <sduggan@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>; kking perc-nw.com <kking@perc-nw.com>

Jeff,

The Health Department has reviewed the data sets dated August 10, 2018 and August 13, 2018. The soils associated with these characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Tuesday, August 14, 2018 9:53 AM

To: David Bosch <DBosch@tpchd.org>

Cc: Steve Duggan <sduggan@perc-nw.com>; grimstedb@uspioneer.com; 'Kenny King' <kking@perc-nw.com>

Subject: Data Packages - Soils Proposed for disposal at LRI

David:

Attached are two more data packages for additional soil. Please let me know if they are acceptable. The data are summarized on the table below.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-38A-080618	0.245	ND	9.34
SO-TC-38B-080618	0.212	ND	9.48
SO-TC-38C-080618	0.168	ND	9.08
SO-TC-39A-080718	0.136	ND	9.65
SO-TC-39B-080718	0.27	0.0112	9.63
SO-TC-39C-080718	0.28	ND	9.69

Thanks

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

10 August 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18H0060

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

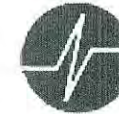
Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 13H0060	Turn-around Requested: 3 Day	Date: 8/6/2018
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 1 Cooler Temps: 31.3



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 AS/Pb Only	PH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-38A-080618	08/06/18	10:25	Soil	1	✓	✓							
SO-TC-38B-080618	08/06/18	10:35	Soil	1	✓	✓							
SO-TC-38C-080618	08/06/18	10:45	Soil	1	✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Stephanie Fisher</i>		Relinquished by: (Signature)		Received by: (Signature)		
					Printed Name: Kenny King		Printed Name: Stephanie Fisher		Printed Name:		Printed Name:		
					Company: PERC		Company: ARI		Company:		Company:		
					Date & Time: 8/6/18 4:40pm		Date & Time: 8-6-18 1640		Date & Time:		Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Aug-2018 11:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-38A-080618	18H0060-01	Solid	06-Aug-2018 10:25	06-Aug-2018 16:40
SO-TC-38B-080618	18H0060-02	Solid	06-Aug-2018 10:35	06-Aug-2018 16:40
SO-TC-38C-080618	18H0060-03	Solid	06-Aug-2018 10:45	06-Aug-2018 16:40



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Aug-2018 11:45

Case Narrative

Sample receipt

Samples as listed on the preceding page were received August 6, 2018 under ARI work order 18H0060. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recovery was within control limits.

The Duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Perc

Project Name: _____

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 18H0060

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES (NO)

Were custody papers included with the cooler? YES (NO)

Were custody papers properly filled out (ink, signed, etc.) YES (NO)

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 31.3

Time: 1640

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID# D007566

Cooler Accepted by: SE Date: 8-6-18 Time: 1640

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES (NO)

Were all bottles sealed in individual plastic bags? YES (NO)

Did all bottles arrive in good condition (unbroken)? YES (NO)

Were all bottle labels complete and legible? YES (NO)

Did the number of containers listed on COC match with the number of containers received? YES (NO)

Did all bottle labels and tags agree with custody papers? YES (NO)

Were all bottles used correct for the requested analyses? YES (NO)

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... (NA) YES (NO)

Were all VOC vials free of air bubbles? (NA) YES (NO)

Was sufficient amount of sample sent in each bottle? YES (NO)

Date VOC Trip Blank was made at ARI: (NA)

Was Sample Split by ARI: (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: SE Date: 8-6-18 Time: 1647

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm 	Pea bubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Pea bubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
---------------------------------------	----------------------------------	--	--



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Aug-2018 11:45

SO-TC-38A-080618
18H0060-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/06/2018 10:25

Instrument: ICP2

Analyzed: 09-Aug-2018 11:05

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0182 Sample Size: 25 mL (wet)
Prepared: 08-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.245	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Aug-2018 11:45

SO-TC-38A-080618
18H0060-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/06/2018 10:25

Instrument: Accumet AR60

Analyzed: 09-Aug-2018 11:50

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BGH0220 Sample Size: 21.33 g (wet)
Prepared: 09-Aug-2018 Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	9.34	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Aug-2018 11:45

SO-TC-38B-080618
18H0060-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/06/2018 10:35

Instrument: ICP2

Analyzed: 09-Aug-2018 11:09

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0182 Sample Size: 25 mL (wet)
Prepared: 08-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.212	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Aug-2018 11:45

SO-TC-38B-080618
18H0060-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/06/2018 10:35

Instrument: Accumet AR60

Analyzed: 09-Aug-2018 11:50

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BGH0220
Prepared: 09-Aug-2018

Sample Size: 21.14 g (wet)
Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	9.48	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Aug-2018 11:45

SO-TC-38C-080618
18H0060-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/06/2018 10:45

Instrument: ICP2

Analyzed: 09-Aug-2018 11:13

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0182 Sample Size: 25 mL (wet)
Prepared: 08-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.168	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Aug-2018 11:45

SO-TC-38C-080618
18H0060-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/06/2018 10:45

Instrument: Accumet AR60

Analyzed: 09-Aug-2018 11:50

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BGH0220 Sample Size: 20.21 g (wet)
Prepared: 09-Aug-2018 Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.08	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Aug-2018 11:45

TCLP Metals and Metallic Compounds - Quality Control

Batch BGH0182 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGH0182-BLK1)						Prepared: 08-Aug-2018 Analyzed: 09-Aug-2018 10:53					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Aug-2018 11:45

Wet Chemistry - Quality Control

Batch BGH0220 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: V

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BGH0220-BS1)										
						Prepared: 09-Aug-2018 Analyzed: 09-Aug-2018 11:50				
pH	7.00	0.01	0.01	pH Units	7.00	100	0-200			
Duplicate (BGH0220-DUP1)										
		Source: 18H0060-01				Prepared: 09-Aug-2018 Analyzed: 09-Aug-2018 11:50				
pH	9.37	0.009	0.009	pH Units	9.34	0.32	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Aug-2018 11:45

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Aug-2018 11:45

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

13 August 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18H0072

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18H0072	Turn-around Requested: 3 Day	Date: 08/07/2018
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 1 Cooler Temps: 35.1



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments		
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	PH 9045C									
Sample ID	Date	Time	Matrix	No. Containers											
SO-TC-39A-080718	08/07/18	10:30	Soil	1	✓	✓									
SO-TC-39B-080718	08/07/18	10:40	Soil	1	✓	✓									
SO-TC-39C-080718	08/07/18	10:50	Soil	1	✓	✓									
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Kelly Dotter</i>			Relinquished by: (Signature)			Received by: (Signature)	
					Printed Name: Kenny King			Printed Name: Kelly Dotter			Printed Name:			Printed Name:	
					Company: PERC			Company: ARI			Company:			Company:	
					Date & Time: 8/7/18 16:42			Date & Time: 8/7/18 16:42			Date & Time:			Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSSDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2018 15:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-39A-080718	18H0072-01	Solid	07-Aug-2018 10:30	07-Aug-2018 16:42
SO-TC-39B-080718	18H0072-02	Solid	07-Aug-2018 10:40	07-Aug-2018 16:42
SO-TC-39C-080718	18H0072-03	Solid	07-Aug-2018 10:50	07-Aug-2018 16:42



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2018 15:55

Case Narrative

Sample receipt

Samples as listed on the preceding page were received August 7, 2018 under ARI work order 18H0072. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry - pH

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Perc

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivery Other _____

Assigned ARI Job No: 18H0072

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry) 35.1

Time: 1652

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: D002565

Cooler Accepted by: Self for Kerry Date: 8-7-18 Time: 1642

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Self Date: 8-7-18 Time: 1659

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
---------------------------------------	---------------------------------	--	---



Cooler Temperature Compliance Form

Completed by: SES Date: 8-1-10 Time: _____
00070F Cooler Temperature Compliance Form Version 000



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2018 15:55

SO-TC-39A-080718
18H0072-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/07/2018 10:30

Instrument: ICP2

Analyzed: 13-Aug-2018 11:56

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0249 Sample Size: 25 mL (wet)
Prepared: 10-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.136	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2018 15:55

SO-TC-39A-080718
18H0072-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/07/2018 10:30

Instrument: Accumet AR60

Analyzed: 09-Aug-2018 11:50

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BGH0220
Prepared: 09-Aug-2018

Sample Size: 20.7 g (wet)
Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.65	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2018 15:55

SO-TC-39B-080718
18H0072-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/07/2018 10:40

Instrument: ICP2

Analyzed: 13-Aug-2018 11:38

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0249 Sample Size: 25 mL (wet)
Prepared: 10-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.270	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0112	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2018 15:55

SO-TC-39B-080718
18H0072-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/07/2018 10:40

Instrument: Accumet AR60

Analyzed: 09-Aug-2018 11:50

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BGH0220
Prepared: 09-Aug-2018

Sample Size: 20.1 g (wet)
Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.63	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2018 15:55

SO-TC-39C-080718
18H0072-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/07/2018 10:50

Instrument: ICP2

Analyzed: 13-Aug-2018 11:43

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0249 Sample Size: 25 mL (wet)
Prepared: 10-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.280	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2018 15:55

SO-TC-39C-080718
18H0072-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/07/2018 10:50

Instrument: Accumet AR60

Analyzed: 09-Aug-2018 11:50

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BGH0220 Sample Size: 20.35 g (wet)
Prepared: 09-Aug-2018 Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.69	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2018 15:55

TCLP Metals and Metallic Compounds - Quality Control

Batch BGH0249 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGH0249-BLK1)						Prepared: 10-Aug-2018 Analyzed: 13-Aug-2018 11:33					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BGH0249-DUP1)						Source: 18H0072-01 Prepared: 10-Aug-2018 Analyzed: 13-Aug-2018 11:51					
Arsenic	0.134	0.0140	0.250	mg/L		0.136			1.76	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BGH0249-MS1)						Source: 18H0072-01 Prepared: 10-Aug-2018 Analyzed: 13-Aug-2018 12:00					
Arsenic	4.48	0.0140	0.250	mg/L	4.00	0.136	108	75-125			
Lead	3.97	0.0065	0.100	mg/L	4.00	ND	99.1	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2018 15:55

Wet Chemistry - Quality Control

Batch BGH0220 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: V

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Prepared: 09-Aug-2018 Analyzed: 09-Aug-2018 11:50									
LCS (BGH0220-BS1)									
pH	7.00	0.01	0.01	pH Units	7.00	100	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2018 15:55

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2018 15:55

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

From: David Bosch
To: [Jeffrey D King](#)
Subject: RE: Three data packages for your approval
Date: Tuesday, August 21, 2018 7:30:15 AM

Jeff,

The Tacoma-Pierce County Health Department has reviewed the three data sets dated August 17, 2018. The data characterizing these soils are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



From: Jeffrey D King <jking@perc-nw.com>
Sent: Monday, August 20, 2018 3:07 PM
To: David Bosch <DBosch@tpchd.org>
Subject: Three data packages for your approval

David:

Here are three more data packages for your consideration. Please let us know if you approve it for disposal at LRI. The following table summarizes the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-40A-080818	0.217	ND	9.47
SO-TC-40B-080818	0.225	ND	9.59
SO-TC-40C-080818	0.527	ND	9.45
SO-TC-42A-081318	0.492	ND	9.28
SO-TC-42B-081318	0.409	ND	9.43
SO-TC-42C-081318	0.421	ND	9.43
SO-TC-43A-081418	0.17	ND	9.18
SO-TC-43B-081418	0.167	0.0433	9.33
SO-TC-43C-081418	0.0697	0.0235	9.25

Thank you (as always)
Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

17 August 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18H0164

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client Services,
cn=Shelly Fishel, email=shelly.fishel@arilabs.com
Date: 2018.08.17 13:05:02 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18H0164		Turn-around Requested: 3 Day			Date: 8/13/18			
ARI Client Company: PERC		Phone: 425-346-0921			Page: of			
Client Contact: Kenny King					No. of Coolers: 1 Cooler Temps: 25.2			
Client Project Name: Superlon Plastics					Analysis Requested			
Client Project #: SLON		Samplers: King			Notes/Comments			
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	PH 9045C		
SO-TC-40A-080818	08/08/18	09:00	Soil	1	✓	✓		
SO-TC-40B-080818	08/08/18	09:10	Soil	1	✓	✓		
SO-TC-40C-080818	08/08/18	09:20	Soil	1	✓	✓		
Comments/Special Instructions					Relinquished by: (Signature) <i>[Signature]</i>		Received by: (Signature) <i>[Signature]</i>	
					Printed Name: JEFF KING		Printed Name: Stephanie Fisher	
					Company: PERC		Company: ARI	
					Date & Time: 8/13/18 4:10PM		Date & Time: 8-13-18 1610	



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-40A-080818	18H0164-01	Solid	08-Aug-2018 09:00	13-Aug-2018 16:10
SO-TC-40B-080818	18H0164-02	Solid	08-Aug-2018 09:10	13-Aug-2018 16:10
SO-TC-40C-080818	18H0164-03	Solid	08-Aug-2018 09:20	13-Aug-2018 16:10



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:49

Case Narrative

Sample receipt

Samples as listed on the preceding page were received August 13, 2018 under ARI work order 18H0164. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD and Matrix Spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 18H0164

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 25.2

Time: 1610

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: D002565

Cooler Accepted by: Sof Date: 8-13-18 Time: 1610

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Sof Date: 8-13-18 Time: 1624

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
---------------------------------------	---------------------------------	--	---



Cooler Temperature Compliance Form

ARI Work Order: 18H0164

Cooler#: 1 Temperature(°C): 25.2

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received
above 6°

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: SOS Date: 8-13-18 Time: 1610

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:49

SO-TC-40A-080818
18H0164-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/08/2018 09:00

Instrument: ICP2

Analyzed: 16-Aug-2018 12:36

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0369 Sample Size: 25 mL (wet)
Prepared: 15-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.217	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:49

SO-TC-40A-080818
18H0164-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/08/2018 09:00

Instrument: Accumet AR60

Analyzed: 14-Aug-2018 14:20

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BGH0332
Prepared: 14-Aug-2018

Sample Size: 20.58 g (wet)
Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.47	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:49

SO-TC-40B-080818
18H0164-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/08/2018 09:10

Instrument: ICP2

Analyzed: 16-Aug-2018 12:07

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0369 Sample Size: 25 mL (wet)
Prepared: 15-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.225	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:49

SO-TC-40B-080818
18H0164-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/08/2018 09:10

Instrument: Accumet AR60

Analyzed: 14-Aug-2018 14:20

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BGH0332
Prepared: 14-Aug-2018

Sample Size: 20.3 g (wet)
Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.59	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:49

SO-TC-40C-080818
18H0164-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/08/2018 09:20

Instrument: ICP2

Analyzed: 16-Aug-2018 12:11

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0369 Sample Size: 25 mL (wet)
Prepared: 15-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.527	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:49

SO-TC-40C-080818
18H0164-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/08/2018 09:20

Instrument: Accumet AR60

Analyzed: 14-Aug-2018 14:20

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BGH0332
Prepared: 14-Aug-2018

Sample Size: 20.02 g (wet)
Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.45	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:49

TCLP Metals and Metallic Compounds - Quality Control

Batch BGH0369 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGH0369-BLK1)						Prepared: 15-Aug-2018 Analyzed: 16-Aug-2018 12:02					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BGH0369-DUP1)						Source: 18H0164-01 Prepared: 15-Aug-2018 Analyzed: 16-Aug-2018 12:32					
Arsenic	0.214	0.0140	0.250	mg/L		0.217			1.47	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BGH0369-MS1)						Source: 18H0164-01 Prepared: 15-Aug-2018 Analyzed: 16-Aug-2018 12:41					
Arsenic	4.73	0.0140	0.250	mg/L	4.00	0.217	113	75-125			
Lead	4.17	0.0065	0.100	mg/L	4.00	ND	104	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:49

Wet Chemistry - Quality Control

Batch BGH0332 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: V

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGH0332-BS1)					Prepared: 14-Aug-2018 Analyzed: 14-Aug-2018 14:20				
pH	6.97	0.01	0.01	pH Units	7.00	99.6	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:49

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:49

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

17 August 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18H0165

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client
Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.08.17 13:05:26 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 18H0165		Turn-around Requested: 3-Day			Date: 08/13/18		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)						
ARI Client Company: PERC			Phone: 4253460921			Page: of							
Client Contact: Kenny King						No. of Coolers: 1 Cooler Temps: 25.2							
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments	
Client Project #: SLON		Samplers: GRIM			TCLP 1311 As Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-42A-081318	8/13/18	7:50	Soil	1	✓	✓							
SO-TC-42B-081318	8/13/18	8:13	Soil	1	✓	✓							
SO-TC-42C-081318	8/13/18	8:24	Soil	1	✓	✓							
Comments/Special Instructions				Relinquished by: (Signature)		Received by: (Signature)		Relinquished by: (Signature)		Received by: (Signature)			
				Printed Name: JEFF KING		Printed Name: Stephanie Fisher		Printed Name:		Printed Name:			
				Company: PERC		Company: ARR		Company:		Company:			
				Date & Time: 4/13/18 4:11 PM		Date & Time: 8-13-18 11:00		Date & Time:		Date & Time:			

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-42A-081318	18H0165-01	Solid	13-Aug-2018 07:50	13-Aug-2018 16:10
SO-TC-42B-081318	18H0165-02	Solid	13-Aug-2018 08:13	13-Aug-2018 16:10
SO-TC-42C-081318	18H0165-03	Solid	13-Aug-2018 08:24	13-Aug-2018 16:10



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:53

Case Narrative

Sample receipt

Samples as listed on the preceding page were received August 13, 2018 under ARI work order 18H0165. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 18H0165

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 25.2

Time: 1610

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DT02565

Cooler Accepted by: Sof Date: 8-13-18 Time: 1610

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI... NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Sof Date: 8-13-18 Time: 1629

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm 	Peabubbles' 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
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ARI Work Order: 18H0165

Cooler#: 1 Temperature(°C): 25.2

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received
above 6°

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: SoS Date: 8-13-18 Time: 1610

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:53

SO-TC-42A-081318
18H0165-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/13/2018 07:50

Instrument: ICP2

Analyzed: 16-Aug-2018 12:15

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0369 Sample Size: 25 mL (wet)
Prepared: 15-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.492	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:53

SO-TC-42A-081318
18H0165-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/13/2018 07:50

Instrument: Accumet AR60

Analyzed: 14-Aug-2018 14:20

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BGH0332
Prepared: 14-Aug-2018

Sample Size: 20.55 g (wet)
Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.28	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:53

SO-TC-42B-081318
18H0165-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/13/2018 08:13

Instrument: ICP2

Analyzed: 16-Aug-2018 12:19

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0369 Sample Size: 25 mL (wet)
Prepared: 15-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.409	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:53

SO-TC-42B-081318
18H0165-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/13/2018 08:13

Instrument: Accumet AR60

Analyzed: 14-Aug-2018 14:20

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BGH0332
Prepared: 14-Aug-2018

Sample Size: 20.33 g (wet)
Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.43	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:53

SO-TC-42C-081318
18H0165-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/13/2018 08:24

Instrument: ICP2

Analyzed: 16-Aug-2018 12:24

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0369 Sample Size: 25 mL (wet)
Prepared: 15-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.421	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:53

SO-TC-42C-081318
18H0165-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/13/2018 08:24

Instrument: Accumet AR60

Analyzed: 14-Aug-2018 14:20

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BGH0332
Prepared: 14-Aug-2018

Sample Size: 20.27 g (wet)
Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.43	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:53

TCLP Metals and Metallic Compounds - Quality Control

Batch BGH0369 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BGH0369-BLK1)					Prepared: 15-Aug-2018 Analyzed: 16-Aug-2018 12:02				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:53

Wet Chemistry - Quality Control

Batch BGH0332 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: V

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGH0332-BS1)									
Prepared: 14-Aug-2018 Analyzed: 14-Aug-2018 14:20									
pH	6.97	0.01	0.01	pH Units	7.00	99.6	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:53

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:53

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

17 August 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18H0190

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client
Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.08.17 13:06:27 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

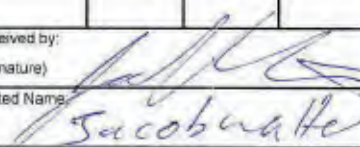
Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18H0190		Turn-around Requested: 2-day		Date: 08/14/18		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC		Phone: 4253460921		Page: 1 of 1							
Client Contact: Kenny King				No. of Coolers: 2 Cooler Temps: 32.8°C							
Client Project Name: Superlon Plastics				Analysis Requested						Notes/Comments	
Client Project #: SLON		Samplers: BG		TCLP 1311 As. Pb Only		pH 9045C					
Sample ID	Date	Time	Matrix	No. Containers							
SO-TC-43A-081418	08/14/18	9:53	Soil	1	✓	✓					
SO-TC-43B-081418	8/14/18	10:06	Soil	1	✓	✓					
SO-TC-43B-081418	8/14/18	10:16	Soil	1	✓	✓					
Comments/Special Instructions				Relinquished by: (Signature) 		Received by: (Signature) 		Relinquished by: (Signature)		Received by: (Signature)	
				Printed Name: JEFF KING		Printed Name: Jacob Walter		Printed Name:		Printed Name:	
				Company: PERC		Company: ARI		Company:		Company:	
				Date & Time: 8/14/18 16:03		Date & Time: 08/14/18 16:03		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSSDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-43A-081418	18H0190-01	Solid	14-Aug-2018 09:53	14-Aug-2018 16:03
SO-TC-43B-081418	18H0190-02	Solid	14-Aug-2018 10:06	14-Aug-2018 16:03
SO-TC-43C-081418	18H0190-03	Solid	14-Aug-2018 10:16	14-Aug-2018 16:03



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:59

Case Narrative

Sample receipt

Samples as listed on the preceding page were received August 14, 2018 under ARI work order 18H0190. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD and Matrix Spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): _____ NA
Assigned ARI Job No: 18H0190

Project Name: _____
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 32.8°C
Time: 1603
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DO05206

Cooler Accepted by: JSW Date: 08/14/18 Time: 1603

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
Were all bottles sealed in individual plastic bags? YES NO
Did all bottles arrive in good condition (unbroken)? YES NO JSW
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JSW Date: 08/14/18 Time: 1750

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~2mm	Peabubbles 2-4 mm	LARGE Air Bubbles > 4 mm	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
-----------------------------------	------------------------------	--	--



Cooler Temperature Compliance Form

ARI Work Order: 18H0190

Cooler#: _____ Temperature(°C): 32.8°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received above 6°C

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: SSW

Date: 08/14/18

Time: 1603

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:59

SO-TC-43A-081418
18H0190-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/14/2018 09:53

Instrument: ICP2

Analyzed: 16-Aug-2018 15:21

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0406 Sample Size: 25 mL (wet)
Prepared: 16-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.170	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:59

SO-TC-43A-081418
18H0190-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/14/2018 09:53

Instrument: Accumet AR60

Analyzed: 16-Aug-2018 18:14

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BGH0424 Sample Size: 20.53 g (wet)
Prepared: 16-Aug-2018 Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.18	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:59

SO-TC-43B-081418
18H0190-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/14/2018 10:06

Instrument: ICP2

Analyzed: 16-Aug-2018 15:02

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0406 Sample Size: 25 mL (wet)
Prepared: 16-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.167	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0433	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:59

SO-TC-43B-081418
18H0190-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/14/2018 10:06

Instrument: Accumet AR60

Analyzed: 16-Aug-2018 18:14

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BGH0424 Sample Size: 20.23 g (wet)
Prepared: 16-Aug-2018 Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.33	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:59

SO-TC-43C-081418
18H0190-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/14/2018 10:16

Instrument: ICP2

Analyzed: 16-Aug-2018 15:07

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0406 Sample Size: 25 mL (wet)
Prepared: 16-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0697	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0235	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:59

SO-TC-43C-081418
18H0190-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/14/2018 10:16

Instrument: Accumet AR60

Analyzed: 16-Aug-2018 18:14

Sample Preparation:

Preparation Method: No Prep Wet Chem
Preparation Batch: BGH0424
Prepared: 16-Aug-2018

Sample Size: 20.54 g (wet)
Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.25	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:59

TCLP Metals and Metallic Compounds - Quality Control

Batch BGH0406 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGH0406-BLK1)						Prepared: 16-Aug-2018 Analyzed: 16-Aug-2018 14:46					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BGH0406-DUP1)						Source: 18H0190-01 Prepared: 16-Aug-2018 Analyzed: 16-Aug-2018 15:16					
Arsenic	0.181	0.0140	0.250	mg/L		0.170			6.44	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BGH0406-MS1)						Source: 18H0190-01 Prepared: 16-Aug-2018 Analyzed: 16-Aug-2018 15:25					
Arsenic	4.57	0.0140	0.250	mg/L	4.00	0.170	110	75-125			
Lead	4.04	0.0065	0.100	mg/L	4.00	ND	101	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:59

Wet Chemistry - Quality Control

Batch BGH0424 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: V

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGH0424-BS1)					Prepared: 16-Aug-2018 Analyzed: 16-Aug-2018 18:14				
pH	6.98	0.01	0.01	pH Units	7.00	99.7	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:59

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2018 12:59

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Soil to be disposed of at LRI

From David Bosch <DBosch@tpchd.org>

Date Tue 8/28/2018 11:20 AM

To jking perc-nw.com <jking@perc-nw.com>

Cc sduggan perc-nw.com <sduggan@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>; kking perc-nw.com <kking@perc-nw.com>

Jeff,

The Health Department has reviewed the two soil characterization data sets dated August 27, 2018. The soils associated with these characterizations are appropriate for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Tuesday, August 28, 2018 10:40 AM

To: David Bosch <DBosch@tpchd.org>

Cc: Steve Duggan <sduggan@perc-nw.com>; grimstedb@uspioneer.com; 'Kenny King' <kking@perc-nw.com>

Subject: Soil to be disposed of at LRI

David:

Attached are two more data packages for soil we propose for disposal at LRI. The table below summarizes the data. Each sample represents <25 CY of soil.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-44A-082018	0.394	ND	10.6
SO-TC-44B-082018	1.94	ND	10.0
SO-TC-44C-082018	0.463	ND	10.2
SO-TC-45A-082018	0.173	ND	9.54
SO-TC-45B-082018	0.138	ND	9.56
SO-TC-45C-082018	0.207	ND	9.46

Thanks again

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

27 August 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18H0259

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

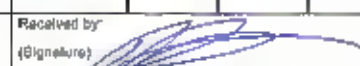
Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number 1840259		Turn-around Requested 3 Day		Date 8/20/2018		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)		
ARI Client Company: PERC		Phone: 425-346-0921		Page. of				
Client Contact: Kenny King				No. of Coolers: Cooler Temps:				
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	PH 9045C			
Sample ID	Date	Time	Matrix			No. Containers		
SO-TC-44A-082018	08/20/18	09:50	Soil	1	✓	✓		
SO-TC-44B-082018	08/20/18	10:00	Soil	1	✓	✓		
SO-TC-44C-082018	08/20/18	10:10	Soil	1	✓	✓		
Comments/Special Instructions	Relinquished by (Signature): 		Received by (Signature): 		Relinquished by (Signature):		Received by (Signature):	
	Printed Name: JEFF KING		Printed Name: Jasmine Bowman		Printed Name:		Printed Name:	
	Company: PERC		Company: ARI		Company:		Company:	
	Date & Time: 8/20/18 4:55		Date & Time: 8/20/18 16:55		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-44A-082018	18H0259-01	Solid	20-Aug-2018 09:50	20-Aug-2018 16:55
SO-TC-44B-082018	18H0259-02	Solid	20-Aug-2018 10:00	20-Aug-2018 16:55
SO-TC-44C-082018	18H0259-03	Solid	20-Aug-2018 10:10	20-Aug-2018 16:55



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:08

Case Narrative

Sample receipt

Samples as listed on the preceding page were received August 20, 2018 under ARI work order 18H0259. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

The Duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD and Matrix Spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client PERL

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No. 18H0259

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1655

27.70°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# pc0546

Cooler Accepted by: JUB

Date: 8/20/18 Time: 1655

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? _____ Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other Nothing

Was sufficient ice used (if appropriate)? _____

NA YES NO

Were all bottles sealed in individual plastic bags? _____

YES NO

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI _____

NA

Was Sample Split by ARI NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JUB Date: 8/20/18 Time: 1710

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~2mm 	Pea bubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Pea bubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
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Cooler Temperature Compliance Form

ARI Work Order: RHD259

Cooler#: Temperature(°C): 27.7°C
Sample ID Bottle Count Bottle Type

All Samples out of Temp

Cooler#: Temperature(°C):
Sample ID Bottle Count Bottle Type

Cooler#: Temperature(°C):
Sample ID Bottle Count Bottle Type

Cooler#: Temperature(°C):
Sample ID Bottle Count Bottle Type

Completed by: JTB Date: 8/20/18 Time: 1655
00070F Cooler Temperature Compliance Form



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:08

SO-TC-44A-082018
18H0259-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/20/2018 09:50

Instrument: ICP2

Analyzed: 23-Aug-2018 13:12

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0561 Sample Size: 25 mL (wet)
Prepared: 22-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.394	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:08

SO-TC-44A-082018
18H0259-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/20/2018 09:50

Instrument: Accumet AR60

Analyzed: 23-Aug-2018 13:45

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGH0599
Prepared: 23-Aug-2018

Sample Size: 20.41 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.6	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:08

SO-TC-44B-082018
18H0259-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/20/2018 10:00

Instrument: ICP2

Analyzed: 23-Aug-2018 11:51

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0561 Sample Size: 25 mL (wet)
Prepared: 22-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	1.94	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:08

SO-TC-44B-082018
18H0259-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/20/2018 10:00

Instrument: Accumet AR60

Analyzed: 23-Aug-2018 13:45

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGH0599
Prepared: 23-Aug-2018

Sample Size: 20.1 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.0	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:08

SO-TC-44C-082018
18H0259-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/20/2018 10:10

Instrument: ICP2

Analyzed: 23-Aug-2018 11:55

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0561 Sample Size: 25 mL (wet)
Prepared: 22-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.463	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:08

SO-TC-44C-082018
18H0259-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/20/2018 10:10

Instrument: Accumet AR60

Analyzed: 23-Aug-2018 13:45

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGH0599
Prepared: 23-Aug-2018

Sample Size: 20.97 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.2	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:08

TCLP Metals and Metallic Compounds - Quality Control

Batch BGH0561 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGH0561-BLK1)					Prepared: 22-Aug-2018 Analyzed: 23-Aug-2018 11:47						
Arsenic	0.0146	0.0140	0.250	mg/L							J
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BGH0561-DUP1)					Source: 18H0259-01 Prepared: 22-Aug-2018 Analyzed: 23-Aug-2018 13:07						
Arsenic	0.397	0.0140	0.250	mg/L		0.394			0.89	20	
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BGH0561-MS1)					Source: 18H0259-01 Prepared: 22-Aug-2018 Analyzed: 23-Aug-2018 13:16						
Arsenic	4.50	0.0140	0.250	mg/L	4.00	0.394	103	75-125			
Lead	3.85	0.0065	0.100	mg/L	4.00	ND	96.2	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:08

Wet Chemistry - Quality Control

Batch BGH0599 - EPA 9045D

Instrument: Accumet AR60 Analyst: V

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BGH0599-BS1)										
					Prepared: 23-Aug-2018 Analyzed: 23-Aug-2018 13:45					
pH	6.97	0.01	0.01	pH Units	7.00	99.6	0-200			
Duplicate (BGH0599-DUP1)										
					Source: 18H0259-01 Prepared: 23-Aug-2018 Analyzed: 23-Aug-2018 13:45					
pH	10.6	0.01	0.01	pH Units	10.6			0.19	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:08

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:08

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

27 August 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18H0261

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18H0261 Turn-around Requested: 3 Day

ARI Client Company: PERC Phone: 425-346-0921

Client Contact: Kenny King

Client Project Name: Superlon Plastics

Client Project #: SLON Samplers: King

Sample ID	Date	Time	Matrix	No. Containers
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SO-TC-45A-082018	08/20/18	14:30	Soil	1
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SO-TC-45B-082018	08/20/18	14:40	Soil	1
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SO-TC-45C-082018	08/20/18	14:50	Soil	1
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Date: 8/20/2018

Page: of

No. of Coolers: Cooler Temps:

Analysis Requested

TCLP 1311 As/Pb Only

PH 9045C



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-45A-082018	18H0261-01	Solid	20-Aug-2018 14:30	20-Aug-2018 16:55
SO-TC-45B-082018	18H0261-02	Solid	20-Aug-2018 14:40	20-Aug-2018 16:55
SO-TC-45C-082018	18H0261-03	Solid	20-Aug-2018 14:50	20-Aug-2018 16:55



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:13

Case Narrative

Sample receipt

Samples as listed on the preceding page were received August 20, 2018 under ARI work order 18H0261. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERL

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other _____

Assigned ARI Job No: BH0261

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1655

27.70°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 205226

Cooler Accepted by: JUB

Date: 8/20/18 Time: 1655

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other Nothing

Was sufficient ice used (if appropriate)? _____

NA YES NO

Were all bottles sealed in individual plastic bags? _____

YES NO

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)..

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI: _____

NA

Was Sample Split by ARI: NA

YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: JUB

Date: 8/20/18

Time: 1718

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles - 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
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ARI Work Order: 1540261

Cooler#: _____ Temperature(°C): 27.7°C

Sample ID	Bottle Count	Bottle Type
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All Samples out of Temp.

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
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Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
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Completed by: TJMS Date: 8/20/18 Time: 1658

00070F

Cooler Temperature Compliance Form



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:13

SO-TC-45A-082018
18H0261-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/20/2018 14:30

Instrument: ICP2

Analyzed: 23-Aug-2018 12:55

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0561 Sample Size: 25 mL (wet)
Prepared: 22-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.173	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:13

SO-TC-45A-082018
18H0261-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/20/2018 14:30

Instrument: Accumet AR60

Analyzed: 23-Aug-2018 13:45

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGH0599
Prepared: 23-Aug-2018

Sample Size: 20.83 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.54	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:13

SO-TC-45B-082018
18H0261-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/20/2018 14:40

Instrument: ICP2

Analyzed: 23-Aug-2018 12:59

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0561 Sample Size: 25 mL (wet)
Prepared: 22-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.138	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:13

SO-TC-45B-082018
18H0261-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/20/2018 14:40

Instrument: Accumet AR60

Analyzed: 23-Aug-2018 13:45

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGH0599
Prepared: 23-Aug-2018

Sample Size: 20.45 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.56	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:13

SO-TC-45C-082018
18H0261-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/20/2018 14:50

Instrument: ICP2

Analyzed: 23-Aug-2018 13:03

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0561 Sample Size: 25 mL (wet)
Prepared: 22-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.207	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:13

SO-TC-45C-082018
18H0261-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/20/2018 14:50

Instrument: Accumet AR60

Analyzed: 23-Aug-2018 13:45

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGH0599
Prepared: 23-Aug-2018

Sample Size: 20.04 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.46	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:13

TCLP Metals and Metallic Compounds - Quality Control

Batch BGH0561 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BGH0561-BLK1)					Prepared: 22-Aug-2018 Analyzed: 23-Aug-2018 11:47				
Arsenic	0.0146	0.0140	0.250	mg/L					J
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:13

Wet Chemistry - Quality Control

Batch BGH0599 - EPA 9045D

Instrument: Accumet AR60 Analyst: V

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Prepared: 23-Aug-2018 Analyzed: 23-Aug-2018 13:45									
LCS (BGH0599-BS1)									
pH	6.97	0.01	0.01	pH Units	7.00	99.6	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:13

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Aug-2018 09:13

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

From: David Bosch
To: [Jeffrey D King](#)
Subject: RE: Four data packages for soil from the Superlon Plastics Site that we hope to dispose of at LRI
Date: Tuesday, September 11, 2018 7:58:22 AM

Jeff,

The Health Department has reviewed the four data sets (two data sets dated September 4, 2018 and two data sets dated September 10, 2018) that you provided. The soils associated with these characterizations are appropriate for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>
Sent: Tuesday, September 11, 2018 7:13 AM
To: David Bosch <DBosch@tpchd.org>
Cc: Steve Duggan <sduggan@perc-nw.com>; 'Kenny King' <kking@perc-nw.com>; grimstedb@uspioneer.com
Subject: Four data packages for soil from the Superlon Plastics Site that we hope to dispose of at LRI

David:

Attached are four data packages for soil (from the Superlon Plastics Site) that we hope to dispose of at LRI. Each sample represents approximately 22 CY of soil. Please let us know if it is acceptable. The following table summarizes the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-47A-082718	0.0468	ND	9.7
SO-TC-47B-082718	0.626	ND	9.86
SO-TC-47C-082718	1.79	ND	10.1
SO-TC-48A-082818	0.0393	ND	9.62
SO-TC-48B-082818	0.046	ND	9.6
SO-TC-48C-082818	0.033	ND	9.56
SO-TC-49A-090418	0.0654	ND	8.82
SO-TC-49B-090418	0.146	ND	9.11
SO-TC-49C-090418	0.137	ND	9.46
SO-TC-50A-090518	0.0641	ND	9.04
SO-TC-50B-090518	0.0564	ND	9.15

SO-TC-5C-090518	0.0398	ND	9.06
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Thank you,

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

04 September 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18H0361

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client
Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.09.04 09:27:14 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Cert# 100006



Accreditation # 66169

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18H0361	Turn-around Requested: 5 Day	Date: 8/27/18
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 1 Cooler Temps: 21.4



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments				
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	PH 9045C										
Sample ID	Date	Time	Matrix	No. Containers												
SO-TC-47A-082718	08/27/18	09:20	Soil	1	✓	✓										
SO-TC-47B-082718	08/27/18	09:30	Soil	1	✓	✓										
SO-TC-47C-082718	08/27/18	09:40	Soil	1	✓	✓										
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Stephanie Fishel</i>			Relinquished by: (Signature)			Received by: (Signature)		
					Printed Name: Kenny King			Printed Name: Stephanie Fishel			Printed Name:			Printed Name:		
					Company: PERC			Company: ARI			Company:			Company:		
					Date & Time: 8/27/18 16:32			Date & Time: 8-27-18 16:32			Date & Time:			Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-47A-082718	18H0361-01	Solid	27-Aug-2018 09:20	27-Aug-2018 16:32
SO-TC-47B-082718	18H0361-02	Solid	27-Aug-2018 09:30	27-Aug-2018 16:32
SO-TC-47C-082718	18H0361-03	Solid	27-Aug-2018 09:40	27-Aug-2018 16:32



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:19

Case Narrative

Sample receipt

Samples as listed on the preceding page were received August 27, 2018 under ARI work order 18H0361. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry- pH

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD and Matrix Spike percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: Pesc
COC No(s): _____
Assigned ARI Job No: 18H0361

Project Name: _____
Delivered by: Fed-Ex UPS Container Head Delivered Other: _____
Tracking No: _____

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled-out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (*C) (recommended 2.0-6.0 *C for chemistry) 214
Time: 1632
If cooler temperature is out of compliance fill out form 00070F
Cooler Accepted by: Self Date: 8-27-18 Time: 1632 Temp Gun ID# 5

Complete custody forms and attach all shipping documents

Log-in Phase:

Was a temperature blank included in the cooler? ... YES NO
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? ... NA YES NO
Were all bottles sealed in individual plastic bags? ... YES NO
Did all bottles arrive in good condition (unbroken)? ... YES NO
Were all bottle labels complete and legible? ... YES NO
Did the number of containers listed on COC match with the number of containers received? ... YES NO
Did all bottle labels and tags agree with custody papers? ... YES NO
Were all bottles used correct for the requested analyses? ... YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO
Were all VOC vials free of air bubbles? ... NA YES NO
Was sufficient amount of sample sent in each bottle? ... YES NO
Date VOC Trip Blank was made at ARI: ... NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Self Date: 8-27-18 Time: 1719

** Notify Project Manager of discrepancies or concerns **

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm	Peabubbles 2-4 mm	LARGE Air Bubbles > 4 mm	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
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Cooler Temperature Compliance Form

Page 6 of 16 18H0361 ARISample FINAL 04 Sep 2018 0919



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:19

SO-TC-47A-082718
18H0361-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/27/2018 09:20

Instrument: ICP2

Analyzed: 31-Aug-2018 15:15

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0827 Sample Size: 25 mL (wet)
Prepared: 31-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0468	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:19

SO-TC-47A-082718
18H0361-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/27/2018 09:20

Instrument: Accumet AR60

Analyzed: 28-Aug-2018 12:55

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGH0722
Prepared: 28-Aug-2018

Sample Size: 20.94 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.70	pH Units	



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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:19

SO-TC-47B-082718
18H0361-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/27/2018 09:30

Instrument: ICP2

Analyzed: 31-Aug-2018 14:49

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0827 Sample Size: 25 mL (wet)
Prepared: 31-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.626	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:19

SO-TC-47B-082718
18H0361-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/27/2018 09:30

Instrument: Accumet AR60

Analyzed: 28-Aug-2018 12:55

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGH0722

Prepared: 28-Aug-2018

Sample Size: 20.39 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.86	pH Units	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:19

SO-TC-47C-082718
18H0361-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/27/2018 09:40

Instrument: ICP2

Analyzed: 31-Aug-2018 14:54

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0827 Sample Size: 25 mL (wet)
Prepared: 31-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	1.79	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:19

SO-TC-47C-082718
18H0361-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/27/2018 09:40

Instrument: Accumet AR60

Analyzed: 28-Aug-2018 12:55

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGH0722
Prepared: 28-Aug-2018

Sample Size: 20.31 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.1	pH Units	



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Project: Superlon Plastics
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Reported:
04-Sep-2018 09:19

TCLP Metals and Metallic Compounds - Quality Control

Batch BGH0827 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGH0827-BLK1)						Prepared: 31-Aug-2018 Analyzed: 31-Aug-2018 14:45					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	0.0073	0.0065	0.100	mg/L							J
Duplicate (BGH0827-DUP1)						Source: 18H0361-01 Prepared: 31-Aug-2018 Analyzed: 31-Aug-2018 15:11					
Arsenic	0.0158	0.0140	0.250	mg/L		0.0468			99.30	20	L, J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BGH0827-MS1)						Source: 18H0361-01 Prepared: 31-Aug-2018 Analyzed: 31-Aug-2018 15:19					
Arsenic	4.61	0.0140	0.250	mg/L	4.00	0.0468	114	75-125			
Lead	4.27	0.0065	0.100	mg/L	4.00	ND	107	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
04-Sep-2018 09:19

Wet Chemistry - Quality Control

Batch BGH0722 - EPA 9045D

Instrument: Accumet AR60 Analyst: V

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGH0722-BS1)									
Prepared: 28-Aug-2018 Analyzed: 28-Aug-2018 12:55									
pH	7.05	0.01	0.01	pH Units	7.00	101	0-200		



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Reported:
04-Sep-2018 09:19

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
04-Sep-2018 09:19

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

04 September 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18H0384

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc.,
ou=Client Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.09.04 09:27:43 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18H0384		Turn-around Requested: 5 Day		Date: 8/28/18		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of					
Client Contact: Kenny King		No. of Coolers: 27.7		Cooler Temps: 27.7					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	PH 9045C				
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-48A-082818	08/28/18	09:10	Soil	1	✓	✓			
SO-TC-48B-082818	08/28/18	09:20	Soil	1	✓	✓			
SO-TC-48C-082818	08/28/18	09:30	Soil	1	✓	✓			
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jasmine Rowman</i>		Relinquished by: (Signature)		Received by: (Signature)	
		Printed Name: Kenny King		Printed Name: Jasmine Rowman		Printed Name:		Printed Name:	
		Company: PERC		Company: ARI		Company:		Company:	
		Date & Time: 8/28/18 14:25		Date & Time: 8/28/18 1425		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-48A-082818	18H0384-01	Solid	28-Aug-2018 09:10	28-Aug-2018 14:25
SO-TC-48B-082818	18H0384-02	Solid	28-Aug-2018 09:20	28-Aug-2018 14:25
SO-TC-48C-082818	18H0384-03	Solid	28-Aug-2018 09:30	28-Aug-2018 14:25



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:23

Case Narrative

Sample receipt

Samples as listed on the preceding page were received August 28, 2018 under ARI work order 18H0384. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry- pH

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 18H0384

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1425

27.7°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: D 005206

Cooler Accepted by: JTB

Date: 8/28/18 Time: 1425

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES NO

Were all bottles sealed in individual plastic bags? _____

YES NO

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI: _____

NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

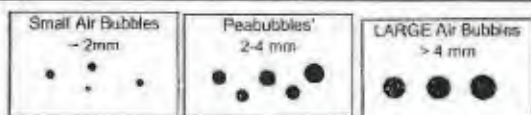
Samples Logged by: SBW Date: 08/28/18 Time: 1432

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Small → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:23

SO-TC-48A-082818
18H0384-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/28/2018 09:10

Instrument: ICP2

Analyzed: 31-Aug-2018 14:58

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0827 Sample Size: 25 mL (wet)
Prepared: 31-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0393	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:23

SO-TC-48A-082818
18H0384-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/28/2018 09:10

Instrument: Accumet AR60

Analyzed: 30-Aug-2018 13:30

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGH0798
Prepared: 30-Aug-2018

Sample Size: 20.16 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.62	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:23

SO-TC-48B-082818
18H0384-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/28/2018 09:20

Instrument: ICP2

Analyzed: 31-Aug-2018 15:02

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0827 Sample Size: 25 mL (wet)
Prepared: 31-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0460	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:23

SO-TC-48B-082818
18H0384-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/28/2018 09:20

Instrument: Accumet AR60

Analyzed: 30-Aug-2018 13:30

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGH0798
Prepared: 30-Aug-2018

Sample Size: 20.27 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.60	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:23

SO-TC-48C-082818
18H0384-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/28/2018 09:30

Instrument: ICP2

Analyzed: 31-Aug-2018 15:06

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGH0827 Sample Size: 25 mL (wet)
Prepared: 31-Aug-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0330	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:23

SO-TC-48C-082818
18H0384-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/28/2018 09:30

Instrument: Accumet AR60

Analyzed: 30-Aug-2018 13:30

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGH0798
Prepared: 30-Aug-2018

Sample Size: 20.01 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.56	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:23

TCLP Metals and Metallic Compounds - Quality Control

Batch BGH0827 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BGH0827-BLK1)					Prepared: 31-Aug-2018 Analyzed: 31-Aug-2018 14:45				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	0.0073	0.0065	0.100	mg/L					J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:23

Wet Chemistry - Quality Control

Batch BGH0798 - EPA 9045D

Instrument: Accumet AR60 Analyst: V

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGH0798-BS1)									
Prepared: 30-Aug-2018 Analyzed: 30-Aug-2018 13:30									
pH	7.00	0.01	0.01	pH Units	7.00	100	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:23

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



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8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2018 09:23

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

10 September 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18I0015

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client
Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.09.10 15:03:13 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18I0015		Turn-around Requested: 3 Day		Date: 9/4/18		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 425-346-0921		Page: 1 of 1									
Client Contact: Kenny King				No. of Coolers: 1 Cooler Temps: 23.3									
Client Project Name: Superlon Plastics						Analysis Requested		Notes/Comments					
Client Project #: SLON		Samplers: King				TCLP 1311 As/Pb Only PH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-49A-090418	09/04/18	08:50	Soil	1	✓		✓						
SO-TC-49B-090418	09/04/18	09:00	Soil	1	✓		✓						
SO-TC-49C-090418	09/04/18	09:10	Soil	1	✓		✓						
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Stephanie Fisher</i>			Relinquished by: (Signature)			Received by: (Signature)		
		Printed Name: <i>Kenny King</i>			Printed Name: <i>Stephanie Fisher</i>			Printed Name:			Printed Name:		
		Company: <i>PERC</i>			Company: <i>ARI</i>			Company:			Company:		
		Date & Time: <i>9/4/18 15:05</i>			Date & Time: <i>9-4-18 1505</i>			Date & Time:			Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 14:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-49A-090418	18I0015-01	Solid	04-Sep-2018 08:50	04-Sep-2018 15:05
SO-TC-49B-090418	18I0015-02	Solid	04-Sep-2018 09:00	04-Sep-2018 15:05
SO-TC-49C-090418	18I0015-03	Solid	04-Sep-2018 09:10	04-Sep-2018 15:05



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 14:46

Case Narrative

Sample receipt

Samples as listed on the preceding page were received September 4, 2018 under ARI work order 18I0015. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERL
COC No(s): _____ (NA)
Assigned ARI Job No: 1820015

Project Name: _____
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 23.3
Time: 1505
If cooler temperature is out of compliance fill out form 00070F
Cooler Accepted by: _____ Date: 9-4-18 Time: 1505 Temp Gun ID#: 2005206

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
Were all bottles sealed in individual plastic bags? YES NO
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JBW Date: 09/04/18 Time: 1517

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
---------------------------------------	---------------------------------	--	---



Cooler Temperature Compliance Form

ARI Work Order: 18I0015

Cooler#: 1 Temperature(°C): 23.3

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received
above 6°

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: Seif Date: 9-4-18 Time: 1505

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 14:46

SO-TC-49A-090418
18I0015-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/04/2018 08:50

Instrument: ICP2

Analyzed: 07-Sep-2018 14:50

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0110 Sample Size: 25 mL (wet)
Prepared: 06-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0654	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 14:46

SO-TC-49A-090418
18I0015-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/04/2018 08:50

Instrument: Accumet AR60

Analyzed: 07-Sep-2018 14:34

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGI0159
Prepared: 07-Sep-2018

Sample Size: 20.23 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.82	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 14:46

SO-TC-49B-090418
18I0015-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/04/2018 09:00

Instrument: ICP2

Analyzed: 07-Sep-2018 14:54

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0110 Sample Size: 25 mL (wet)
Prepared: 06-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.146	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 14:46

SO-TC-49B-090418
18I0015-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/04/2018 09:00

Instrument: Accumet AR60

Analyzed: 07-Sep-2018 14:34

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGI0159
Prepared: 07-Sep-2018

Sample Size: 20.8 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.11	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 14:46

SO-TC-49C-090418
18I0015-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/04/2018 09:10

Instrument: ICP2

Analyzed: 07-Sep-2018 17:02

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0110 Sample Size: 25 mL (wet)
Prepared: 06-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.137	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 14:46

SO-TC-49C-090418
18I0015-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/04/2018 09:10

Instrument: Accumet AR60

Analyzed: 07-Sep-2018 14:34

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGI0159
Prepared: 07-Sep-2018

Sample Size: 20.12 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.46	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 14:46

TCLP Metals and Metallic Compounds - Quality Control

Batch BGI0110 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BGI0110-BLK1)					Prepared: 06-Sep-2018 Analyzed: 07-Sep-2018 13:52				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 14:46

Wet Chemistry - Quality Control

Batch BGI0159 - EPA 9045D

Instrument: Accumet AR60 Analyst: V

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGI0159-BS1)									
					Prepared: 07-Sep-2018 Analyzed: 07-Sep-2018 14:34				
pH	6.97	0.01	0.01	pH Units	7.00	99.6	0-200		
Duplicate (BGI0159-DUP1)									
					Source: 18I0015-01 Prepared: 07-Sep-2018 Analyzed: 07-Sep-2018 14:34				
pH	8.84	0.01	0.01	pH Units	8.82	0.23	20		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 14:46

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 14:46

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



10 September 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18I0035

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client
Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.09.10 15:10:33 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

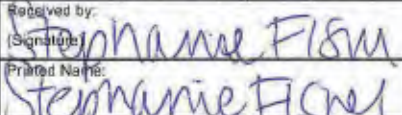
Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

DRAFT REPORT

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 1810035		Turn-around Requested: 2 Day		Date: 9/5/18		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)		
ARI Client Company: PERC		Phone: 425-346-0921		Page: of				
Client Contact: Kenny King		No. of Coolers: 1		Cooler Temps: 24.4				
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	PH 9045C			
Sample ID	Date	Time	Matrix	No. Containers				
SO-TC-50A-090518	09/05/18	09:00	Soil	1	✓	✓		
SO-TC-50B-090518	09/05/18	09:10	Soil	1	✓	✓		
SO-TC-50C-090518	09/05/18	09:20	Soil	1	✓	✓		
Comments/Special Instructions		Relinquished by:  (Signature) Printed Name: JEFF KING Company: PERC Date & Time: 9/5/18 4:05		Received by:  (Signature) Printed Name: Stephanie Fierman Company: ARI Date & Time: 9-5-18 1605		Relinquished by: (Signature) Printed Name: Company: Date & Time:		Received by: (Signature) Printed Name: Company: Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 15:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-50A-090518	18I0035-01	Solid	05-Sep-2018 09:00	05-Sep-2018 16:05
SO-TC-50B-090518	18I0035-02	Solid	05-Sep-2018 09:10	05-Sep-2018 16:05
SO-TC-50C-090518	18I0035-03	Solid	05-Sep-2018 09:20	05-Sep-2018 16:05

DRAFT REPORT

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 15:08

Case Narrative

Sample receipt

Samples as listed on the preceding page were received September 5, 2018 under ARI work order 18I0035. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: Perc
COC No(s): 1810035 NA
Assigned ARI Job No: 1810035

Project Name: _____
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 24.4
Time: 1605
If cooler temperature is out of compliance fill out form 00070F
Cooler Accepted by: Self Date: 9-5-18 Time: 1605 Temp Gun ID#: 17002565

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
Were all bottles sealed in individual plastic bags? YES NO
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____
Samples Logged by: Self Date: 9-5-18 Time: 1627

** Notify Project Manager of discrepancies or concerns **

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm	Peabubbles 2-4 mm	LARGE Air Bubbles > 4 mm	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
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Cooler Temperature Compliance Form

ARI Work Order: 1810035

Cooler#: 1 Temperature(°C): 24.4

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6'*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: Sef Date: 9-5-16 Time: 1605

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 15:08

SO-TC-50A-090518
18I0035-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/05/2018 09:00

Instrument: ICP2

Analyzed: 10-Sep-2018 14:19

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0150 Sample Size: 25 mL (wet)
Prepared: 07-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0641	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U

DRAFT REPORT

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 15:08

SO-TC-50A-090518
18I0035-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/05/2018 09:00

Instrument: Accumet AR60

Analyzed: 07-Sep-2018 14:34

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BGI0159
Prepared: 07-Sep-2018

Sample Size: 20.81 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.04	pH Units	

DRAFT REPORT

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PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 15:08

SO-TC-50B-090518
18I0035-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/05/2018 09:10

Instrument: ICP2

Analyzed: 10-Sep-2018 14:23

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0150 Sample Size: 25 mL (wet)
Prepared: 07-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0564	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U

DRAFT REPORT

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PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 15:08

SO-TC-50B-090518
18I0035-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/05/2018 09:10

Instrument: Accumet AR60

Analyzed: 07-Sep-2018 14:34

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGI0159

Prepared: 07-Sep-2018

Sample Size: 20.03 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.15	pH Units	

DRAFT REPORT

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PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 15:08

SO-TC-50C-090518
18I0035-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/05/2018 09:20

Instrument: ICP2

Analyzed: 10-Sep-2018 14:28

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0150 Sample Size: 25 mL (wet)
Prepared: 07-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0398	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U

DRAFT REPORT

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PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 15:08

SO-TC-50C-090518
18I0035-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/05/2018 09:20

Instrument: Accumet AR60

Analyzed: 07-Sep-2018 14:34

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGI0159
Prepared: 07-Sep-2018

Sample Size: 20.14 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.06	pH Units	

DRAFT REPORT

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PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 15:08

Wet Chemistry - Quality Control

Batch BGI0159 - EPA 9045D

Instrument: Accumet AR60 Analyst: V

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGI0159-BS1)					Prepared: 07-Sep-2018 Analyzed: 07-Sep-2018 14:34				
pH	6.97	0.01	0.01	pH Units	7.00	99.6	0-200		

DRAFT REPORT

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PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 15:08

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Sep-2018 15:08

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: DATA PACKAGES

From David Bosch <DBosch@tpchd.org>

Date Mon 9/17/2018 2:00 PM

To jking perc-nw.com <jking@perc-nw.com>

Cc sduggan perc-nw.com <sduggan@perc-nw.com>; kking perc-nw.com <kking@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

Jeff,

Thank you for the submittal of the three data sets (one dated September 14th and two dated September 17th). The soils associated with these testing characterizations are acceptable for disposal at the LRI Landfill.

Just curious: how far along are you with this project?

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Monday, September 17, 2018 12:48 PM

To: David Bosch <DBosch@tpchd.org>

Cc: Steve Duggan <sduggan@perc-nw.com>; 'Kenny King' <kking@perc-nw.com>; grimstedb@uspioneer.com

Subject: DATA PACKAGES

David:

Attached are three data packages for soils we hope to disposal of at LRI. Each sample represents approximately 22 CY. The following table presents the data. Please let us know if they are acceptable.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-51A-091018	0.144	ND	8.55
SO-TC-51B-091018	0.197	ND	8.76
SO-TC-51C-091018	0.169	ND	8.95
SO-TC-52A-091118	0.0862	ND	9.05
SO-TC-52B-091118	0.0841	ND	9.05
SO-TC-52C-091118	0.043	ND	9.32

SO-TC-53A-091118	0.124	ND	9.11
SO-TC-53B-091118	0.138	ND	8.99
SO-TC-53C-091118	0.0611	ND	9.19

Thanks as always.

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

14 September 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
1810095

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 1810095		Turn-around Requested: 3 Day		Date: 9/10/2018		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 425-346-0921		Page: of									
Client Contact: Kenny King				No. of Coolers: 1 Cooler Temps: 23.7									
Client Project Name: Superlon Plastics				Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		PH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-51A-091018	09/10/18	09:00	Soil	1	✓	✓							
SO-TC-51B-091018	09/10/18	09:10	Soil	1	✓	✓							
SO-TC-51C-091018	09/10/18	09:20	Soil	1	✓	✓							
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Stephanie Finkel</i>		Relinquished by: (Signature)		Received by: (Signature)					
		Printed Name: <i>Kenny King</i>		Printed Name: <i>Stephanie Finkel</i>		Printed Name:		Printed Name:					
		Company: <i>PERC</i>		Company: <i>ARI</i>		Company:		Company:					
		Date & Time: <i>9/10/18 15:37</i>		Date & Time: <i>9-10-18 1537</i>		Date & Time:		Date & Time:					

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2018 14:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-51A-091018	18I0095-01	Solid	10-Sep-2018 09:00	10-Sep-2018 15:37
SO-TC-51B-091018	18I0095-02	Solid	10-Sep-2018 09:10	10-Sep-2018 15:37
SO-TC-51C-091018	18I0095-03	Solid	10-Sep-2018 09:20	10-Sep-2018 15:37



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2018 14:39

Case Narrative

Sample receipt

One sample as listed on the preceding page was received September 10, 2018 under ARI work order 18I0095. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: perc
COC No(s): NA
Assigned ARI Job No: 1810095

Project Name: _____
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 23.7
Time 1537
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: D002561
Cooler Accepted by: SeF Date: 9-10-18 Time: 1537

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Beagles Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
Were all bottles sealed in individual plastic bags? YES NO
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? NA YES NO
Date VOC Trip Blank was made at ARI NA
Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by JTB Date: 9/10/18 Time: 1548

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles = 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
---------------------------------------	---------------------------------	--	---



Cooler Temperature Compliance Form

ARI Work Order: <u>1810095</u>		
Cooler#: <u>1</u>		Temperature(°C): <u>23.7</u>
Sample ID	Bottle Count	Bottle Type
<u>Samples received</u> <u>above 6"</u>		
Cooler#: _____		Temperature(°C): _____
Sample ID	Bottle Count	Bottle Type
Cooler#: _____		Temperature(°C): _____
Sample ID	Bottle Count	Bottle Type
Cooler#: _____		Temperature(°C): _____
Sample ID	Bottle Count	Bottle Type

Completed by: Colt

Date: 9-10-19 Time: 1537

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2018 14:39

SO-TC-51A-091018
18I0095-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/10/2018 09:00

Instrument: ICP2

Analyzed: 13-Sep-2018 14:21

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0260 Sample Size: 25 mL (wet)
Prepared: 12-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.144	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2018 14:39

SO-TC-51A-091018
18I0095-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/10/2018 09:00

Instrument: Accumet AR60

Analyzed: 12-Sep-2018 11:11

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGI0255
Prepared: 12-Sep-2018

Sample Size: 20.31 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.55	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2018 14:39

SO-TC-51B-091018
18I0095-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/10/2018 09:10

Instrument: ICP2

Analyzed: 13-Sep-2018 14:25

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0260 Sample Size: 25 mL (wet)
Prepared: 12-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.197	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2018 14:39

SO-TC-51B-091018
18I0095-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/10/2018 09:10

Instrument: Accumet AR60

Analyzed: 12-Sep-2018 11:11

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGI0255
Prepared: 12-Sep-2018

Sample Size: 20.29 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.76	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2018 14:39

SO-TC-51C-091018
18I0095-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/10/2018 09:20

Instrument: ICP2

Analyzed: 13-Sep-2018 14:29

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0260 Sample Size: 25 mL (wet)
Prepared: 12-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.169	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2018 14:39

SO-TC-51C-091018
18I0095-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/10/2018 09:20

Instrument: Accumet AR60

Analyzed: 12-Sep-2018 11:11

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGI0255

Prepared: 12-Sep-2018

Sample Size: 20.83 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.95	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2018 14:39

TCLP Metals and Metallic Compounds - Quality Control

Batch BGI0260 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BGI0260-BLK1)					Prepared: 12-Sep-2018 Analyzed: 13-Sep-2018 13:10				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2018 14:39

Wet Chemistry - Quality Control

Batch BGI0255 - EPA 9045D

Instrument: Accumet AR60 Analyst: V

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGI0255-BS1)					Prepared: 12-Sep-2018 Analyzed: 12-Sep-2018 11:11				
pH	6.97	0.01	0.01	pH Units	7.00	99.6	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2018 14:39

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2018 14:39

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

17 September 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
1810127

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 1810127	Turn-around Requested: 3 Day
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ARI Client Company: PERC	Phone: 425-346-0921
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Client Contact: Kenny King

Client Project Name: Superlon Plastics
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Client Project #: SLON	Samplers: King
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Sample ID	Date	Time	Matrix	No. Containers
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SO-TC-52A-091118	09/11/18	08:45	Soil	1
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SO-TC-52B-091118	09/11/18	08:55	Soil	1
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SO-TC-52C-091118	09/11/18	09:05	Soil	1
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Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>	Received by: (Signature) <i>Stephanie Fisher</i>
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	Printed Name: Kenny King	Printed Name: Stephanie Fisher
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	Company: PERC	Company: ARI
--	-------------------------	------------------------

	Date & Time: 9/11/18 17:00	Date & Time: 9-11-18 1700
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Date: 9/11/2018

Page: of

No. of Coolers: 1	Cooler Temps: 22.1
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Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Analysis Requested								Notes/Comments
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TCLP 1311 As/Pb Only	PH 9045C							
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✓	✓							
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✓	✓							
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✓	✓							
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Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-52A-091118	18I0127-01	Solid	11-Sep-2018 08:45	11-Sep-2018 17:00
SO-TC-52B-091118	18I0127-02	Solid	11-Sep-2018 08:55	11-Sep-2018 17:00
SO-TC-52C-091118	18I0127-03	Solid	11-Sep-2018 09:05	11-Sep-2018 17:00



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:55

Case Narrative

Sample receipt

One sample as listed on the preceding page was received September 11, 2018 under ARI work order 18I0127. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: Perc

COC No(s): _____

Assigned ARI Job No: 1810127

Project Name: _____

Delivered by: Fed-Ex UPS Courier Hand Delivered Other _____

Tracking No: _____

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES

NO

Were custody papers included with the cooler? _____

YES

NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES

NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry) _____

Time: 1700

221

If cooler temperature is out of compliance fill out form Q0070F

Temp Gun ID# DUNSES

Cooler Accepted by: Set Date: 9-11-18 Time: 221 1700

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____ YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other _____

Was sufficient ice used (if appropriate)? _____ NA YES NO

Were all bottles sealed in individual plastic bags? _____ YES NO

Did all bottles arrive in good condition (unbroken)? _____ YES NO

Were all bottle labels complete and legible? _____ YES NO

Did the number of containers listed on COC match with the number of containers received? _____ YES NO

Did all bottle labels and tags agree with custody papers? _____ YES NO

Were all bottles used correct for the requested analyses? _____ YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? _____ NA YES NO

Was sufficient amount of sample sent in each bottle? _____ YES NO

Date VOC Trip Blank was made at ARI... NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Set Date: 9-11-18 Time: 1713

Notify Project Manager of discrepancies or concerns

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions

By: _____ Date: _____

Small Air Bubbles - 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
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Cooler Temperature Compliance Form

ARI Work Order: <u>1810127</u>		
Cooler#:	Temperature(°C): <u>22.1</u>	
Sample ID	Bottle Count	Bottle Type
Samples received above 6°		
Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type
Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type
Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type

Completed by:

Get

Date:

9-11-18

Time:

1700

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:55

SO-TC-52A-091118
18I0127-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/11/2018 08:45

Instrument: ICP2 Analyst: MCB

Analyzed: 13-Sep-2018 19:54

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0296 Sample Size: 25 mL (wet)
Prepared: 13-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0862	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:55

SO-TC-52A-091118
18I0127-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/11/2018 08:45

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 12-Sep-2018 11:11

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BGI0255 Sample Size: 20.35 g (wet)
Prepared: 12-Sep-2018 Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.05	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:55

SO-TC-52B-091118
18I0127-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/11/2018 08:55

Instrument: ICP2 Analyst: MCB

Analyzed: 13-Sep-2018 19:58

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0296 Sample Size: 25 mL (wet)
Prepared: 13-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0841	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:55

SO-TC-52B-091118
18I0127-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/11/2018 08:55

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 12-Sep-2018 11:11

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGI0255
Prepared: 12-Sep-2018

Sample Size: 20.5 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.05	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:55

SO-TC-52C-091118
18I0127-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/11/2018 09:05

Instrument: ICP2 Analyst: MCB

Analyzed: 13-Sep-2018 20:35

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0296 Sample Size: 25 mL (wet)
Prepared: 13-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0430	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:55

SO-TC-52C-091118
18I0127-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/11/2018 09:05

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 12-Sep-2018 11:11

Sample Preparation:

Preparation Method: EPA 9045D
Preparation Batch: BGI0255
Prepared: 12-Sep-2018

Sample Size: 20.06 g (wet)
Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.32	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:55

TCLP Metals and Metallic Compounds - Quality Control

Batch BGI0296 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BGI0296-BLK1)					Prepared: 13-Sep-2018 Analyzed: 13-Sep-2018 19:50					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:55

Wet Chemistry - Quality Control

Batch BGI0255 - EPA 9045D

Instrument: Accumet AR60 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGI0255-BS1)					Prepared: 12-Sep-2018 Analyzed: 12-Sep-2018 11:11				
pH	6.97	0.01	0.01	pH Units	7.00	99.6	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:55

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:55

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

17 September 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
1810128

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 1810128		Turn-around Requested: 3 Day		Date: 9/11/2018		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)		
ARI Client Company: PERC		Phone: 425-346-0921		Page: 1 of 1				
Client Contact: Kenny King				No. of Coolers: 1 Cooler Temps: 22.1				
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	PH 9045C			
Sample ID	Date	Time	Matrix	No. Containers				
SO-TC-53A-091118	09/11/18	15:00	Soil	1	✓	✓		
SO-TC-53B-091118	09/11/18	15:10	Soil	1	✓	✓		
SO-TC-53C-091118	09/11/18	15:20	Soil	1	✓	✓		
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Stephanie Fisner</i>		
				Printed Name: <i>Kenny King</i>		Printed Name: <i>Stephanie Fisner</i>		
				Company: <i>PERC</i>		Company: <i>ARI</i>		
				Date & Time: <i>9/11/18 17:01</i>		Date & Time: <i>9-11-18 1700</i>		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-53A-091118	18I0128-01	Solid	11-Sep-2018 15:00	11-Sep-2018 17:00
SO-TC-53B-091118	18I0128-02	Solid	11-Sep-2018 15:10	11-Sep-2018 17:00
SO-TC-53C-091118	18I0128-03	Solid	11-Sep-2018 15:20	11-Sep-2018 17:00



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:56

Case Narrative

Sample receipt

One sample as listed on the preceding page was received September 11, 2018 under ARI work order 18I0128. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: Perc

COC No(s): _____

Assigned ARI Job No: 1810128

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? _____

Were custody papers included with the cooler? _____

Were custody papers properly filled out (ink, signed, etc.) _____

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry) _____

Time 1700

If cooler temperature is out of compliance fill out form 00070F

Project Name: _____

Delivered by: Fed-Ex UPS Courier Hand Delivered Other

Tracking No: _____

YES

NO

YES

NO

YES

NO

Temp Gun ID: D102565

Cooler Accepted by Self Date: 9-11-18 Time: 224 1700

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____ YES NO

What kind of packing material was used? _____ Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____ NA YES NO

Were all bottles sealed in individual plastic bags? _____ YES NO

Did all bottles arrive in good condition (unbroken)? _____ YES NO

Were all bottle labels complete and legible? _____ YES NO

Did the number of containers listed on COC match with the number of containers received? _____ YES NO

Did all bottle labels and tags agree with custody papers? _____ YES NO

Were all bottles used correct for the requested analyses? _____ YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) _____ NA YES NO

Were all VOC vials free of air bubbles? _____ NA YES NO

Was sufficient amount of sample sent in each bottle? _____ YES NO

Date VOC Trip Blank was made at ARI _____ NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Self Date 9-11-18 Time 1716

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles = 2 mm 	Peabubbles 2-3 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
--	---------------------------------	--	---



Cooler Temperature Compliance Form

Completed by:
00070F



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:56

SO-TC-53A-091118
18I0128-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/11/2018 15:00

Instrument: ICP2 Analyst: MCB

Analyzed: 13-Sep-2018 20:40

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0296 Sample Size: 25 mL (wet)
Prepared: 13-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.124	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:56

SO-TC-53A-091118
18I0128-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/11/2018 15:00

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 12-Sep-2018 11:11

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGI0255

Prepared: 12-Sep-2018

Sample Size: 20.47 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.11	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:56

SO-TC-53B-091118
18I0128-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/11/2018 15:10

Instrument: ICP2 Analyst: MCB

Analyzed: 13-Sep-2018 20:44

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0296 Sample Size: 25 mL (wet)
Prepared: 13-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.138	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:56

SO-TC-53B-091118
18I0128-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/11/2018 15:10

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 12-Sep-2018 11:11

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BGI0255 Sample Size: 20.77 g (wet)
Prepared: 12-Sep-2018 Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.99	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:56

SO-TC-53C-091118
18I0128-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/11/2018 15:20

Instrument: ICP2 Analyst: MCB

Analyzed: 13-Sep-2018 20:48

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0296 Sample Size: 25 mL (wet)
Prepared: 13-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0611	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:56

SO-TC-53C-091118
18I0128-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/11/2018 15:20

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 12-Sep-2018 11:11

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BGI0255 Sample Size: 20.01 g (wet)
Prepared: 12-Sep-2018 Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.19	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:56

TCLP Metals and Metallic Compounds - Quality Control

Batch BGI0296 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BGI0296-BLK1)					Prepared: 13-Sep-2018 Analyzed: 13-Sep-2018 19:50					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:56

Wet Chemistry - Quality Control

Batch BGI0255 - EPA 9045D

Instrument: Accumet AR60 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGI0255-BS1)					Prepared: 12-Sep-2018 Analyzed: 12-Sep-2018 11:11				
pH	6.97	0.01	0.01	pH Units	7.00	99.6	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:56

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Sep-2018 08:56

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Oops one more for your approval

From David Bosch <DBosch@tpchd.org>

Date Mon 9/24/2018 1:22 PM

To jking perc-nw.com <jking@perc-nw.com>

Cc grimstedb@uspioneer.com <grimstedb@uspioneer.com>; sduggan perc-nw.com <sduggan@perc-nw.com>; kking perc-nw.com <kking@perc-nw.com>

Jeff,

The Health Department has reviewed the two data sets dated September 21, 2018 and one data set dated September 24, 2018. The soils associated with these characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Monday, September 24, 2018 12:45 PM

To: David Bosch <DBosch@tpchd.org>

Cc: grimstedb@uspioneer.com; Steve Duggan <sduggan@perc-nw.com>; 'Kenny King' <kking@perc-nw.com>

Subject: Oops one more for your approval

David:

This data package just showed up and I thought I would try to get it to you before you looked at the two I send this morning. I did not expect to get it until later this week. The data are:

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-56A-091818	0.0842	ND	9.05
SO-TC-56B-091818	0.0759	ND	8.83
SO-TC-56C-091818	0.0747	ND	9.05

Thanks;

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Outlook

Two Data Packages that we hope to dispose of at LRI

From jking perc-nw.com <jking@perc-nw.com>

Date Mon 9/24/2018 8:51 AM

To David Bosch <DBosch@tpchd.org>

Cc grimstedb@uspioneer.com <grimstedb@uspioneer.com>; kking perc-nw.com <kking@perc-nw.com>;
sduggan perc-nw.com <sduggan@perc-nw.com>

 2 attachments (2 MB)

18I0245 ARISample FINAL 21 Sep 2018 1053.pdf; 18I0246 ARISample FINAL 21 Sep 2018 1058.pdf;

David:

Attached are two more data sheets for your approval. The following table lists the data results.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-54A-091718	0.0797	ND	8.99
SO-TC-54B-091718	0.0818	ND	8.90
SO-TC-54C-091718	0.0756	ND	8.95
SO-TC-55A-091718	0.32	3.4	8.43
SO-TC-55B-091718	0.176	1.71	8.35

Thanks again.

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

21 September 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
1810245

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client
Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.09.21 11:00:16 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclosed Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 1816245	Turn-around Requested: 3 Day
--	-------------------------------------

ARI Client Company: PERC	Phone: 425-346-0921
------------------------------------	----------------------------

Client Contact: Kenny King

Client Project Name: Superlon Plastics
--

Client Project #: SLON	Samplers: King
----------------------------------	--------------------------

Sample ID	Date	Time	Matrix	No. Containers
SO-TC-54A-091718	09/17/18	08:00	Soil	1
SO-TC-54B-091718	09/17/17	08:10	Soil	1
SO-TC-54C-091718	09/17/18	08:20	Soil	1

Date: 9/17/18

Page: of

No. of Coolers:	Cooler Temps: 23.6
-----------------	---------------------------



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Analysis Requested							Notes/Comments	
TCLP 1311 As/Pb Only	PH 9045C							
✓	✓							
✓	✓							
✓	✓							

Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>	Received by: (Signature) <i>Jasmine Burman</i>	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Kenny King	Printed Name: Jasmine Burman	Printed Name:	Printed Name:
	Company: PERC	Company: ARI	Company:	Company:
	Date & Time: 9/17/18 17:02	Date & Time: 9/17/18 1702	Date & Time:	Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-54A-091718	18I0245-01	Solid	17-Sep-2018 08:00	17-Sep-2018 17:02
SO-TC-54B-091718	18I0245-02	Solid	17-Sep-2018 08:10	17-Sep-2018 17:02
SO-TC-54C-091718	18I0245-03	Solid	17-Sep-2018 08:20	17-Sep-2018 17:02



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:53

Case Narrative

Sample receipt

Samples as listed on the preceding page were received September 17, 2018 under ARI work order 18I0245. For details regarding sample receipt, please refer to the Cooler Receipt Form.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 1810245

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1702

23.6 °C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DMS206

Cooler Accepted by: JVB

Date: 9/17/18

Time: 1702

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JVB Date: 9/17/18 Time: 1710

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles → 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles → 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
---------------------------------------	---------------------------------	--	---



Cooler Temperature Compliance Form

ARI Work Order: <u>1810245</u>		
Cooler#: _____ Temperature(°C): _____		
Sample ID	Bottle Count	Bottle Type
Samples out of Temp		
Cooler#: _____ Temperature(°C): _____		
Sample ID	Bottle Count	Bottle Type
Cooler#: _____ Temperature(°C): _____		
Sample ID	Bottle Count	Bottle Type
Cooler#: _____ Temperature(°C): _____		
Sample ID	Bottle Count	Bottle Type

Completed by: JLB Date: 9/17/18 Time: 1702
00070F Cooler Temperature Compliance Form Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:53

SO-TC-54A-091718
18I0245-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/17/2018 08:00

Instrument: ICP2 Analyst: MCB

Analyzed: 20-Sep-2018 13:30

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0482 Sample Size: 25 mL (wet)
Prepared: 19-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0797	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:53

SO-TC-54A-091718
18I0245-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/17/2018 08:00

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 20-Sep-2018 12:06

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGI0537

Prepared: 20-Sep-2018

Sample Size: 20.52 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.99	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:53

SO-TC-54B-091718
18I0245-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/17/2018 08:10

Instrument: ICP2 Analyst: MCB

Analyzed: 20-Sep-2018 13:34

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0482 Sample Size: 25 mL (wet)
Prepared: 19-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0818	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:53

SO-TC-54B-091718
18I0245-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/17/2018 08:10

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 20-Sep-2018 12:06

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGI0537

Prepared: 20-Sep-2018

Sample Size: 20.43 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.90	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:53

SO-TC-54C-091718
18I0245-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/17/2018 08:20

Instrument: ICP2 Analyst: MCB

Analyzed: 20-Sep-2018 13:38

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0482 Sample Size: 25 mL (wet)
Prepared: 19-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0756	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:53

SO-TC-54C-091718
18I0245-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/17/2018 08:20

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 20-Sep-2018 12:06

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGI0537

Prepared: 20-Sep-2018

Sample Size: 20.47 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.95	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:53

TCLP Metals and Metallic Compounds - Quality Control

Batch BGI0482 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGI0482-BLK1)						Prepared: 19-Sep-2018 Analyzed: 20-Sep-2018 13:13					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:53

Wet Chemistry - Quality Control

Batch BGI0537 - EPA 9045D

Instrument: Accumet AR60 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGI0537-BS1)									
Prepared: 20-Sep-2018 Analyzed: 20-Sep-2018 12:06									
pH	6.98	0.01	0.01	pH Units	7.00	99.7	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:53

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:53

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

21 September 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
1810246

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client Services,
cn=Shelly Fishel, email=shelly.fishel@arilabs.com
Date: 2018.09.21 11:00:54 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: B10246	Turn-around Requested: 3 Day	Date: 9/17/18
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: Cooler Temps: 23.4



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	PH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-55A-091718	09/17/18	13:00	Soil	1	✓	✓							
SO-TC-55B-091718	09/17/17	13:30	Soil	1	✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jasmine Bawmen</i>		Relinquished by: (Signature)		Received by: (Signature)		
					Printed Name: Kenny King		Printed Name: Jasmine Bawmen		Printed Name:		Printed Name:		
					Company: PERC		Company: ARI		Company:		Company:		
					Date & Time: 9/17/18 17:02		Date & Time: 9/17/18 1702		Date & Time:		Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-55A-091718	18I0246-01	Solid	17-Sep-2018 13:00	17-Sep-2018 17:02
SO-TC-55B-091718	18I0246-02	Solid	17-Sep-2018 13:30	17-Sep-2018 17:02



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:58

Case Narrative

Sample receipt

Samples as listed on the preceding page were received September 17, 2018 under ARI work order 18I0246. For details regarding sample receipt, please refer to the Cooler Receipt Form.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 1810246

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1702

23.6 °C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 1005206

Cooler Accepted by: JUB

Date: 9/17/18

Time: 1702

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? _____ Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? _____

NA YES NO

Were all bottles sealed in individual plastic bags? _____

YES NO

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI: _____

NA

Was Sample Split by ARI: NA YES Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: JUB

Date: 9/17/18

Time: 1713

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles → 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles ≥ 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
---------------------------------------	---------------------------------	--	---



Cooler Temperature Compliance Form

ARI Work Order: 1810246

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples out of temp.

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: TJB Date: 9/17/18 Time: 1702

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:58

SO-TC-55A-091718
18I0246-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/17/2018 13:00

Instrument: ICP2 Analyst: MCB

Analyzed: 19-Sep-2018 19:14

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0482 Sample Size: 25 mL (wet)
Prepared: 19-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.320	mg/L	
Lead	7439-92-1	5	0.0065	0.100	3.40	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:58

SO-TC-55A-091718
18I0246-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/17/2018 13:00

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 20-Sep-2018 12:06

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGI0537

Prepared: 20-Sep-2018

Sample Size: 20.83 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.43	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:58

SO-TC-55B-091718
18I0246-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/17/2018 13:30

Instrument: ICP2 Analyst: MCB

Analyzed: 19-Sep-2018 19:18

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGI0482 Sample Size: 25 mL (wet)
Prepared: 19-Sep-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.176	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	1.71	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:58

SO-TC-55B-091718
18I0246-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/17/2018 13:30

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 20-Sep-2018 12:06

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGI0537

Prepared: 20-Sep-2018

Sample Size: 20.99 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.35	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:58

TCLP Metals and Metallic Compounds - Quality Control

Batch BGI0482 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BGI0482-BLK1)					Prepared: 19-Sep-2018 Analyzed: 20-Sep-2018 13:13				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:58

Wet Chemistry - Quality Control

Batch BGI0537 - EPA 9045D

Instrument: Accumet AR60 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGI0537-BS1)									
Prepared: 20-Sep-2018 Analyzed: 20-Sep-2018 12:06									
pH	6.98	0.01	0.01	pH Units	7.00	99.7	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:58

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Sep-2018 10:58

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

24 September 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
1810278

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 1870278		Turn-around Requested: 2 Day			Date: 9/19/18		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)						
ARI Client Company: PERC		Phone: 425-346-0921			Page: of								
Client Contact: Kenny King					No. of Coolers: 2 Cooler Temps: 22.9°C								
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments	
Client Project #: SLON		Samplers: Duggan			TCLP 1311 As/Pb Only	PH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-56A-091818	09/18/18	14:00	Soil	1	✓	✓							
SO-TC-56B-091818	09/18/18	14:10	Soil	1	✓	✓							
SO-TC-56C-091818	09/18/18	14:20	Soil	1	✓	✓							
Comments/Special Instructions		Relinquished by: (Signature) <i>[Signature]</i>		Received by: (Signature) <i>[Signature]</i>		Relinquished by: (Signature)		Received by: (Signature)					
		Printed Name: Jeff King		Printed Name: Jacob Walter		Printed Name:		Printed Name:					
		Company: PERC		Company: ARI		Company:		Company:					
		Date & Time: 9/19/18 13:12		Date & Time: 09/19/18 13:12		Date & Time:		Date & Time:					

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Sep-2018 11:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-56A-091818	18I0278-01	Solid	18-Sep-2018 14:00	19-Sep-2018 13:12
SO-TC-56B-091818	18I0278-02	Solid	18-Sep-2018 14:10	19-Sep-2018 13:12
SO-TC-56C-091818	18I0278-03	Solid	18-Sep-2018 14:20	19-Sep-2018 13:12



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Sep-2018 11:45

Case Narrative

Sample receipt

Samples as listed on the preceding page were received September 19, 2018 under ARI work order 18I0278. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD and Matrix Spike percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ NA

Delivered by Fed-Ex UPS Courier Hand Delivered Other _____

Assigned ARI Job No. 1810278

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry) 22.9C

Time: 1312

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 2005206

Cooler Accepted by: JSW

Date: 09/19/18

Time: 1312

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Bagged Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Was Sample Split by ARI? NA YES Date/Time: _____ Equipment _____ Split by: _____

Samples Logged by: JSW Date: 09/19/18 Time: 1324

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles - 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
---------------------------------------	---------------------------------	--	---



Cooler Temperature Compliance Form

Completed by: J Sn Date: 09/09/18 Time: 1312



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Sep-2018 11:45

SO-TC-56A-091818
18I0278-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/18/2018 14:00

Instrument: ICP2 Analyst: MCB

Analyzed: 21-Sep-2018 15:43

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Preparation Batch: BGI0542

Sample Size: 25 mL (wet)

Dry Weight: 17.77 mL

Prepared: 20-Sep-2018

Final Volume: 25 mL

% Solids: 71.10

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0842	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Sep-2018 11:45

SO-TC-56A-091818
18I0278-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/18/2018 14:00

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 20-Sep-2018 12:06

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGI0537

Prepared: 20-Sep-2018

Sample Size: 20.33 g (wet)

Final Volume: 20 mL

Dry Weight: 14.45 g

% Solids: 71.10

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.05	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Sep-2018 11:45

SO-TC-56B-091818
18I0278-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/18/2018 14:10

Instrument: ICP2 Analyst: MCB

Analyzed: 21-Sep-2018 14:44

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Preparation Batch: BGI0542

Sample Size: 25 mL (wet)

Dry Weight: 18.01 mL

Prepared: 20-Sep-2018

Final Volume: 25 mL

% Solids: 72.03

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0759	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Sep-2018 11:45

SO-TC-56B-091818
18I0278-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/18/2018 14:10

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 20-Sep-2018 12:06

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGI0537

Prepared: 20-Sep-2018

Sample Size: 20.05 g (wet)

Final Volume: 20 mL

Dry Weight: 14.44 g

% Solids: 72.03

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.83	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Sep-2018 11:45

SO-TC-56C-091818
18I0278-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/18/2018 14:20

Instrument: ICP2 Analyst: MCB

Analyzed: 21-Sep-2018 14:48

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Preparation Batch: BGI0542

Sample Size: 25 mL (wet)

Dry Weight: 18.62 mL

Prepared: 20-Sep-2018

Final Volume: 25 mL

% Solids: 74.48

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0747	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Sep-2018 11:45

SO-TC-56C-091818
18I0278-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/18/2018 14:20

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 20-Sep-2018 12:06

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGI0537

Prepared: 20-Sep-2018

Sample Size: 20.52 g (wet)

Final Volume: 20 mL

Dry Weight: 15.28 g

% Solids: 74.48

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.05	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Sep-2018 11:45

TCLP Metals and Metallic Compounds - Quality Control

Batch BG10542 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BG10542-BLK1)						Prepared: 20-Sep-2018 Analyzed: 21-Sep-2018 14:31					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BG10542-DUP1)						Source: 1810278-01 Prepared: 20-Sep-2018 Analyzed: 21-Sep-2018 15:47					
Arsenic	0.0685	0.0140	0.250	mg/L		0.0842			20.60	20	L, J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BG10542-MS1)						Source: 1810278-01 Prepared: 20-Sep-2018 Analyzed: 21-Sep-2018 15:51					
Arsenic	3.97	0.0140	0.250	mg/L	4.00	0.0842	97.1	75-125			
Lead	3.66	0.0065	0.100	mg/L	4.00	ND	91.4	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Sep-2018 11:45

Wet Chemistry - Quality Control

Batch BGI0537 - EPA 9045D

Instrument: Accumet AR60 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGI0537-BS1)									
Prepared: 20-Sep-2018 Analyzed: 20-Sep-2018 12:06									
pH	6.98	0.01	0.01	pH Units	7.00	99.7	0-200		



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Sep-2018 11:45

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Sep-2018 11:45

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Data Package for approval - disposal at LRI

From David Bosch <DBosch@tpchd.org>

Date Wed 10/10/2018 1:28 PM

To jking perc-nw.com <jking@perc-nw.com>

Cc sduggan perc-nw.com <sduggan@perc-nw.com>; kking perc-nw.com <kking@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

Jeff,

The Health Department has reviewed the three data sets dated October 8th. The soils associated with these characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Wednesday, October 10, 2018 11:28 AM

To: David Bosch <DBosch@tpchd.org>

Cc: Steve Duggan <sduggan@perc-nw.com>; 'Kenny King' <kking@perc-nw.com>; grimstedb@uspioneer.com

Subject: Data Package for approval - disposal at LRI

David:

Attached is one laboratory data sheet for soil we hope to dispose of at LRI. The following table lists the results.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-58A-100118	0.28	0.0569	8.94
SO-TC-58B-100118	0.0999	ND	8.85
SO-TC-58C-100118	0.0942	ND	8.93

Thank you.

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

08 October 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18J0025

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 1830025		Turn-around Requested: 3 Day		Date: 10/1/2018		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 425-346-0921		Page: of									
Client Contact: Kenny King				No. of Coolers: 0 Cooler Temps: 23.8°C									
Client Project Name: Superlon Plastics				Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: Duggan											
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	PH 9045C							
SO-TC-58A-100118	10/01/18	15:15	Soil	1	✓	✓							
SO-TC-58B-100118	10/01/18	15:25	Soil	1	✓	✓							
SO-TC-58C-100118	10/01/18	15:35	Soil	1	✓	✓							
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walte</i>		Relinquished by: (Signature)		Received by: (Signature)			
				Printed Name: Kenny King		Printed Name: Jacob Walte		Printed Name:		Printed Name:			
				Company: PERC		Company: ARI		Company:		Company:			
				Date & Time: 10/1/18 16:28		Date & Time: 10/01/18 1628		Date & Time:		Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Oct-2018 13:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-58A-100118	18J0025-01	Solid	01-Oct-2018 15:15	01-Oct-2018 16:28
SO-TC-58B-100118	18J0025-02	Solid	01-Oct-2018 15:25	01-Oct-2018 16:28
SO-TC-58C-100118	18J0025-03	Solid	01-Oct-2018 15:35	01-Oct-2018 16:28



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Oct-2018 13:01

Case Narrative

Sample receipt

Samples as listed on the preceding page were received October 1, 2018 under ARI work order 18J0025. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superlan Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other _____

Assigned ARI Job No. 18J0025

Tracking No: _____ NA

Preliminary Examination Phase

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry) 23.8°C

Time: 1628

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: D005206

Cooler Accepted by: SBW Date: 10/01/18 Time: 1628

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? .. Bubble Wrap Wet Ice Gel Packs Beagles Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI... NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: SBW Date: 10/01/18 Time: 1644

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Small → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)



Cooler Temperature Compliance Form

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Oct-2018 13:01

SO-TC-58A-100118
18J0025-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/01/2018 15:15

Instrument: ICP2 Analyst: TCH

Analyzed: 05-Oct-2018 10:51

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Preparation Batch: BGJ0168

Sample Size: 25 mL (wet)

Dry Weight: 16.79 mL

Prepared: 04-Oct-2018

Final Volume: 25 mL

% Solids: 67.16

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.280	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0569	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Oct-2018 13:01

SO-TC-58A-100118
18J0025-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/01/2018 15:15

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 03-Oct-2018 07:18

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0110

Prepared: 03-Oct-2018

Sample Size: 20.17 g (wet)

Final Volume: 20 mL

Dry Weight: 13.55 g

% Solids: 67.16

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.94	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Oct-2018 13:01

SO-TC-58A-100118
18J0025-01 (Solid)

Wet Chemistry

Method: SM 2540 G-97

Sampled: 10/01/2018 15:15

Instrument: BAL2 Analyst: KLE

Analyzed: 03-Oct-2018 06:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Preparation Batch: BGJ0111

Prepared: 03-Oct-2018

Sample Size: 10 g (wet)

Final Volume: 10 g

Dry Weight: 6.72 g

% Solids: 67.16

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	67.16	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Oct-2018 13:01

SO-TC-58B-100118
18J0025-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/01/2018 15:25

Instrument: ICP2 Analyst: TCH

Analyzed: 05-Oct-2018 10:55

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Preparation Batch: BGJ0168

Sample Size: 25 mL (wet)

Dry Weight: 19.35 mL

Prepared: 04-Oct-2018

Final Volume: 25 mL

% Solids: 77.42

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0999	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Oct-2018 13:01

SO-TC-58B-100118
18J0025-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/01/2018 15:25

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 03-Oct-2018 07:18

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0110

Prepared: 03-Oct-2018

Sample Size: 20.35 g (wet)

Final Volume: 20 mL

Dry Weight: 15.75 g

% Solids: 77.42

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.85	pH Units	



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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Oct-2018 13:01

SO-TC-58B-100118
18J0025-02 (Solid)

Wet Chemistry

Method: SM 2540 G-97

Sampled: 10/01/2018 15:25

Instrument: BAL2 Analyst: KLE

Analyzed: 03-Oct-2018 06:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Preparation Batch: BGJ0111

Prepared: 03-Oct-2018

Sample Size: 10 g (wet)

Final Volume: 10 g

Dry Weight: 7.74 g

% Solids: 77.42

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	77.42	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Oct-2018 13:01

SO-TC-58C-100118
18J0025-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/01/2018 15:35

Instrument: ICP2 Analyst: TCH

Analyzed: 05-Oct-2018 11:00

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Preparation Batch: BGJ0168

Sample Size: 25 mL (wet)

Dry Weight: 18.85 mL

Prepared: 04-Oct-2018

Final Volume: 25 mL

% Solids: 75.38

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0942	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Oct-2018 13:01

SO-TC-58C-100118
18J0025-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/01/2018 15:35

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 03-Oct-2018 07:18

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0110

Prepared: 03-Oct-2018

Sample Size: 20.28 g (wet)

Final Volume: 20 mL

Dry Weight: 15.29 g

% Solids: 75.38

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.93	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Oct-2018 13:01

SO-TC-58C-100118
18J0025-03 (Solid)

Wet Chemistry

Method: SM 2540 G-97

Sampled: 10/01/2018 15:35

Instrument: BAL2 Analyst: KLE

Analyzed: 03-Oct-2018 06:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Preparation Batch: BGJ0111

Prepared: 03-Oct-2018

Sample Size: 10 g (wet)

Final Volume: 10 g

Dry Weight: 7.54 g

% Solids: 75.38

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	75.38	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Oct-2018 13:01

TCLP Metals and Metallic Compounds - Quality Control

Batch BGJ0168 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BGJ0168-BLK1)					Prepared: 04-Oct-2018 Analyzed: 05-Oct-2018 10:43					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Oct-2018 13:01

Wet Chemistry - Quality Control

Batch BGJ0110 - EPA 9045D

Instrument: Accumet AR60 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BGJ0110-BS1)										
						Prepared: 03-Oct-2018 Analyzed: 03-Oct-2018 07:18				
pH	7.02	0.01	0.01	pH Units	17.5	40.1	0-200			
Duplicate (BGJ0110-DUP1)										
		Source: 18J0025-01				Prepared: 03-Oct-2018 Analyzed: 03-Oct-2018 07:18				
pH	8.98	0.01	0.01	pH Units	8.94			0.45	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Oct-2018 13:01

Wet Chemistry - Quality Control

Batch BGJ0111 - No Prep Wet Chem

Instrument: BAL2 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BGJ0111-BLK1)					Prepared: 03-Oct-2018 Analyzed: 03-Oct-2018 06:38					
Total Solids	ND	0.04	0.04	%						U
Duplicate (BGJ0111-DUP1)					Source: 18J0025-01 Prepared: 03-Oct-2018 Analyzed: 03-Oct-2018 06:38					
Total Solids	67.96	0.04	0.04	%		67.16		1.19	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Oct-2018 13:01

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Oct-2018 13:01

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

From: [David Bosch](#)
To: [Jeffrey D King](#)
Subject: RE: Two Data packages for soil we hope to dispose of at LRI
Date: Tuesday, October 16, 2018 3:18:11 PM

Jeff,

The Health Department has reviewed these two data sets dated October 11 and October 15, 2018. The soils associated with these characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



From: Jeffrey D King <jking@perc-nw.com>

Sent: Tuesday, October 16, 2018 3:03 PM

To: David Bosch <DBosch@tpchd.org>

Cc: 'Kenny King' <kking@perc-nw.com>; Steve Duggan <sduggan@perc-nw.com>; grimstedb@uspioneer.com

Subject: Two Data packages for soil we hope to dispose of at LRI

David:

Attached are two data packages for your consideration. The data is summarized below:

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-59A-100218	0.0619	ND	8.59
SO-TC-59B-100218	0.105	ND	8.52
SO-TC-59C-100218	0.0706	ND	8.54
SO-TC-60A-100818	0.362	0.213	8.98
SO-TC-60B-100818	0.192	ND	9.06
SO-TC-60C-100818	0.138	ND	8.87

Thank you (as always)

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

11 October 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18J0047

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., ou=Client
Services, cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2018.10.11 17:18:42 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18J0047		Turn-around Requested: 3 Day		Date: 10/2/18		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)						
ARI Client Company: PERC		Phone: 425-346-0921		Page: of								
Client Contact: Kenny King				No. of Coolers: 2 Cooler Temps: 23.3°C								
Client Project Name: Superlon Plastics				Analysis Requested								
Client Project #: SLON		Samplers: King		Notes/Comments								
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	PH 9045C						
SO-TC-59A-100218	10/02/18	15:00	Soil	1	✓	✓						
SO-TC-59B-100218	10/02/18	15:10	Soil	1	✓	✓						
SO-TC-59C-100218	10/02/18	15:20	Soil	1	✓	✓						
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walter</i>		Relinquished by: (Signature)		Received by: (Signature)		
				Printed Name: <i>Kenny King</i>		Printed Name: <i>Jacob Walter</i>		Printed Name:		Printed Name:		
				Company: <i>PERC</i>		Company: <i>ARI</i>		Company:		Company:		
				Date & Time: <i>10/2/18 16:51</i>		Date & Time: <i>10/02/18 1651</i>		Date & Time:		Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2018 17:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-59A-100218	18J0047-01	Solid	02-Oct-2018 15:00	02-Oct-2018 16:51
SO-TC-59B-100218	18J0047-02	Solid	02-Oct-2018 15:10	02-Oct-2018 16:51
SO-TC-59C-100218	18J0047-03	Solid	02-Oct-2018 15:20	02-Oct-2018 16:51



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2018 17:15

Case Narrative

Sample receipt

Samples as listed on the preceding page were received October 2, 2018 under ARI work order 18J0047. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The Duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 18J0047

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (*C) (recommended 2.0-6.0 *C for chemistry) 23.3C

Time: 1651

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 0005206

Cooler Accepted by: Jan Date: 10/02/18 Time: 1651

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs),... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Was Sample Split by ARI: NO YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Jan Date: 10/02/18 Time: 1707

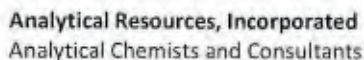
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
---------------------------------------	---------------------------------	--	---

[illegible]

Completed by: J. Tim Date: 10/02/18 Time: 1651

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2018 17:15

SO-TC-59A-100218
18J0047-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/02/2018 15:00

Instrument: ICP2 Analyst: MCB

Analyzed: 11-Oct-2018 02:21

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGJ0254 Sample Size: 25 mL (wet)
Prepared: 08-Oct-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0619	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2018 17:15

SO-TC-59A-100218
18J0047-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/02/2018 15:00

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 05-Oct-2018 07:36

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0209

Prepared: 05-Oct-2018

Sample Size: 20.21 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.59	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2018 17:15

SO-TC-59B-100218
18J0047-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/02/2018 15:10

Instrument: ICP2 Analyst: MCB

Analyzed: 11-Oct-2018 02:26

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGJ0254 Sample Size: 25 mL (wet)
Prepared: 08-Oct-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.105	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2018 17:15

SO-TC-59B-100218
18J0047-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/02/2018 15:10

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 05-Oct-2018 07:36

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0209

Prepared: 05-Oct-2018

Sample Size: 20.43 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.52	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2018 17:15

SO-TC-59C-100218
18J0047-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/02/2018 15:20

Instrument: ICP2 Analyst: MCB

Analyzed: 11-Oct-2018 02:30

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGJ0254 Sample Size: 25 mL (wet)
Prepared: 08-Oct-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0706	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2018 17:15

SO-TC-59C-100218
18J0047-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/02/2018 15:20

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 05-Oct-2018 07:36

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0209

Prepared: 05-Oct-2018

Sample Size: 20.13 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.54	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2018 17:15

TCLP Metals and Metallic Compounds - Quality Control

Batch BGJ0254 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BGJ0254-BLK1)					Prepared: 08-Oct-2018 Analyzed: 11-Oct-2018 02:17					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2018 17:15

Wet Chemistry - Quality Control

Batch BGJ0209 - EPA 9045D

Instrument: Accumet AR60 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Duplicate (BGJ0209-DUP1)									
Source: 18J0047-01									
Prepared: 05-Oct-2018 Analyzed: 05-Oct-2018 07:36									
pH	8.62	0.01	0.01	pH Units		8.59		0.35	20



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2018 17:15

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2018 17:15

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

15 October 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18J0176

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila, o=Analytical
Resources, Inc., ou=Client Services, cn=Shelly
Fishel, email=shelly.fishel@arilabs.com
Date: 2018.10.15 11:31:50 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18J0176		Turn-around Requested: 3 Day		Date: 10/08/18		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)																																																																																																																																	
ARI Client Company: PERC		Phone: 425-346-0921		Page: of																																																																																																																																			
Client Contact: Kenny King				No. of Coolers: 1 Cooler Temps: 20.7																																																																																																																																			
Client Project Name: Superlon Plastics				<table border="1"> <thead> <tr> <th colspan="8">Analysis Requested</th> <th>Notes/Comments</th> </tr> <tr> <th>TCLP 1311 As/Pb Only</th> <th>PH 9045C</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>						Analysis Requested								Notes/Comments	TCLP 1311 As/Pb Only	PH 9045C								✓	✓								✓	✓								✓	✓																																																																																								
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Comments/Special Instructions		Relinquished by: <i>Kenny King</i> (Signature) Printed Name: Kenny King Company: PERC Date & Time: 10/8/18 16:45		Received by: <i>Stephanie Fisher</i> (Signature) Printed Name: Stephanie Fisher Company: ARI Date & Time: 10-8-18 16:45		Relinquished by: _____ (Signature) Printed Name: _____ Company: _____ Date & Time: _____		Received by: _____ (Signature) Printed Name: _____ Company: _____ Date & Time: _____																																																																																																																															

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2018 11:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-60A-100818	18J0176-01	Solid	08-Oct-2018 13:50	08-Oct-2018 16:45
SO-TC-60B-100818	18J0176-02	Solid	08-Oct-2018 14:00	08-Oct-2018 16:45
SO-TC-60C-100818	18J0176-03	Solid	08-Oct-2018 14:10	08-Oct-2018 16:45



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2018 11:28

Case Narrative

Sample receipt

Samples as listed on the preceding page were received October 8, 2018 under ARI work order 18J0176. For details regarding sample receipt, please refer to the Cooler Receipt Form.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: Perc Project Name: _____
COC No(s): _____ NA Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Assigned ARI Job No: 18J0176 Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
Were custody papers included with the cooler? YES YES NO
Were custody papers properly filled out (ink, signed, etc.) YES YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 20.7
Time: 1645
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: D002565
Cooler Accepted by: SeF Date: 10-8-18 Time: 1645

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
Were all bottles sealed in individual plastic bags? YES NO
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI NA
Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: SeF Date: 10-8-18 Time: 1648

** Notify Project Manager of discrepancies or concerns **

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles - 2mm	Peabubbles 2-4 mm	LARGE Air Bubbles > 4 mm	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
------------------------------------	------------------------------	--	--



Cooler Temperature Compliance Form

ARI Work Order: <u>18J0176</u>		
Cooler#: <u>1</u>	Temperature(°C): <u>20.7</u>	
Sample ID	Bottle Count	Bottle Type
<u>Samples received above 6"</u>		
Cooler#: _____ Temperature(°C): _____		
Sample ID	Bottle Count	Bottle Type
Cooler#: _____ Temperature(°C): _____		
Sample ID	Bottle Count	Bottle Type
Cooler#: _____ Temperature(°C): _____		
Sample ID	Bottle Count	Bottle Type

Completed by: Sef Date: 10-8-18 Time: 1645
00070F Cooler Temperature Compliance Form Version 000 3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2018 11:28

SO-TC-60A-100818
18J0176-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/08/2018 13:50

Instrument: ICP2 Analyst: TCH

Analyzed: 12-Oct-2018 09:00

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGJ0356 Sample Size: 25 mL (wet)
Prepared: 10-Oct-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.362	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.213	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2018 11:28

SO-TC-60A-100818
18J0176-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/08/2018 13:50

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 11-Oct-2018 10:58

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0389

Prepared: 11-Oct-2018

Sample Size: 20 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.98	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2018 11:28

SO-TC-60B-100818
18J0176-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/08/2018 14:00

Instrument: ICP2 Analyst: TCH

Analyzed: 12-Oct-2018 09:04

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGJ0356 Sample Size: 25 mL (wet)
Prepared: 10-Oct-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.192	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2018 11:28

SO-TC-60B-100818
18J0176-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/08/2018 14:00

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 11-Oct-2018 10:58

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0389

Prepared: 11-Oct-2018

Sample Size: 20 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.06	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2018 11:28

SO-TC-60C-100818
18J0176-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/08/2018 14:10

Instrument: ICP2 Analyst: TCH

Analyzed: 12-Oct-2018 09:09

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGJ0356 Sample Size: 25 mL (wet)
Prepared: 10-Oct-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.138	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2018 11:28

SO-TC-60C-100818
18J0176-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/08/2018 14:10

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 11-Oct-2018 10:58

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0389

Prepared: 11-Oct-2018

Sample Size: 20 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.87	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2018 11:28

TCLP Metals and Metallic Compounds - Quality Control

Batch BGJ0356 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BGJ0356-BLK1)					Prepared: 10-Oct-2018 Analyzed: 11-Oct-2018 08:44				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2018 11:28

Wet Chemistry - Quality Control

Batch BGJ0389 - EPA 9045D

Instrument: Accumet AR60 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGJ0389-BS1)									
Prepared: 11-Oct-2018 Analyzed: 11-Oct-2018 10:58									
pH	7.03	0.01	0.01	pH Units	7.00	100	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2018 11:28

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2018 11:28

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Three data package for your consideration

From David Bosch <DBosch@tpchd.org>

Date Wed 10/24/2018 9:12 AM

To jking perc-nw.com <jking@perc-nw.com>

Cc kking perc-nw.com <kking@perc-nw.com>; sduggan perc-nw.com <sduggan@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

Good morning Jeff,

The Health Department has reviewed the three data packages dated October 22, 2018. The soils associated with these characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Wednesday, October 24, 2018 7:45 AM

To: David Bosch <DBosch@tpchd.org>

Cc: 'Kenny King' <kking@perc-nw.com>; Steve Duggan <sduggan@perc-nw.com>; grimstedb@uspioneer.com

Subject: Three data package for your consideration

David:

Attached are three data packages for soils that we hope to dispose of at LRI. Each sample represents approximately 22 CY. The following table presents the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-62A-101518	0.0625	ND	9.16
SO-TC-62B-101518	0.156	ND	9.36
SO-TC-62C-101518	0.475	0.0878	9.38
SO-TC-63A-101618	0.678	ND	9.11
SO-TC-63B-101618	0.958	0.0471	8.99
SO-TC-63C-101618	1.72	0.488	9.03
SO-TC-64A-101718	1.67	0.0269	9.08

SO-TC-64B-101718	0.197	ND	9.2
SO-TC-64C-101718	0.307	ND	9.29

Thank you

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

22 October 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18J0267

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18J0267	Turn-around Requested: 3 Day	Date: 10/15/18
ARI Client Company: PERC	Phone: 425-346-0921	Page: _____ of _____
Client Contact: Kenny King		No. of Coolers: None Cooler Temps: AMB



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	PH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-62A-101518	10/15/18	15:20	Soil	1	✓	✓							
SO-TC-62B-101518	10/15/18	15:30	Soil	1	✓	✓							
SO-TC-62C-101518	10/15/18	15:40	Soil	1	✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Sue Dennis</i>		Relinquished by: (Signature)		Received by: (Signature)		
					Printed Name: Kenny King		Printed Name: Sue Dennis		Printed Name:		Printed Name:		
					Company: PERC		Company: AM		Company:		Company:		
					Date & Time: 10/15/18 17:17		Date & Time: 10/15/18 17:17		Date & Time:		Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 10:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-62A-101518	18J0267-01	Solid	15-Oct-2018 15:20	15-Oct-2018 17:17
SO-TC-62B-101518	18J0267-02	Solid	15-Oct-2018 15:30	15-Oct-2018 17:17
SO-TC-62C-101518	18J0267-03	Solid	15-Oct-2018 15:40	15-Oct-2018 17:17



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 10:51

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received October 15, 2018 under ARI work order 18J0267. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The Duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Sorption Plastics

COC No(s): _____ NA

Delivered by Fed-Ex UPS Courier Hand Delivered Other _____

Assigned ARI Job No: 18J0267

Tracking No. _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time: 1717 25.1

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DC05206

Cooler Accepted by: Sue Dunn, Inc. Date: 10/15/18 Time: 1717

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? _____

NA YES NO

Were all bottles sealed in individual plastic bags? _____

YES NO

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI _____

NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JD Date: 10/15/18 Time: 1752

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By _____ Date: _____

Small Air Bubbles ~ 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm
---------------------------------------	---------------------------------	--

Small → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)



Cooler Temperature Compliance Form

Completed by: STZ Date: 10/15/18 Time: 17:17

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 10:51

SO-TC-62A-101518
18J0267-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/15/2018 15:20

Instrument: ICP2 Analyst: TCH

Analyzed: 10/17/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGJ0555 Sample Size: 25 mL (wet)
Prepared: 17-Oct-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0625	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 10:51

SO-TC-62A-101518
18J0267-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/15/2018 15:20

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 10/17/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0540

Prepared: 17-Oct-2018

Sample Size: 20 g (wet)

Final Volume: 20.12 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.16	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 10:51

SO-TC-62B-101518
18J0267-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/15/2018 15:30

Instrument: ICP2 Analyst: TCH

Analyzed: 10/17/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGJ0555 Sample Size: 25 mL (wet)
Prepared: 17-Oct-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.156	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 10:51

SO-TC-62B-101518
18J0267-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/15/2018 15:30

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 10/17/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0540

Prepared: 17-Oct-2018

Sample Size: 20 g (wet)

Final Volume: 20.13 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.36	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 10:51

SO-TC-62C-101518
18J0267-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/15/2018 15:40

Instrument: ICP2 Analyst: TCH

Analyzed: 10/17/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGJ0555 Sample Size: 25 mL (wet)
Prepared: 17-Oct-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.475	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0878	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 10:51

SO-TC-62C-101518
18J0267-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/15/2018 15:40

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 10/17/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0540

Prepared: 17-Oct-2018

Sample Size: 20 g (wet)

Final Volume: 20.09 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.38	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 10:51

TCLP Metals and Metallic Compounds - Quality Control

Batch BGJ0555 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BGJ0555-BLK1)					Prepared: 17-Oct-2018 Analyzed: 17-Oct-2018 17:49				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 10:51

Wet Chemistry - Quality Control

Batch BGJ0540 - EPA 9045D

Instrument: Accumet AR60 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Duplicate (BGJ0540-DUP1)									
Source: 18J0267-01									
Prepared: 17-Oct-2018 Analyzed: 17-Oct-2018 06:54									
pH	9.14	0.01	0.01	pH Units		9.16		0.22	20



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 10:51

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 10:51

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

22 October 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18J0294

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18J0294		Turn-around Requested: 3 Day		Date: 10/16/2018		
ARI Client Company: PERC		Phone: 425-346-0921		Page: of		
Client Contact: Kenny King				No. of Coolers: Cooler Temps: 21.9		
Client Project Name: Superlon Plastics		Analysis Requested				Notes/Comments
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	PH 9045C	
Sample ID	Date	Time	Matrix	No. Containers		
SO-TC-63A-101618	10/16/18	10:20	Soil	1	✓	✓
SO-TC-63B-101618	10/16/18	10:30	Soil	1	✓	✓
SO-TC-63C-101618	10/16/18	10:40	Soil	1	✓	✓
Comments/Special Instructions		Relinquished by: (Signature) Kenny King		Received by: (Signature) Jasmine Bauman		
		Printed Name: Kenny King		Printed Name: Jasmine Bauman		
		Company: PERC		Company: ARI		
		Date & Time: 10/16/18 16:39		Date & Time: 10/16/18 1639		



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-63A-101618	18J0294-01	Solid	16-Oct-2018 10:20	16-Oct-2018 16:39
SO-TC-63B-101618	18J0294-02	Solid	16-Oct-2018 10:30	16-Oct-2018 16:39
SO-TC-63C-101618	18J0294-03	Solid	16-Oct-2018 10:40	16-Oct-2018 16:39



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:10

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received October 16, 2018 under ARI work order 18J0294. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

The Duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon Plastic

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 18J0294

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) ... _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time: 1639

21.9

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DS05206

Cooler Accepted by: TJB Date: 10/16/18 Time: 1639

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? _____

NA YES NO

Were all bottles sealed in individual plastic bags? _____

YES NO

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI: _____

NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: TJB Date: 10/16/18 Time: 1703

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Small → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)



Cooler Temperature Compliance Form

ARI Work Order: 18J0294

Cooler#: _____ Temperature(°C): 21.9

Sample ID	Bottle Count	Bottle Type
All Samples out of Temp.		

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Completed by: JLB Date: 10/16/18 Time: 16:37

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:10

SO-TC-63A-101618
18J0294-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/16/2018 10:20

Instrument: ICP2 Analyst: TCH

Analyzed: 10/19/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGJ0587 Sample Size: 25 mL (wet)
Prepared: 18-Oct-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.678	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:10

SO-TC-63A-101618
18J0294-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/16/2018 10:20

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 10/22/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0676

Prepared: 22-Oct-2018

Sample Size: 20.01 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.11	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:10

SO-TC-63B-101618
18J0294-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/16/2018 10:30

Instrument: ICP2 Analyst: TCH

Analyzed: 10/19/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGJ0587 Sample Size: 25 mL (wet)
Prepared: 18-Oct-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.958	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0471	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:10

SO-TC-63B-101618
18J0294-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/16/2018 10:30

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 10/22/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0676

Prepared: 22-Oct-2018

Sample Size: 20.08 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.99	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:10

SO-TC-63C-101618
18J0294-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/16/2018 10:40

Instrument: ICP2 Analyst: TCH

Analyzed: 10/19/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGJ0587 Sample Size: 25 mL (wet)
Prepared: 18-Oct-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	1.72	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.488	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:10

SO-TC-63C-101618
18J0294-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/16/2018 10:40

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 10/22/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0676

Prepared: 22-Oct-2018

Sample Size: 20.08 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.03	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:10

TCLP Metals and Metallic Compounds - Quality Control

Batch BGJ0587 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BGJ0587-BLK1)					Prepared: 18-Oct-2018 Analyzed: 19-Oct-2018 11:45					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:10

Wet Chemistry - Quality Control

Batch BGJ0676 - EPA 9045D

Instrument: Accumet AR60 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BGJ0676-BS1)						Prepared: 22-Oct-2018 Analyzed: 22-Oct-2018 12:18					
pH	7.00	0.01	0.01	pH Units	7.00		100	0-200			
Duplicate (BGJ0676-DUP1)						Source: 18J0294-01 Prepared: 22-Oct-2018 Analyzed: 22-Oct-2018 12:18					
pH	9.09	0.01	0.01	pH Units		9.11			0.22	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:10

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:10

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

22 October 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18J0313

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 18J0313		Turn-around Requested: 2 Day			Date: 10/17/2018				Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC			Phone: 425-346-0921		Page: of									
Client Contact: Kenny King					No. of Coolers: Cooler Temps:									
Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	PH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-64A-101718	10/17/18	14:40	Soil	1			✓	✓						
SO-TC-64B-101718	10/17/18	14:50	Soil	1			✓	✓						
SO-TC-64C-101718	10/17/18	15:00	Soil	1			✓	✓						
Comments/Special Instructions		Relinquished by: (Signature)			Received by: (Signature)			Relinquished by: (Signature)			Received by: (Signature)			
		Printed Name: Jeff King			Printed Name: Jasmine Bauman			Printed Name:			Printed Name:			
		Company: PERC			Company: ARI			Company:			Company:			
		Date & Time: 10/17/18 4:10P			Date & Time: 10/17/18 1616			Date & Time:			Date & Time:			

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-64A-101718	18J0313-01	Solid	17-Oct-2018 14:40	17-Oct-2018 16:16
SO-TC-64B-101718	18J0313-02	Solid	17-Oct-2018 14:50	17-Oct-2018 16:16
SO-TC-64C-101718	18J0313-03	Solid	17-Oct-2018 15:00	17-Oct-2018 16:16



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:13

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received October 17, 2018 under ARI work order 18J0313. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD and Matrix Spike percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superdon

COC No(s): _____ NA

Delivered by Fed-Ex UPS Courier, Hand Delivered, Other: _____

Assigned ARI Job No: 18J0313

Tracking No _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? _____

YES

NO

Were custody papers included with the cooler? _____

YES

NO

Were custody papers properly filled out (ink, signed, etc) _____

YES

NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1616

24.9

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: D005206

Cooler Accepted by: JTB Date: 10/17/18 Time: 1616

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES

NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? _____

NA

YES

NO

Were all bottles sealed in individual plastic bags? _____

YES

NO

Did all bottles arrive in good condition (unbroken)? _____

YES

NO

Were all bottle labels complete and legible? _____

YES

NO

Did the number of containers listed on COC match with the number of containers received? _____

YES

NO

Did all bottle labels and tags agree with custody papers? _____

YES

NO

Were all bottles used correct for the requested analyses? _____

YES

NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA

YES

NO

Were all VOC vials free of air bubbles? _____

NA

YES

NO

Was sufficient amount of sample sent in each bottle? _____

YES

NO

Date VOC Trip Blank was made at ARI: _____

NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JTB Date: 10/17/18 Time: 1630

Notify Project Manager of discrepancies or concerns

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles 	Pea bubbles 	LARGE Air Bubbles 	Small → "sm" (< 3 mm) Pea bubbles → "pb" (1 to 4 mm) Large → "lg" (4 to 6 mm) Headspace → "hs" (> 6 mm)
------------------------------	------------------------	------------------------------	--



Cooler Temperature Compliance Form

ARI Work Order: 18J0313

Cooler#: _____ Temperature(°C): 24.9

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

All Samples out of temp

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: JLB Date: 10/17/18 Time: 1630

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:13

SO-TC-64A-101718
18J0313-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/17/2018 14:40

Instrument: ICP2 Analyst: TCH

Analyzed: 10/19/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGJ0636 Sample Size: 25 mL (wet)
Prepared: 19-Oct-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	1.67	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0269	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:13

SO-TC-64A-101718
18J0313-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/17/2018 14:40

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 10/22/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0676

Prepared: 22-Oct-2018

Sample Size: 20.07 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.08	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:13

SO-TC-64B-101718
18J0313-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/17/2018 14:50

Instrument: ICP2 Analyst: TCH

Analyzed: 10/19/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGJ0636 Sample Size: 25 mL (wet)
Prepared: 19-Oct-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.197	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:13

SO-TC-64B-101718
18J0313-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/17/2018 14:50

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 10/22/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0676

Prepared: 22-Oct-2018

Sample Size: 20.18 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.20	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:13

SO-TC-64C-101718
18J0313-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/17/2018 15:00

Instrument: ICP2 Analyst: TCH

Analyzed: 10/19/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGJ0636 Sample Size: 25 mL (wet)
Prepared: 19-Oct-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.307	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:13

SO-TC-64C-101718
18J0313-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/17/2018 15:00

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 10/22/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0676

Prepared: 22-Oct-2018

Sample Size: 20 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.29	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:13

TCLP Metals and Metallic Compounds - Quality Control

Batch BGJ0636 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGJ0636-BLK1)						Prepared: 19-Oct-2018 Analyzed: 19-Oct-2018 15:07					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BGJ0636-DUP1)						Source: 18J0313-01 Prepared: 19-Oct-2018 Analyzed: 19-Oct-2018 15:20					
Arsenic	1.77	0.0140	0.250	mg/L		1.67			5.78	20	
Lead	0.0295	0.0065	0.100	mg/L		0.0269			9.22	20	J
Matrix Spike (BGJ0636-MS1)						Source: 18J0313-01 Prepared: 19-Oct-2018 Analyzed: 19-Oct-2018 15:28					
Arsenic	5.68	0.0140	0.250	mg/L	4.00	1.67	100	75-125			
Lead	3.81	0.0065	0.100	mg/L	4.00	0.0269	94.5	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:13

Wet Chemistry - Quality Control

Batch BGJ0676 - EPA 9045D

Instrument: Accumet AR60 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGJ0676-BS1)									
Prepared: 22-Oct-2018 Analyzed: 22-Oct-2018 12:18									
pH	7.00	0.01	0.01	pH Units	7.00	100	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:13

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2018 16:13

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: One data package for soil we hope to dispose of at LRI

From David Bosch <DBosch@tpchd.org>

Date Tue 10/30/2018 7:28 AM

To jking perc-nw.com <jking@perc-nw.com>

Cc kking perc-nw.com <kking@perc-nw.com>; sduggan perc-nw.com <sduggan@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

Jeff,

Thank you for the information. The Health Department has reviewed the data set dated October 29, 2018. The soils associated with this characterization data are acceptable for disposal at the LRI Landfill.

Have a nice day!

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Monday, October 29, 2018 3:56 PM

To: David Bosch <DBosch@tpchd.org>

Cc: 'Kenny King' <kking@perc-nw.com>; Steve Duggan <sduggan@perc-nw.com>; grimstedb@uspioneer.com

Subject: One data package for soil we hope to dispose of at LRI

David:

Attached is one data package for soil we hope to dispose of at LRI. This sample represents approximately 24 CY of soil. The table below lists the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-65A-102318	0.112	ND	8.99
SO-TC-65B-102318	0.0668	ND	9.12
SO-TC-65C-102318	0.0996	ND	9.14

Thanks

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

29 October 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18J0397

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18J0397		Turn-around Requested: 3 Day			Date: 10/23/2018		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)						
ARI Client Company: PERC		Phone: 425-346-0921			Page: of								
Client Contact: Kenny King					No. of Coolers: 1 Cooler Temps: 15.5								
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only PH 9045C								
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-65A-102318	10/23/18	09:50	Soil	1		✓	✓						
SO-TC-65B-102318	10/23/18	10:00	Soil	1		✓	✓						
SO-TC-65C-102318	10/23/18	10:10	Soil	1		✓	✓						
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Stephanie Fisul</i>		Relinquished by: (Signature)		Received by: (Signature)		
					Printed Name: Kenny King		Printed Name: Stephanie Fisul		Printed Name:		Printed Name:		
					Company: PERC		Company: ARI		Company:		Company:		
					Date & Time: 10/23/18 16:53		Date & Time: 10-23-18 1654		Date & Time:		Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2018 15:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-65A-102318	18J0397-01	Solid	23-Oct-2018 09:50	23-Oct-2018 16:54
SO-TC-65B-102318	18J0397-02	Solid	23-Oct-2018 10:00	23-Oct-2018 16:54
SO-TC-65C-102318	18J0397-03	Solid	23-Oct-2018 10:10	23-Oct-2018 16:54



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2018 15:02

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received October 23, 2018 under ARI work order 18J0397. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: Pesc Project Name: _____
COC No(s) _____ NA Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Assigned ARI Job No: 18J0397 Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry) 15.5
Time: 1654
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID# D007565
Cooler Accepted by: Set Date: 10-23-16 Time: 1654
Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
Were all bottles sealed in individual plastic bags? YES NO
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____
Samples Logged by: Set Date: 10-23-16 Time: 1712
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
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Cooler Temperature Compliance Form

Completed by: Set Date: 10-23-12 Time: 1054

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2018 15:02

SO-TC-65A-102318
18J0397-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/23/2018 09:50

Instrument: ICP2 Analyst: TCH

Analyzed: 10/26/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGJ0834 Sample Size: 25 mL (wet)
Prepared: 25-Oct-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.112	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2018 15:02

SO-TC-65A-102318
18J0397-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/23/2018 09:50

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 10/29/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0934

Prepared: 29-Oct-2018

Sample Size: 20.84 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.99	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2018 15:02

SO-TC-65B-102318
18J0397-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/23/2018 10:00

Instrument: ICP2 Analyst: TCH

Analyzed: 10/26/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGJ0834 Sample Size: 25 mL (wet)
Prepared: 25-Oct-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0668	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2018 15:02

SO-TC-65B-102318
18J0397-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/23/2018 10:00

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 10/29/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0934

Prepared: 29-Oct-2018

Sample Size: 20.51 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.12	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2018 15:02

SO-TC-65C-102318
18J0397-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/23/2018 10:10

Instrument: ICP2 Analyst: TCH

Analyzed: 10/26/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGJ0834 Sample Size: 25 mL (wet)
Prepared: 25-Oct-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0996	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2018 15:02

SO-TC-65C-102318
18J0397-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/23/2018 10:10

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 10/29/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGJ0934

Prepared: 29-Oct-2018

Sample Size: 20.15 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.14	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2018 15:02

TCLP Metals and Metallic Compounds - Quality Control

Batch BGJ0834 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BGJ0834-BLK1)					Prepared: 25-Oct-2018 Analyzed: 25-Oct-2018 18:05					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2018 15:02

Wet Chemistry - Quality Control

Batch BGJ0934 - EPA 9045D

Instrument: Accumet AR60 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGJ0934-BS1)									
Prepared: 29-Oct-2018 Analyzed: 29-Oct-2018 12:45									
pH	6.96	0.01	0.01	pH Units	7.00	99.4	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2018 15:02

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2018 15:02

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Two data packages for your approval

From David Bosch <DBosch@tpchd.org>

Date Fri 11/16/2018 8:06 AM

To jking perc-nw.com <jking@perc-nw.com>

Cc grimstedb@uspioneer.com <grimstedb@uspioneer.com>; kking perc-nw.com <kking@perc-nw.com>; sduggan perc-nw.com <sduggan@perc-nw.com>

Jeff,

The Health Department has reviewed the two data sets dated November 12 and November 15, 2018. The soils associated with these characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Thursday, November 15, 2018 5:42 PM

To: David Bosch <DBosch@tpchd.org>

Cc: grimstedb@uspioneer.com; 'Kenny King' <kking@perc-nw.com>; Steve Duggan <sduggan@perc-nw.com>

Subject: Two data packages for your approval

David:

Attached are two data packages for soil we hope to dispose of at LRI. Each of these samples represents approximately 24 CY of soil. The table below lists the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-69A-110718	0.178	1.87	8.54
SO-TC-69B-110718	0.153	0.294	8.86
SO-TC-69C-110718	0.436	1.41	8.88
SO-TC-70A-111218	0.842	0.216	8.64
SO-TC-70B-111218	0.484	0.0076	8.74
SO-TC-70C-111218	0.488	ND	8.75

Thanks

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

12 November 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18K0099

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2018 14:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-69A-110718	18K0099-01	Solid	07-Nov-2018 08:00	07-Nov-2018 10:50
SO-TC-69B-110718	18K0099-02	Solid	07-Nov-2018 08:10	07-Nov-2018 10:50
SO-TC-69C-110718	18K0099-03	Solid	07-Nov-2018 08:20	07-Nov-2018 10:50



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2018 14:56

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received November 7, 2018 under ARI work order 18K0099. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC
COC No(s): _____ NA
Assigned ARI Job No: 18K0099

Project Name: 1 Superion Plastics
Delivered by Fed-Ex UPS Courier Hand Delivered Other _____
Tracking No _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES YES NO

Were custody papers properly filled out (ink, signed, etc.) YES YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1050

18.1

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# D002805

Cooler Accepted by: TJB Date: 11/7/18 Time: 1050

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: TJB Date: 11/7/18 Time: 1056

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____			
Small Air Bubbles ~ 2mm 	Pea bubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Pea bubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2018 14:56

SO-TC-69A-110718
18K0099-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/07/2018 08:00

Instrument: ICP2 Analyst: MCB

Analyzed: 11/09/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGK0189 Sample Size: 25 mL (wet)
Prepared: 08-Nov-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.178	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	1.87	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2018 14:56

SO-TC-69A-110718
18K0099-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/07/2018 08:00

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 11/09/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGK0226

Prepared: 09-Nov-2018

Sample Size: 20.58 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.54	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2018 14:56

SO-TC-69B-110718
18K0099-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/07/2018 08:10

Instrument: ICP2 Analyst: MCB

Analyzed: 11/09/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGK0189 Sample Size: 25 mL (wet)
Prepared: 08-Nov-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.153	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.294	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2018 14:56

SO-TC-69B-110718
18K0099-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/07/2018 08:10

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 11/09/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGK0226

Prepared: 09-Nov-2018

Sample Size: 20.61 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.86	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2018 14:56

SO-TC-69C-110718
18K0099-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/07/2018 08:20

Instrument: ICP2 Analyst: MCB

Analyzed: 11/09/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGK0189 Sample Size: 25 mL (wet)
Prepared: 08-Nov-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.436	mg/L	
Lead	7439-92-1	5	0.0065	0.100	1.41	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2018 14:56

SO-TC-69C-110718
18K0099-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/07/2018 08:20

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 11/09/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGK0226

Prepared: 09-Nov-2018

Sample Size: 20.39 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.88	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2018 14:56

TCLP Metals and Metallic Compounds - Quality Control

Batch BGK0189 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGK0189-BLK1)						Prepared: 08-Nov-2018 Analyzed: 09-Nov-2018 13:07					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2018 14:56

Wet Chemistry - Quality Control

Batch BGK0226 - EPA 9045D

Instrument: Accumet AR60 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BGK0226-BS1)										
						Prepared: 09-Nov-2018 Analyzed: 09-Nov-2018 14:16				
pH	7.01	0.01	0.01	pH Units	7.00	100	0-200			
Duplicate (BGK0226-DUP1)										
		Source: 18K0099-01				Prepared: 09-Nov-2018 Analyzed: 09-Nov-2018 14:16				
pH	8.56	0.01	0.01	pH Units	8.54			0.23	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2018 14:56

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2018 14:56

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

16 November 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18K0170

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18K0170		Turn-around Requested: 2 Day		Date: 11/12/2018		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)						
ARI Client Company: PERC		Phone: 425-346-0921		Page: of								
Client Contact: Kenny King				No. of Coolers: 2 Cooler Temps: 18.6°C								
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments				
Client Project #: SLON		Samplers: King										
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	PH 9045C						
SO-TC-70A-111218	11/12/18	11:10	Soil	1	✓	✓						
SO-TC-70B-111218	11/12/18	11:20	Soil	1	✓	✓						
SO-TC-70C-111218	11/12/18	11:30	Soil	1	✓	✓						
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walther</i>		Relinquished by: (Signature)		Received by: (Signature)		
				Printed Name: <i>Kenny King</i>		Printed Name: <i>Jacob Walther</i>		Printed Name:		Printed Name:		
				Company: <i>PERC</i>		Company: <i>ARI</i>		Company:		Company:		
				Date & Time: <i>11/12/18 15:25</i>		Date & Time: <i>11/12/18 15:25</i>		Date & Time:		Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-70A-111218	18K0170-01	Solid	12-Nov-2018 11:10	12-Nov-2018 15:24
SO-TC-70B-111218	18K0170-02	Solid	12-Nov-2018 11:20	12-Nov-2018 15:24
SO-TC-70C-111218	18K0170-03	Solid	12-Nov-2018 11:30	12-Nov-2018 15:24



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:09

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received November 12, 2018 under ARI work order 18K0170. For details regarding sample receipt, please refer to the Cooler Receipt Form.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD and Matrix Spike percent recovery were within control limits.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

The Duplicate RPD were within control limits.



Cooler Receipt Form

ARI Client PERC

COC No(s): NA

Assigned ARI Job No: 18K0170

Project Name: Superken Plastic

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No. NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1524 18.6°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# 2005206

Cooler Accepted by: JB Date 11/12/18 Time 1524

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Set Date 11-12-18 Time 1545

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm 	Pea bubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Pea bubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Lead space → "bs" (> 6 mm)
---------------------------------------	----------------------------------	--	---



Cooler Temperature Compliance Form

Completed by: SSC Date: 11/2/16 Time: 1529

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:09

SO-TC-70A-111218
18K0170-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/12/2018 11:10

Instrument: ICP2 Analyst: MCB

Analyzed: 11/15/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGK0336 Sample Size: 25 mL (wet)
Prepared: 14-Nov-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.842	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.216	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:09

SO-TC-70A-111218
18K0170-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/12/2018 11:10

Instrument: Accumet XL60 Analyst: WCW

Analyzed: 11/14/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGK0338

Prepared: 14-Nov-2018

Sample Size: 20.13 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.64	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:09

SO-TC-70B-111218
18K0170-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/12/2018 11:20

Instrument: ICP2 Analyst: MCB

Analyzed: 11/15/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGK0336 Sample Size: 25 mL (wet)
Prepared: 14-Nov-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.484	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0076	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:09

SO-TC-70B-111218
18K0170-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/12/2018 11:20

Instrument: Accumet XL60 Analyst: WCW

Analyzed: 11/14/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGK0338

Prepared: 14-Nov-2018

Sample Size: 20.03 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.74	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:09

SO-TC-70C-111218
18K0170-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/12/2018 11:30

Instrument: ICP2 Analyst: MCB

Analyzed: 11/15/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGK0336 Sample Size: 25 mL (wet)
Prepared: 14-Nov-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.488	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:09

SO-TC-70C-111218
18K0170-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/12/2018 11:30

Instrument: Accumet XL60 Analyst: WCW

Analyzed: 11/14/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGK0338

Prepared: 14-Nov-2018

Sample Size: 20.03 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.75	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:09

TCLP Metals and Metallic Compounds - Quality Control

Batch BGK0336 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGK0336-BLK1)						Prepared: 14-Nov-2018 Analyzed: 15-Nov-2018 13:01					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BGK0336-DUP1)						Source: 18K0170-01 Prepared: 14-Nov-2018 Analyzed: 15-Nov-2018 13:22					
Arsenic	0.821	0.0140	0.250	mg/L		0.842			2.53	20	
Lead	0.213	0.0065	0.100	mg/L		0.216			1.30	20	
Matrix Spike (BGK0336-MS1)						Source: 18K0170-01 Prepared: 14-Nov-2018 Analyzed: 15-Nov-2018 13:27					
Arsenic	5.33	0.0140	0.250	mg/L	4.00	0.842	112	75-125			
Lead	4.36	0.0065	0.100	mg/L	4.00	0.216	104	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:09

Wet Chemistry - Quality Control

Batch BGK0338 - EPA 9045D

Instrument: Accumet XL60 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BGK0338-BS1)										
						Prepared: 14-Nov-2018 Analyzed: 14-Nov-2018 15:00				
pH	7.00	0.01	0.01	pH Units	7.00	100	0-200			
Duplicate (BGK0338-DUP1)										
		Source: 18K0170-01				Prepared: 14-Nov-2018 Analyzed: 14-Nov-2018 15:00				
pH	8.66	0.01	0.01	pH Units	8.64			0.23	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:09

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:09

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Three data packages for your approval

From David Bosch <DBosch@tpchd.org>

Date Tue 11/27/2018 8:44 AM

To jking perc-nw.com <jking@perc-nw.com>

Cc sduggan perc-nw.com <sduggan@perc-nw.com>; kking perc-nw.com <kking@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

Jeff,

The Health Department has reviewed the data associated with this submittal dated November 16, 19, and 23. The soils associated with these characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Tuesday, November 27, 2018 8:08 AM

To: David Bosch <DBosch@tpchd.org>

Cc: Steve Duggan <sduggan@perc-nw.com>; 'Kenny King' <kking@perc-nw.com>; grimstedb@uspioneer.com

Subject: Three data packages for your approval

David:

Attached are three data packages (for five soil samples) for your consideration. Each sample represents approximately 22 CY of soil. The following table summarizes the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-71A-111218	3.05	2.00	8.74
SO-TC-71B-111318	1.12	ND	7.38
SO-TC-73A-112018	0.111	ND	8.94
SO-TC-73B-112018	0.109	ND	8.93
SO-TC-73C-112018	0.133	0.0324	8.94

Please let me know if it is acceptable to you.

Thanks

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

16 November 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18K0171

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18K0171		Turn-around Requested: 3 Day		Date: 11/12/2018		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of					
Client Contact: Kenny King				No. of Coolers: 2 Cooler Temps: 18.6°C					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	PH 9045C				
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-71A-111218	11/12/18	13:30	Soil	1	✓	✓			
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Isaac Weir</i>		Relinquished by: (Signature)		Received by: (Signature)	
		Printed Name: Kenny King		Printed Name: Isaac Weir		Printed Name:		Printed Name:	
		Company: PERC		Company: ARI		Company:		Company:	
		Date & Time: 11/12/18 15:25		Date & Time: 11/12/18 1525		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-71A-111218	18K0171-01	Solid	12-Nov-2018 13:30	12-Nov-2018 15:24



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:06

Work Order Case Narrative

Sample receipt

The samples listed on the preceding page were received November 12, 2018 under ARI work order 18K0171. For details regarding sample receipt, please refer to the Cooler Receipt Form.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other _____

Assigned ARI Job No: 18K0171

Tracking No. NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 18.6°C

Time 1524

If cooler temperature is out of compliance fill out form 00070F

Cooler Accepted by: JAW Date 11/12/18 Time: 1524 Temp Gun ID#: 2005206

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI... NA

Was Sample Split by ARI: NO YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by Self Date 11-12-18 Time 1549

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2 mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
--	---------------------------------	--	---



Cooler Temperature Compliance Form

Completed by: SSC Date: 11/12/16 Time: 1529



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:06

SO-TC-71A-111218
18K0171-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/12/2018 13:30

Instrument: ICP2 Analyst: MCB

Analyzed: 11/15/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGK0336 Sample Size: 25 mL (wet)
Prepared: 14-Nov-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	3.05	mg/L	
Lead	7439-92-1	5	0.0065	0.100	2.00	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:06

SO-TC-71A-111218
18K0171-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/12/2018 13:30

Instrument: Accumet XL60 Analyst: WCW

Analyzed: 11/14/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGK0338

Prepared: 14-Nov-2018

Sample Size: 20.22 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.74	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:06

TCLP Metals and Metallic Compounds - Quality Control

Batch BGK0336 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BGK0336-BLK1)					Prepared: 14-Nov-2018 Analyzed: 15-Nov-2018 13:01					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:06

Wet Chemistry - Quality Control

Batch BGK0338 - EPA 9045D

Instrument: Accumet XL60 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGK0338-BS1)									
Prepared: 14-Nov-2018 Analyzed: 14-Nov-2018 15:00									
pH	7.00	0.01	0.01	pH Units	7.00	100	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:06

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2018 12:06

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

27 November 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18K0282

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

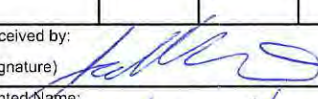
Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18K0282		Turn-around Requested: 2 Day		Date: 11/20/2018		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of					
Client Contact: Kenny King				No. of Coolers: 0 Cooler Temps: 17.1°C					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		PH 9045C			
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-73A-112018	11/20/18	13:20	Soil	1	✓	✓			
SO-TC-73B-112018	11/20/18	13:30	Soil	1	✓	✓			
SO-TC-73C-112018	11/20/18	13:40	Soil	1	✓	✓			
Comments/Special Instructions		Relinquished by: (Signature) 		Received by: (Signature) 		Relinquished by: (Signature)		Received by: (Signature)	
		Printed Name: Jeff King		Printed Name: Jacob Walte		Printed Name:		Printed Name:	
		Company: PERC		Company: ARI		Company:		Company:	
		Date & Time: 11/20/18 2:50		Date & Time: 11/20/18 1450		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2018 10:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-73A-112018	18K0282-01	Solid	20-Nov-2018 13:20	20-Nov-2018 14:50
SO-TC-73B-112018	18K0282-02	Solid	20-Nov-2018 13:30	20-Nov-2018 14:50
SO-TC-73C-112018	18K0282-03	Solid	20-Nov-2018 13:40	20-Nov-2018 14:50



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2018 10:36

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received November 20, 2018 under ARI work order 18K0282. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD and Matrix Spike percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: PEARL

Project Name: Superior Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 18K0282

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 17.1°

Time: 1450

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID# D003206

Cooler Accepted by: JSW Date: 11/20/18 Time: 1450

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Was Sample Split by ARI NA YES Date/Time: 11/20/18 Equipment: 1452 Split by: JSW

Samples Logged by: JSW Date: 11/20/18 Time: 1452

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles - 2mm 	Pea bubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Pea bubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
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Cooler Temperature Compliance Form

Page 6 of 16 18K0282 ARISample FINAL 27 Nov 2018 1036



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2018 10:36

SO-TC-73A-112018
18K0282-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/20/2018 13:20

Instrument: ICP2 Analyst: MCB

Analyzed: 11/23/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGK0517 Sample Size: 25 mL (wet)
Prepared: 21-Nov-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.111	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2018 10:36

SO-TC-73A-112018
18K0282-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/20/2018 13:20

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 11/23/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGK0540

Prepared: 23-Nov-2018

Sample Size: 20.35 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.94	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2018 10:36

SO-TC-73B-112018
18K0282-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/20/2018 13:30

Instrument: ICP2 Analyst: MCB

Analyzed: 11/23/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGK0517 Sample Size: 25 mL (wet)
Prepared: 21-Nov-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.109	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2018 10:36

SO-TC-73B-112018
18K0282-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/20/2018 13:30

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 11/23/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGK0540

Prepared: 23-Nov-2018

Sample Size: 20.03 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.93	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2018 10:36

SO-TC-73C-112018
18K0282-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/20/2018 13:40

Instrument: ICP2 Analyst: MCB

Analyzed: 11/23/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGK0517 Sample Size: 25 mL (wet)
Prepared: 21-Nov-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.133	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0324	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2018 10:36

SO-TC-73C-112018
18K0282-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/20/2018 13:40

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 11/23/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGK0540

Prepared: 23-Nov-2018

Sample Size: 20.06 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.94	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2018 10:36

TCLP Metals and Metallic Compounds - Quality Control

Batch BGK0517 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGK0517-BLK1)						Prepared: 21-Nov-2018 Analyzed: 23-Nov-2018 13:06					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BGK0517-DUP1)						Source: 18K0282-01 Prepared: 21-Nov-2018 Analyzed: 23-Nov-2018 13:23					
Arsenic	0.131	0.0140	0.250	mg/L		0.111			16.20	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BGK0517-MS1)						Source: 18K0282-01 Prepared: 21-Nov-2018 Analyzed: 23-Nov-2018 13:27					
Arsenic	4.47	0.0140	0.250	mg/L	4.00	0.111	109	75-125			
Lead	4.09	0.0065	0.100	mg/L	4.00	ND	102	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2018 10:36

Wet Chemistry - Quality Control

Batch BGK0540 - EPA 9045D

Instrument: Accumet AR60 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGK0540-BS1)									
Prepared: 23-Nov-2018 Analyzed: 23-Nov-2018 13:01									
pH	6.99	0.01	0.01	pH Units	7.00	99.9	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2018 10:36

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2018 10:36

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Fwd: Two data package for approval

From jking perc-nw.com <jking@perc-nw.com>

Date Wed 12/5/2018 10:14 AM

To kking perc-nw.com <kking@perc-nw.com>; sduggan perc-nw.com <sduggan@perc-nw.com>; Brad Grimsted <grimstedb@uspioneer.com>

FYI

Jeffrey D King, P.G/L.G

Pacific Environmental & Redevelopment Corp (PERC)

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----- Forwarded message -----

From: "David Bosch" <DBosch@tpchd.org>

Date: Wed, Dec 5, 2018 at 10:10 AM -0800

Subject: RE: Two data package for approval

To: "Jeffrey D King" <jking@perc-nw.com>

Jeff,

Thank you for the clarification.

The Tacoma-Pierce County Health Department has reviewed the data dated November 30 and December 3, 2018. The soils characterized by these samplings may be disposed of at the LRI Landfill except for the soils characterized by the drawing submitted to the Health Department on December 5, 2018 (i.e., batch SO-TC-74C-112618 and a portion of batch SO-TC-74B-112618).

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>
Sent: Wednesday, December 5, 2018 9:53 AM
To: David Bosch <DBosch@tpchd.org>
Subject: RE: Two data package for approval

Oops I thought I sent the corrected one to you yesterday. Here it is.

From: David Bosch [<mailto:DBosch@tpchd.org>]
Sent: Wednesday, December 5, 2018 9:35 AM
To: Jeffrey D King <jking@perc-nw.com>
Subject: FW: Two data package for approval

Hi Jeff,

This was the last drawing I received. This drawing had the incorrect sample numbers on it.

Please provide a corrected drawing and verification that the stockpile of concern (SO-TC-74C-112618) was removed to be retreated for lead.

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>
Sent: Tuesday, December 4, 2018 12:56 PM
To: David Bosch <DBosch@tpchd.org>
Subject: RE: Two data package for approval

Does this help?

From: David Bosch [<mailto:DBosch@tpchd.org>]

Sent: Tuesday, December 4, 2018 11:15 AM

To: Jeffrey D King <jking@perc-nw.com>

Cc: Steve Duggan <sduggan@perc-nw.com>; grimstedb@uspioneer.com; kking@perc-nw.com

Subject: RE: Two data package for approval

Jeff,

Could you please update the soil stockpile drawing to correlate the batch that will be retreated (SO-TC-74C-112618 and half of SO-TC-74B-112618)?

Thank you.

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Tuesday, December 4, 2018 10:15 AM

To: David Bosch <DBosch@tpchd.org>

Cc: Steve Duggan <sduggan@perc-nw.com>; grimstedb@uspioneer.com; kking@perc-nw.com

Subject: Two data package for approval

David:

Attached are two data packages for your consideration. We are asking for approval of soils related to SO-TC-74A-112618, ½ of SO-TC-74B-112618 (only the half stockpiled adjacent to SO-TC-74A-112618 – see attached drawing), SO-TC-75A-112718, SO-TC-75B-112718 and SO-TC-75C-112718 only. As you can see we had a failure for soils represented by SO-TC-74C-112618. We have removed that soil from the stockpile (for re-treatment) along with half of the soil from SO-TC-74B-112618 (approximately 10 CY) which was in contact with soil presented by SO-TC-74C-112618.

The following table presents the data:

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-74A-112618	0.193	0.692	8.64
SO-TC-74B-112618	0.152	0.748	6.31
SO-TC-74C-112618	0.127	12.1	5.77
SO-TC-75A-112718	0.585	1.72	8.83
SO-TC-75B-112718	0.695	0.761	8.84
SO-TC-75C-112718	0.198	ND	9.06

Please let me know if the above was confusing and I can give you a call.

My Best

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

30 November 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18K0342

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 18K0342		Turn-around Requested: 3 Day		
ARI Client Company: PERC		Phone: 425-346-0921		
Client Contact: Kenny King				
Client Project Name: Superlon Plastics				
Client Project #: SLON		Samplers: King		
Sample ID	Date	Time	Matrix	No. Containers
SO-TC-74A-112618	11/26/18	10:20	Soil	1
SO-TC-74B-112618	11/26/18	10:30	Soil	1
SO-TC-74C-112618	11/26/18	10:40	Soil	1
Comments/Special Instructions	Relinquished by: (Signature) 		Received by: (Signature) 	
	Printed Name: JEFF KING		Printed Name: A	
	Company: PERC		Company: A	
	Date & Time: 11/26/18 4:39		Date & Time: 11/26/18 4:39	

	Date of Birth: 11/26/18	4139	Date of Birth: 11/2
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	Date of Birth: 11/26/18	4139	Date of Birth: 11/2
--	-------------------------	------	---------------------

	Date of Birth: 11/26/18	4139	Date of Birth: 11/2
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Page 2 of 16 18K0342 ARISample FINAL 30 Nov 2018 1050



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Nov-2018 10:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-74A-112618	18K0342-01	Solid	26-Nov-2018 10:20	26-Nov-2018 16:39
SO-TC-74B-112618	18K0342-02	Solid	26-Nov-2018 10:30	26-Nov-2018 16:39
SO-TC-74C-112618	18K0342-03	Solid	26-Nov-2018 10:40	26-Nov-2018 16:39



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Nov-2018 10:50

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received November 26, 2018 under ARI work order 18K0342. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD and Matrix Spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other

Assigned ARI Job No: 18K0342

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 23.7°C

Time: 1639

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: D005306

Cooler Accepted by: JSW Date: 11/26/18 Time: 1639

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JSW Date: 11/26/18 Time: 1654

** Notify Project Manager of discrepancies or concerns **

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles ~ 2mm 	PeaBubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) PeaBubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
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Cooler Temperature Compliance Form

Completed by: JS Date: 11/26/18 Time: 1639

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Nov-2018 10:50

SO-TC-74A-112618
18K0342-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/26/2018 10:20

Instrument: ICP2 Analyst: MCB

Analyzed: 11/29/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGK0640 Sample Size: 25 mL (wet)
Prepared: 28-Nov-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.193	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.692	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Nov-2018 10:50

SO-TC-74A-112618
18K0342-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/26/2018 10:20

Instrument: Accumet AR60 Analyst: BF

Analyzed: 11/27/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGK0607

Prepared: 27-Nov-2018

Sample Size: 20.1 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.64	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Nov-2018 10:50

SO-TC-74B-112618
18K0342-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/26/2018 10:30

Instrument: ICP2 Analyst: MCB

Analyzed: 11/29/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGK0640 Sample Size: 25 mL (wet)
Prepared: 28-Nov-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.152	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.748	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Nov-2018 10:50

SO-TC-74B-112618
18K0342-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/26/2018 10:30

Instrument: Accumet AR60 Analyst: BF

Analyzed: 11/27/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGK0607

Prepared: 27-Nov-2018

Sample Size: 20.04 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.31	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Nov-2018 10:50

SO-TC-74C-112618
18K0342-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/26/2018 10:40

Instrument: ICP2 Analyst: MCB

Analyzed: 11/29/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGK0640 Sample Size: 25 mL (wet)
Prepared: 28-Nov-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.127	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	12.1	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Nov-2018 10:50

SO-TC-74C-112618
18K0342-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/26/2018 10:40

Instrument: Accumet AR60 Analyst: BF

Analyzed: 11/27/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGK0607

Prepared: 27-Nov-2018

Sample Size: 20.02 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	5.77	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Nov-2018 10:50

TCLP Metals and Metallic Compounds - Quality Control

Batch BGK0640 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGK0640-BLK1)						Prepared: 28-Nov-2018 Analyzed: 29-Nov-2018 12:58					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BGK0640-DUP1)						Source: 18K0342-03 Prepared: 28-Nov-2018 Analyzed: 29-Nov-2018 13:15					
Arsenic	0.147	0.0140	0.250	mg/L		0.127			14.40	20	J
Lead	12.4	0.0065	0.100	mg/L		12.1			2.84	20	
Matrix Spike (BGK0640-MS1)						Source: 18K0342-03 Prepared: 28-Nov-2018 Analyzed: 29-Nov-2018 13:19					
Arsenic	4.44	0.0140	0.250	mg/L	4.00	0.127	108	75-125			
Lead	16.4	0.0065	0.100	mg/L	4.00	12.1	108	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Nov-2018 10:50

Wet Chemistry - Quality Control

Batch BGK0607 - EPA 9045D

Instrument: Accumet AR60 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGK0607-BS1)					Prepared: 27-Nov-2018 Analyzed: 27-Nov-2018 12:51				
pH	7.01	0.01	0.01	pH Units	7.00	100	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Nov-2018 10:50

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
DoD-ELAP DW	DoD-Environmental Laboratory Accreditation - Drinking Water	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



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8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Nov-2018 10:50

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

03 December 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18K0370

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18K0370		Turn-around Requested: 3 Day		Date: 11/27/2018		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of					
Client Contact: Kenny King		No. of Coolers: Cooler Temps: 11c1							
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		PH 9045C			
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-75A-112718	11/27/18	14:30	Soil	1	✓	✓			
SO-TC-75B-112718	11/27/18	14:40	Soil	1	✓	✓			
SO-TC-75C-112718	11/27/18	14:50	Soil	1	✓	✓			
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jasmine Bauman</i>		Relinquished by: (Signature)		Received by: (Signature)	
		Printed Name: Kenny King		Printed Name: Jasmine Bauman		Printed Name:		Printed Name:	
		Company: PERC		Company: ARI		Company:		Company:	
		Date & Time: 11/27/18 3:39		Date & Time: 11/27/18 15:39		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Dec-2018 14:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-75A-112718	18K0370-01	Solid	27-Nov-2018 14:30	27-Nov-2018 15:39
SO-TC-75B-112718	18K0370-02	Solid	27-Nov-2018 14:40	27-Nov-2018 15:39
SO-TC-75C-112718	18K0370-03	Solid	27-Nov-2018 14:50	27-Nov-2018 15:39



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Dec-2018 14:17

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received November 27, 2018 under ARI work order 18K0370. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

The Duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD and Matrix Spike percent recoveries were within control limits.



Cooler Receipt Form

ARI Client PERC

Project Name: Superior Plastics

COC No(s). NA

Delivered by Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No 18160370

Tracking No NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 11.1
Time 1539
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DcoS206

Cooler Accepted by: JSW Date: 11/27/18 Time: 1539

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? NA YES NO
Were all bottles sealed in individual plastic bags? YES NO
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Was Sample Split by ARI NA YES NO Date/Time: NA Equipment: NA Split by: NA

Samples Logged by: JSW Date: 11/27/18 Time: 1610

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles → 2mm 	Pebubbles 2-4 mm 	LARGE Air Bubbles → 4 mm 	Small → "sm" (< 2 mm) Pebubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
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Cooler Temperature Compliance Form

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Dec-2018 14:17

SO-TC-75A-112718
18K0370-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/27/2018 14:30

Instrument: ICP2 Analyst: MCB

Analyzed: 11/30/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGK0705 Sample Size: 25 mL (wet)
Prepared: 30-Nov-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.585	mg/L	
Lead	7439-92-1	5	0.0065	0.100	1.72	mg/L	



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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
03-Dec-2018 14:17

SO-TC-75A-112718
18K0370-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/27/2018 14:30

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 12/03/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGL0004

Prepared: 03-Dec-2018

Sample Size: 20 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.83	pH Units	



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Project Manager: Kenny King

Reported:
03-Dec-2018 14:17

SO-TC-75B-112718
18K0370-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/27/2018 14:40

Instrument: ICP2 Analyst: MCB

Analyzed: 11/30/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGK0705 Sample Size: 25 mL (wet)
Prepared: 30-Nov-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.695	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.761	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
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Project Manager: Kenny King

Reported:
03-Dec-2018 14:17

SO-TC-75B-112718
18K0370-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/27/2018 14:40

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 12/03/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGL0004

Prepared: 03-Dec-2018

Sample Size: 20 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.84	pH Units	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Dec-2018 14:17

SO-TC-75C-112718
18K0370-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/27/2018 14:50

Instrument: ICP2 Analyst: MCB

Analyzed: 11/30/2018

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGK0705 Sample Size: 25 mL (wet)
Prepared: 30-Nov-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.198	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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Project Manager: Kenny King

Reported:
03-Dec-2018 14:17

SO-TC-75C-112718
18K0370-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/27/2018 14:50

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 12/03/2018

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGL0004

Prepared: 03-Dec-2018

Sample Size: 20 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.06	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Dec-2018 14:17

TCLP Metals and Metallic Compounds - Quality Control

Batch BGK0705 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGK0705-BLK1)						Prepared: 30-Nov-2018 Analyzed: 30-Nov-2018 17:05					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BGK0705-DUP1)						Source: 18K0370-01 Prepared: 30-Nov-2018 Analyzed: 30-Nov-2018 17:23					
Arsenic	0.574	0.0140	0.250	mg/L		0.585			1.97	20	
Lead	1.70	0.0065	0.100	mg/L		1.72			0.81	20	
Matrix Spike (BGK0705-MS1)						Source: 18K0370-01 Prepared: 30-Nov-2018 Analyzed: 30-Nov-2018 17:27					
Arsenic	4.15	0.0140	0.250	mg/L	4.00	0.585	89.1	75-125			
Lead	4.97	0.0065	0.100	mg/L	4.00	1.72	81.4	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Dec-2018 14:17

Wet Chemistry - Quality Control

Batch BGL0004 - EPA 9045D

Instrument: Accumet AR60 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BGL0004-BS1)										
						Prepared: 03-Dec-2018 Analyzed: 03-Dec-2018 08:18				
pH	7.02	0.01	0.01	pH Units	7.00	100	0-200			
Duplicate (BGL0004-DUP1)										
		Source: 18K0370-01				Prepared: 03-Dec-2018 Analyzed: 03-Dec-2018 08:18				
pH	8.84	0.01	0.01	pH Units	8.83			0.11	20	



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Dec-2018 14:17

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
DoD-ELAP DW	DoD-Environmental Laboratory Accreditation - Drinking Water	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Dec-2018 14:17

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Two additional data packages for your approval

From David Bosch <DBosch@tpchd.org>

Date Wed 12/12/2018 7:47 AM

To jking perc-nw.com <jking@perc-nw.com>

Cc kking perc-nw.com <kking@perc-nw.com>; sduggan perc-nw.com <sduggan@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

Jeff,

The Tacoma-Pierce County Health Department has reviewed the two data sets dated December 11, 2018. The soils characterized by these samples are acceptable for disposal at the LRI Landfill.

It's been a pleasure working with you.

Happy Holidays to you as well!

David Bosch

Environmental Health Specialist II

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Tuesday, December 11, 2018 5:20 PM

To: David Bosch <DBosch@tpchd.org>

Cc: kking@perc-nw.com; Steve Duggan <sduggan@perc-nw.com>; grimstedb@uspioneer.com

Subject: Two additional data packages for your approval

David:

Attached are two additional data packages for your approval. Each sample represents approximately 22 CY of soil that we hope to dispose of at LRI. These are the last soils that we hope to dispose of in 2018 as we will be shutting down for the winter. The following table shows the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-76A-120418	0.141	ND	9.18
SO-TC-76B-120418	0.107	ND	9.5
SO-TC-76C-120418	0.125	ND	9.49
SO-TC-77A-120518	0.137	ND	9.17
SO-TC-77B-120518	0.0745	ND	9.33

SO-TC-77C-120518	0.0493	ND	8.97
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Thank you for your consideration and have a happy holiday season. We will be contacting you in April 2019 when we start up again.

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

11 December 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18L0048

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18L0045	Turn-around Requested: 3 Day	Date: 12/4/2018
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 1 Cooler Temps: 16.6



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments			
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	PH 9045C										
Sample ID	Date	Time	Matrix	No. Containers												
SO-TC-76A-120418	12/04/18	13:00	Soil	1	✓	✓										
SO-TC-76B-120418	12/04/18	13:10	Soil	1	✓	✓										
SO-TC-76C-120418	12/04/18	13:20	Soil	1	✓	✓										
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Stephanie Fisuel</i>			Relinquished by: (Signature)			Received by: (Signature)		
					Printed Name: Kenny King			Printed Name: Stephanie Fisuel			Printed Name:			Printed Name:		
					Company: PERC			Company: ARI			Company:			Company:		
					Date & Time: 12/4/18 17:05			Date & Time: 12-4-18 1705			Date & Time:			Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-76A-120418	18L0048-01	Solid	04-Dec-2018 13:00	04-Dec-2018 17:05
SO-TC-76B-120418	18L0048-02	Solid	04-Dec-2018 13:10	04-Dec-2018 17:05
SO-TC-76C-120418	18L0048-03	Solid	04-Dec-2018 13:20	04-Dec-2018 17:05



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:21

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received December 4, 2018 under ARI work order 18L0048. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

The Duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD and Matrix Spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PESC

COC No(s): _____

Assigned ARI Job No: 18L0048

Project Name: _____

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No: _____

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? _____

YES

NO

Were custody papers included with the cooler? _____

YES

NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES

NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1705

16.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: D002565

Cooler Accepted by: Set Date: 12-4-18 Time: 1705

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES

NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other _____

Was sufficient ice used (if appropriate)? _____

NA

YES

NO

Were all bottles sealed in individual plastic bags? _____

YES

NO

Did all bottles arrive in good condition (unbroken)? _____

YES

NO

Were all bottle labels complete and legible? _____

YES

NO

Did the number of containers listed on COC match with the number of containers received? _____

YES

NO

Did all bottle labels and tags agree with custody papers? _____

YES

NO

Were all bottles used correct for the requested analyses? _____

YES

NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA

YES

NO

Were all VOC vials free of air bubbles? _____

NA

YES

NO

Was sufficient amount of sample sent in each bottle? _____

YES

NO

Date VOC Trip Blank was made at ARI: _____

NA

Was Sample Split by ARI: NA YES _____ Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Set Date: 12-4-18 Time: 1708

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles - 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
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Cooler Temperature Compliance Form

ARI Work Order: <u>18C-0048</u>		
Cooler#:	Temperature(°C): <u>16.6</u>	
Sample ID	Bottle Count	Bottle Type
<u>Sample received</u> <u>above 6°</u>		
Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type
Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type
Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type

Completed by: Sef Date: 12-9-18 Time: 1705



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:21

SO-TC-76A-120418
18L0048-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 12/04/2018 13:00

Instrument: ICP2 Analyst: TCH

Analyzed: 12/07/2018 12:24

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGL0143 Sample Size: 25 mL (wet)
Prepared: 06-Dec-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.141	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:21

SO-TC-76A-120418
18L0048-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/04/2018 13:00

Instrument: Accumet AR60 Analyst: BF

Analyzed: 12/10/2018 12:21

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGL0216

Prepared: 10-Dec-2018

Sample Size: 20.09 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.18	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:21

SO-TC-76B-120418

18L0048-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 12/04/2018 13:10

Instrument: ICP2 Analyst: TCH

Analyzed: 12/07/2018 12:28

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGL0143 Sample Size: 25 mL (wet)
Prepared: 06-Dec-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.107	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:21

SO-TC-76B-120418
18L0048-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/04/2018 13:10

Instrument: Accumet AR60 Analyst: BF

Analyzed: 12/10/2018 12:21

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGL0216

Prepared: 10-Dec-2018

Sample Size: 20.1 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.50	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:21

SO-TC-76C-120418
18L0048-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 12/04/2018 13:20

Instrument: ICP2 Analyst: TCH

Analyzed: 12/07/2018 11:42

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGL0143 Sample Size: 25 mL (wet)
Prepared: 06-Dec-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.125	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:21

SO-TC-76C-120418
18L0048-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/04/2018 13:20

Instrument: Accumet AR60 Analyst: BF

Analyzed: 12/10/2018 12:21

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGL0216

Prepared: 10-Dec-2018

Sample Size: 20.04 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.49	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:21

TCLP Metals and Metallic Compounds - Quality Control

Batch BGL0143 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGL0143-BLK1)						Prepared: 06-Dec-2018 Analyzed: 07-Dec-2018 11:29					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BGL0143-DUP1)						Source: 18L0048-03 Prepared: 06-Dec-2018 Analyzed: 07-Dec-2018 11:37					
Arsenic	0.119	0.0140	0.250	mg/L		0.125			5.14	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BGL0143-MS1)						Source: 18L0048-03 Prepared: 06-Dec-2018 Analyzed: 07-Dec-2018 11:46					
Arsenic	4.45	0.0140	0.250	mg/L	4.00	0.125	108	75-125			
Lead	3.97	0.0065	0.100	mg/L	4.00	ND	99.1	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:21

Wet Chemistry - Quality Control

Batch BGL0216 - EPA 9045D

Instrument: Accumet AR60 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BGL0216-BS1)										
						Prepared: 10-Dec-2018 Analyzed: 10-Dec-2018 12:21				
pH	6.98	0.01	0.01	pH Units	7.00	99.7	0-200			
Duplicate (BGL0216-DUP1)										
		Source: 18L0048-01				Prepared: 10-Dec-2018 Analyzed: 10-Dec-2018 12:21				
pH	9.45	0.01	0.01	pH Units	9.18	2.90	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:21

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
DoD-ELAP DW	DoD-Environmental Laboratory Accreditation - Drinking Water	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:21

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

11 December 2018

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
18L0068

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 18L0068		Turn-around Requested: 2 Day			Date: 12/5/18			 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)						
ARI Client Company: PERC		Phone: 425-346-0921			Page: of									
Client Contact: PERC					No. of Coolers: 0 Cooler Temps: 21.8°C									
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments		
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only PH 9045C									
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-77A-120518	12/05/18	12:00	Soil	1		✓	✓							
SO-TC-77B-120518	12/05/18	12:10	Soil	1		✓	✓							
SO-TC-77C-120518	12/05/18	12:20	Soil	1		✓	✓							
Comments/Special Instructions					Relinquished by:		Received by:		Relinquished by:		Received by:			
					(Signature)		(Signature)		(Signature)		(Signature)			
					Printed Name:		Printed Name:		Printed Name:		Printed Name:			
					Jeff King		Jacob Walter							
					Company:		Company:		Company:		Company:			
					PERC		ARI							
					Date & Time:		Date & Time:		Date & Time:		Date & Time:			
					12/5/18 3:22		12/05/18 1522							

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-77A-120518	18L0068-01	Solid	05-Dec-2018 12:00	05-Dec-2018 15:22
SO-TC-77B-120518	18L0068-02	Solid	05-Dec-2018 12:10	05-Dec-2018 15:22
SO-TC-77C-120518	18L0068-03	Solid	05-Dec-2018 12:20	05-Dec-2018 15:22



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:24

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received December 5, 2018 under ARI work order 18L0068. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD and Matrix Spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Spartan Plastics

COC No(s): 18L0068 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other

Assigned ARI Job No: 18L0068

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 21.8°C

Time: 1522

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 2005206

Cooler Accepted by: JBM Date: 12/05/18 Time: 1522

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Was Sample Split by ARI: NA YES Date/Time: Equipment: Split by:

Samples Logged by: Seif Date: 12-5-18 Time: 1653

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Small Air Bubbles - 2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" (< 2 mm) Peabubbles → "pb" (2 to < 4 mm) Large → "lg" (4 to < 6 mm) Headspace → "hs" (> 6 mm)
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Cooler Temperature Compliance Form

ARI Work Order: 19200208

Cooler#: _____ Temperature(°C): 21.0°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received
about 6°C

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: SJS Date: 12/05/10 Time: 1522



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:24

SO-TC-77A-120518
18L0068-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 12/05/2018 12:00

Instrument: ICP2 Analyst: TCH

Analyzed: 12/10/2018 12:06

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGL0178 Sample Size: 25 mL (wet)
Prepared: 07-Dec-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.137	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:24

SO-TC-77A-120518
18L0068-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/05/2018 12:00

Instrument: Accumet AR60 Analyst: BF

Analyzed: 12/10/2018 12:21

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGL0216

Prepared: 10-Dec-2018

Sample Size: 20.07 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.17	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:24

SO-TC-77B-120518
18L0068-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 12/05/2018 12:10

Instrument: ICP2 Analyst: TCH

Analyzed: 12/10/2018 11:53

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGL0178 Sample Size: 25 mL (wet)
Prepared: 07-Dec-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0745	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:24

SO-TC-77B-120518
18L0068-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/05/2018 12:10

Instrument: Accumet AR60 Analyst: BF

Analyzed: 12/10/2018 12:21

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGL0216

Prepared: 10-Dec-2018

Sample Size: 20.03 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.33	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:24

SO-TC-77C-120518
18L0068-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 12/05/2018 12:20

Instrument: ICP2 Analyst: TCH

Analyzed: 12/10/2018 11:57

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BGL0178 Sample Size: 25 mL (wet)
Prepared: 07-Dec-2018 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0493	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:24

SO-TC-77C-120518
18L0068-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/05/2018 12:20

Instrument: Accumet AR60 Analyst: BF

Analyzed: 12/10/2018 12:21

Sample Preparation:

Preparation Method: EPA 9045D

Preparation Batch: BGL0216

Prepared: 10-Dec-2018

Sample Size: 20.04 g (wet)

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.97	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:24

TCLP Metals and Metallic Compounds - Quality Control

Batch BGL0178 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BGL0178-BLK1)						Prepared: 07-Dec-2018 Analyzed: 10-Dec-2018 11:41					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BGL0178-DUP1)						Source: 18L0068-01 Prepared: 07-Dec-2018 Analyzed: 10-Dec-2018 12:01					
Arsenic	0.129	0.0140	0.250	mg/L		0.137			6.54	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BGL0178-MS1)						Source: 18L0068-01 Prepared: 07-Dec-2018 Analyzed: 10-Dec-2018 12:10					
Arsenic	4.36	0.0140	0.250	mg/L	4.00	0.137	105	75-125			
Lead	3.93	0.0065	0.100	mg/L	4.00	ND	98.2	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:24

Wet Chemistry - Quality Control

Batch BGL0216 - EPA 9045D

Instrument: Accumet AR60 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BGL0216-BS1)					Prepared: 10-Dec-2018 Analyzed: 10-Dec-2018 12:21				
pH	6.98	0.01	0.01	pH Units	7.00	99.7	0-200		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Dec-2018 11:24

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	02/07/2019
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/07/2019
DoD-ELAP DW	DoD-Environmental Laboratory Accreditation - Drinking Water	66169	02/07/2019
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



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Project: Superlon Plastics
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Reported:
11-Dec-2018 11:24

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the applicable reporting or detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Three data packages for your approval

From David Bosch <DBosch@tpchd.org>

Date Mon 4/15/2019 2:46 PM

To jking perc-nw.com <jking@perc-nw.com>

Cc sduggan perc-nw.com <sduggan@perc-nw.com>; kking perc-nw.com <kking@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

Jeffrey,

The Health Department has reviewed the data associated with the submittal dated April 15, 2019. These characterized soils are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Monday, April 15, 2019 2:26 PM

To: David Bosch <DBosch@tpchd.org>

Cc: Steve Duggan <sduggan@perc-nw.com>; 'Kenny King' <kking@perc-nw.com>; grimstedb@uspioneer.com

Subject: RE: Three data packages for your approval

David:

Just picked up the permit (#2324) for this year and received the first set of data. Each sample representing approximate 23 CY. The data is summarized below.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-78A-041019	0.0602	ND	8.6
SO-TC-78B-041019	0.0479	ND	9.67
SO-TC-78C-041019	0.0732	0.0106	9.2

Please let me know if you have any concerns.

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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From: David Bosch [<mailto:DBosch@tpchd.org>]

Sent: Monday, April 15, 2019 9:59 AM

To: Jeffrey D King <jking@perc-nw.com>

Subject: RE: Three data packages for your approval

Good morning Jeffrey,

Your existing WDA for this project expires April 30, 2019. Please complete the WDA application for a WDA renewal for this project.

The TPCHD link to the WDA page:

<https://www.tpchd.org/healthy-places/waste-management/waste-disposal-authorization>

The WDA application:

<https://www.tpchd.org/home/showdocument?id=946>

Please contact me if you have any questions.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Tuesday, April 9, 2019 7:54 AM

To: David Bosch <DBosch@tpchd.org>

Subject: RE: Three data packages for your approval

David:



Analytical Resources, Incorporated
Analytical Chemists and Consultants

16 April 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19D0152

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19D0152 Turn-around Requested: 2 Day

ARI Client Company: PERC Phone: 425-346-0921

Client Contact: Kenny King

Client Project Name: Superlon Plastics

Client Project #: SLON Samplers: King

Sample ID	Date	Time	Matrix	No. Containers
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SO-TC-78A-041019	04/10/19	11:50	Soil	1
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SO-TC-78B-041019	04/10/19	12:00	Soil	1
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SO-TC-78C-041019	04/10/19	12:10	Soil	1
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Date: 4/10/2019

Page: of

No. of Coolers: Cooler Temps: 19.1°C

Analysis Requested

TCLP 1311 As/Pb Only

PH 9045C



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Comments/Special Instructions

Relinquished by: [Signature]
(Signature)

Printed Name: Jeff King

Company: PERC

Date & Time: 4/10/19 2:32PM

Received by: [Signature]
(Signature)

Printed Name: Jeff King

Company: PERC

Date & Time: 4/10/19 1432

Relinquished by: [Signature]
(Signature)

Printed Name:

Company:

Date & Time:

Received by: [Signature]
(Signature)

Printed Name:

Company:

Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2019 08:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-78A-041019	19D0152-01	Solid	10-Apr-2019 11:50	10-Apr-2019 14:32
SO-TC-78B-041019	19D0152-02	Solid	10-Apr-2019 12:00	10-Apr-2019 14:32
SO-TC-78C-041019	19D0152-03	Solid	10-Apr-2019 12:10	10-Apr-2019 14:32



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2019 08:51

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received April 10, 2019 under ARI work order 19D0152. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding time.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



WORK ORDER

19D0152

Client: PERC-Pacific Environmental and Redevelopment
Project: Superlon Plastics

Project Manager: Shelly Fishel
Project Number: SLON

Report To:

PERC-Pacific Environmental and Redevelopment Corp
Kenny King
8424 E Meadow Lake Drive
Snohomish, WA 98290
Phone: (425) 346-0921
Fax:

Invoice To:

PERC-Pacific Environmental and Redevelopment Corp
Jeffrey King
8424 E Meadow Lake Drive
Snohomish, WA 98290
Phone: (425) 238-2212
Fax:

Date Due: 12-Apr-2019 18:00 (2 day TAT)

Received By: Jacob Walter

Date Received: 10-Apr-2019 14:32

Logged In By: Erin I. Salle

Date Logged In: 10-Apr-2019 14:59

Samples Received at 19.1°C

Intact, properly signed and dated custody seals attached to outside of cooler(s).... No
Custody papers properly filled out (in, signed, analyses requested, etc). Yes
Was sufficient ice used (if appropriate).. No
All bottles arrived in good condition (unbroken).....Yes
Number of containers listed on COC match number receivedYes
Correct bottles used for the requested analysesYes
Analyses/bottles require preservation (attach preservation sheet excluding VOC) No
Sample split at ARI No

Custody papers included with the cooler Yes
Was a temperature blank included in the cooler No
All bottles sealed in individual plastic bags No
All bottle labels complete and legible Yes
Bottle labels and tags agree with COC Yes
All VOC vials free of air bubbles.. No
Sufficient amount of sample sent in each bottle... Yes

Analysis	Due	TAT	Expires	Comments
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WORK ORDER

19D0152

Client: PERC-Pacific Environmental and Redevelopment

Project Manager: Shelly Fishel

Project: Superlon Plastics

Project Number: SLON

Analysis	Due	TAT	Expires	Comments
19D0152-01 SO-TC-78A-041019 [Solid] Sampled 10-Apr-2019 11:50 (GMT-08:00) Pacific Time (US & Canada)				
<i>A = Glass WM, Clear, 8 oz</i>				
pH, EPA 9045D, Solid	12-Apr-2019 15:00	2	24-Apr-2019 11:50	
Solids, Total, Dried at 103 -105 °C, Solid	12-Apr-2019 15:00	2	08-May-2019 11:50	Cancel this analysis
TCLP 1311	12-Apr-2019 15:00	2	08-May-2019 11:50	
TCLP 6010C - As	12-Apr-2019 15:00	2	07-Oct-2019 11:50	
TCLP 6010C - Pb	12-Apr-2019 15:00	2	07-Oct-2019 11:50	
Filter 0.7 micron (TCLP)	12-Apr-2019 15:00	2	11-Apr-2019 14:32	
19D0152-02 SO-TC-78B-041019 [Solid] Sampled 10-Apr-2019 12:00 (GMT-08:00) Pacific Time (US & Canada)				
<i>A = Glass WM, Clear, 8 oz</i>				
Filter 0.7 micron (TCLP)	12-Apr-2019 15:00	2	11-Apr-2019 14:32	
pH, EPA 9045D, Solid	12-Apr-2019 15:00	2	24-Apr-2019 12:00	
Solids, Total, Dried at 103 -105 °C, Solid	12-Apr-2019 15:00	2	08-May-2019 12:00	Cancel this analysis
TCLP 1311	12-Apr-2019 15:00	2	08-May-2019 12:00	
TCLP 6010C - As	12-Apr-2019 15:00	2	07-Oct-2019 12:00	
TCLP 6010C - Pb	12-Apr-2019 15:00	2	07-Oct-2019 12:00	
19D0152-03 SO-TC-78C-041019 [Solid] Sampled 10-Apr-2019 12:10 (GMT-08:00) Pacific Time (US & Canada)				
<i>A = Glass WM, Clear, 8 oz</i>				
TCLP 6010C - Pb	12-Apr-2019 15:00	2	07-Oct-2019 12:10	
Filter 0.7 micron (TCLP)	12-Apr-2019 15:00	2	11-Apr-2019 14:32	
Solids, Total, Dried at 103 -105 °C, Solid	12-Apr-2019 15:00	2	08-May-2019 12:10	Cancel this analysis
TCLP 1311	12-Apr-2019 15:00	2	08-May-2019 12:10	
TCLP 6010C - As	12-Apr-2019 15:00	2	07-Oct-2019 12:10	
pH, EPA 9045D, Solid	12-Apr-2019 15:00	2	24-Apr-2019 12:10	

Reviewed By

Date

Page 2 of 2



Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 1900152

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1432 1912

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# P00

Cooler Accepted by: JSW

Date: 04/10/19

Time: 1432

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI... NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JSW Date: 4/10/19 Time: 1459 Labels checked by: JSW

Notify Project Manager of discrepancies or concerns

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: JTW Date: 04/10/19 Time: 1432

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2019 08:51

SO-TC-78A-041019
19D0152-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/10/2019 11:50

Instrument: ICP2 Analyst: TCH

Analyzed: 04/12/2019 15:26

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19D0152-01 A 02

Preparation Batch: BHD0364

Sample Size: 25 mL (wet)

Prepared: 12-Apr-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0602	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2019 08:51

SO-TC-78A-041019
19D0152-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/10/2019 11:50

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 04/11/2019 10:59

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19D0152-01 A

Preparation Batch: BHD0320

Sample Size: 20.13 g (wet)

Prepared: 11-Apr-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.60	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2019 08:51

SO-TC-78B-041019
19D0152-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/10/2019 12:00

Instrument: ICP2 Analyst: TCH

Analyzed: 04/12/2019 15:30

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19D0152-02 A 02

Preparation Batch: BHD0364

Sample Size: 25 mL (wet)

Prepared: 12-Apr-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0479	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2019 08:51

SO-TC-78B-041019
19D0152-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/10/2019 12:00

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 04/11/2019 10:59

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19D0152-02 A

Preparation Batch: BHD0320

Sample Size: 20.82 g (wet)

Prepared: 11-Apr-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.67	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2019 08:51

SO-TC-78C-041019
19D0152-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/10/2019 12:10

Instrument: ICP2 Analyst: TCH

Analyzed: 04/12/2019 15:34

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19D0152-03 A 02

Preparation Batch: BHD0364

Sample Size: 25 mL (wet)

Prepared: 12-Apr-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0732	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0106	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2019 08:51

SO-TC-78C-041019
19D0152-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/10/2019 12:10

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 04/11/2019 10:59

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19D0152-03 A

Preparation Batch: BHD0320

Sample Size: 20.48 g (wet)

Prepared: 11-Apr-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.20	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2019 08:51

TCLP Metals and Metallic Compounds - Quality Control

Batch BHD0364 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHD0364-BLK1)					Prepared: 12-Apr-2019 Analyzed: 12-Apr-2019 15:21				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2019 08:51

Wet Chemistry - Quality Control

Batch BHD0320 - EPA 9045D

Instrument: Accumet AR60 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BHD0320-BS1)						Prepared: 11-Apr-2019 Analyzed: 11-Apr-2019 10:59					
pH	7.00	0.01	0.01	pH Units	7.00		100	99.27-100.73			
Duplicate (BHD0320-DUP1)						Source: 19D0152-01 Prepared: 11-Apr-2019 Analyzed: 11-Apr-2019 10:59					
pH	8.63	0.01	0.01	pH Units		8.60			0.35	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2019 08:51

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



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Project: Superlon Plastics
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Reported:
16-Apr-2019 08:51

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Soil data packages for your approval

From David Bosch <DBosch@tpchd.org>

Date Tue 4/30/2019 9:19 AM

To jking perc-nw.com <jking@perc-nw.com>

Cc kking perc-nw.com <kking@perc-nw.com>; sduggan perc-nw.com <sduggan@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

Jeffrey,

The six batches of characterized soil listed below are acceptable for disposal at the LRI Landfill. The four data sets associated with these soils are dated April 19, 2019 and April 29, 2019 (3 sets).

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Tuesday, April 30, 2019 8:10 AM

To: David Bosch <DBosch@tpchd.org>

Cc: 'Kenny King' <kking@perc-nw.com>; Steve Duggan <sduggan@perc-nw.com>; grimstedb@uspioneer.com

Subject: Soil data packages for your approval

David:

Attached are four data packages. We had some pH (12.0) results that we did not feel comfortable with so we retreated those soils and the adjacent soils in the stockpile. Unfortunately these soils are include in the data packages. I noted on the data sheets that we are retreating the soil and are not asking for permission for disposal. The soils we are asked for permission for are only those listed below.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-79A-041119	0.0521	ND	9.06
SO-TC-79B2-042219	0.0804	ND	9.74
SO-TC-79C2-042219	0.0902	0.0098	9.45
SO-TC-80A-042219	0.752	2.51	8.5
SO-TC-80B-042219	0.163	1.52	8.01
SO-TC-81A-042219	0.0785	ND	10.4

I hope this is not too confusing.

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

19 April 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19D0215

Associated SDG ID(s)
N/A

**Shelly
Fishel**

Digitally signed by Shelly Fishel
DN: c=US, st=Washington,
l=Tukwila, o=Analytical
Resources, Inc., cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2019.04.19 14:05:57 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 19D0215		Turn-around Requested: 3 Day		Date: 4/15/2019		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)						
ARI Client Company: PERC		Phone: 425-346-0921		Page: of								
Client Contact: Kenny King		No. of Coolers: 1		Cooler Temps: 19.4								
Client Project Name: Superlon Plastics				Analysis Requested						Notes/Comments		
Client Project #: SLON		Samplers: Duggan		TCLP 1311 As/Pb Only		pH 9045C						
Sample ID	Date	Time	Matrix	No. Containers								
SO-TC-79A-041119	04/11/19	13:10	Soil	1	✓	✓						
SO-TC-79B-041119	04/11/19	13:20	Soil	1	✓	✓						
SO-TC-79C-041119	04/11/19	13:30	Soil	1	✓	✓						
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Erin Scille</i>		Relinquished by: (Signature)		Received by: (Signature)		
				Printed Name: <i>Kenny King</i>		Printed Name: <i>Erin Scille</i>		Printed Name:		Printed Name:		
				Company: <i>PERC</i>		Company: <i>ARI</i>		Company:		Company:		
				Date & Time: <i>4/15/2019 16:53</i>		Date & Time: <i>4/15/19 1653</i>		Date & Time:		Date & Time:		

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSSDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2019 13:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-79A-041119	19D0215-01	Solid	11-Apr-2019 13:10	15-Apr-2019 16:53
SO-TC-79B-041119	19D0215-02	Solid	11-Apr-2019 13:20	15-Apr-2019 16:53
SO-TC-79C-041119	19D0215-03	Solid	11-Apr-2019 13:30	15-Apr-2019 16:53



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2019 13:56

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received April 15, 2019 under ARI work order 19D0215. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC
COC No(s): _____ NA
Assigned ARI Job No: 19D0215

Project Name: Superlon Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other:
Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES ☒ NO ☐

Were custody papers included with the cooler? YES ☒ NO ☐

Were custody papers properly filled out (ink, signed, etc.) YES ☒ NO ☐

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1653

19.4 1.7

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# 0002565

Cooler Accepted by: [Signature] Date: 4/15/19 Time: 1653

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES ☐ NO ☒

What kind of packing material was used? Bubble Wrap ☒ Wet Ice ☒ Gel Packs ☒ Baggies ☒ Foam Block ☐ Paper ☐ Other: _____

Was sufficient ice used (if appropriate)? NA YES ☐ NO ☒

Were all bottles sealed in individual plastic bags? YES ☐ NO ☒

Did all bottles arrive in good condition (unbroken)? YES ☒ NO ☐

Were all bottle labels complete and legible? YES ☒ NO ☐

Did the number of containers listed on COC match with the number of containers received? YES ☒ NO ☐

Did all bottle labels and tags agree with custody papers? YES ☒ NO ☐

Were all bottles used correct for the requested analyses? YES ☒ NO ☐

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES ☐ NO ☒

Were all VOC vials free of air bubbles? NA YES ☐ NO ☒

Was sufficient amount of sample sent in each bottle? YES ☒ NO ☐

Date VOC Trip Blank was made at ARI: NA YES ☐ NO ☒

Was Sample Split by ARI: NA YES ☐ NO ☒ Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Self Date: 4-15-19 Time: 1712 Labels checked by: Self

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2019 13:56

SO-TC-79A-041119
19D0215-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/11/2019 13:10

Instrument: ICP2 Analyst: TCH

Analyzed: 04/18/2019 13:24

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19D0215-01 A 02

Preparation Batch: BHD0461

Sample Size: 25 mL (wet)

Prepared: 17-Apr-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0521	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
19-Apr-2019 13:56

SO-TC-79A-041119
19D0215-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/11/2019 13:10

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 04/18/2019 07:22

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19D0215-01 A 01

Preparation Batch: BHD0500

Sample Size: 20.03 g (wet)

Prepared: 18-Apr-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.06	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2019 13:56

SO-TC-79B-041119
19D0215-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/11/2019 13:20

Instrument: ICP2 Analyst: TCH

Analyzed: 04/18/2019 13:29

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19D0215-02 A 02

Preparation Batch: BHD0461

Sample Size: 25 mL (wet)

Prepared: 17-Apr-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0468	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0084	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2019 13:56

SO-TC-79B-041119
19D0215-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/11/2019 13:20

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 04/18/2019 07:22

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19D0215-02 A

Preparation Batch: BHD0500

Sample Size: 20.11 g (wet)

Prepared: 18-Apr-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.59	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2019 13:56

SO-TC-79C-041119
19D0215-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/11/2019 13:30

Instrument: ICP2 Analyst: TCH

Analyzed: 04/18/2019 13:33

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19D0215-03 A 02

Preparation Batch: BHD0461

Sample Size: 25 mL (wet)

Prepared: 17-Apr-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0472	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0085	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2019 13:56

SO-TC-79C-041119
19D0215-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/11/2019 13:30

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 04/18/2019 07:22

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19D0215-03 A

Preparation Batch: BHD0500

Sample Size: 20.27 g (wet)

Prepared: 18-Apr-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	12.0	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2019 13:56

TCLP Metals and Metallic Compounds - Quality Control

Batch BHD0461 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHD0461-BLK1)					Prepared: 17-Apr-2019 Analyzed: 18-Apr-2019 13:07				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2019 13:56

Wet Chemistry - Quality Control

Batch BHD0500 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BHD0500-BS1)					Prepared: 18-Apr-2019 Analyzed: 18-Apr-2019 07:22				
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8		
Duplicate (BHD0500-DUP1)					Source: 19D0215-01 Prepared: 18-Apr-2019 Analyzed: 18-Apr-2019 07:22				
pH	9.09	0.01	0.01	pH Units	9.06		0.33	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2019 13:56

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2019 13:56

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

29 April 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19D0326

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., cn=Shelly
Fishel, email=shelly.fishel@arilabs.com
Date: 2019.04.29 11:40:31 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

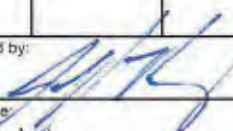
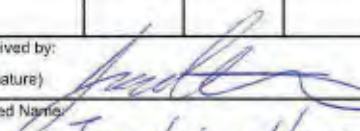
Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 1900326		Turn-around Requested: 3 Day		Date: 4/22/2019		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of					
Client Contact: Kenny King				No. of Coolers: 0 Cooler Temps: 19.2°C					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	pH 9045C				
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-79B2-042219	04/22/19	10:45	Soil	1	✓	✓			
SO-TC-79C2-042219	04/22/19	11:00	Soil	1	✓	✓			
Comments/Special Instructions				Relinquished by: (Signature) 	Received by: (Signature) 		Relinquished by: (Signature)		
				Printed Name: Jeff King		Printed Name: Jacob Walker		Printed Name:	
				Company: PERC		Company: ARI		Company:	
				Date & Time: 4/22/19 3:48		Date & Time: 04/22/19 1548		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-79B2-042219	19D0326-01	Solid	22-Apr-2019 10:45	22-Apr-2019 15:48
SO-TC-79C2-042219	19D0326-02	Solid	22-Apr-2019 11:00	22-Apr-2019 15:48



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:31

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received April 22, 2019 under ARI work order 19D0326. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed outside the recommended holding times. The pH holding time was exceeded upon sample receipt.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 19D0326

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1548

19.2°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: D005206

Cooler Accepted by: JSW Date: 04/22/18 Time: 1548

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: Box

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were sample(s) split by NA YES Date/Time: _____ Equipment: _____ Split by: _____

ARI?

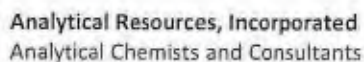
Samples Logged by: JSW Date: 04/22/18 Time: 1623 Labels checked by: JSW

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Page 6 of 17 19D0326 ARISample FINAL 29 Apr 2019 1131



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:31

SO-TC-79B2-042219
19D0326-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/22/2019 10:45

Instrument: ICP2 Analyst: TCH

Analyzed: 04/25/2019 11:55

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19D0326-01 A 02

Preparation Batch: BHD0643

Sample Size: 25 mL (wet)

Dry Weight: 17.39 mL

Prepared: 24-Apr-2019

Final Volume: 25 mL

% Solids: 69.56

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0804	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:31

SO-TC-79B2-042219
19D0326-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/22/2019 10:45

Instrument: Accumet AR60 Analyst: UW

Analyzed: 04/24/2019 14:53

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19D0326-01 A 02

Preparation Batch: BHD0661

Sample Size: 20 g (wet)

Dry Weight: 13.91 g

Prepared: 24-Apr-2019

Final Volume: 20 g

% Solids: 69.56

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.74	pH Units	H



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:31

SO-TC-79B2-042219
19D0326-01 (Solid)

Wet Chemistry

Method: SM 2540 G-97

Sampled: 04/22/2019 10:45

Instrument: BAL2 Analyst: KLE

Analyzed: 04/24/2019 02:54

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19D0326-01

Preparation Batch: BHD0640

Sample Size: 10 g (wet)

Dry Weight: 6.96 g

Prepared: 24-Apr-2019

Final Volume: 10 g

% Solids: 69.56

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	69.56	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:31

SO-TC-79C2-042219
19D0326-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/22/2019 11:00

Instrument: ICP2 Analyst: TCH

Analyzed: 04/25/2019 11:59

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19D0326-02 A 02

Preparation Batch: BHD0643

Sample Size: 25 mL (wet)

Dry Weight: 16.59 mL

Prepared: 24-Apr-2019

Final Volume: 25 mL

% Solids: 66.35

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0902	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0098	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:31

SO-TC-79C2-042219
19D0326-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/22/2019 11:00

Instrument: Accumet AR60 Analyst: UW

Analyzed: 04/24/2019 14:53

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19D0326-02 A 02

Preparation Batch: BHD0661

Sample Size: 20 g (wet)

Dry Weight: 13.27 g

Prepared: 24-Apr-2019

Final Volume: 20 g

% Solids: 66.35

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.45	pH Units	H



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:31

SO-TC-79C2-042219
19D0326-02 (Solid)

Wet Chemistry

Method: SM 2540 G-97

Sampled: 04/22/2019 11:00

Instrument: BAL2 Analyst: KLE

Analyzed: 04/24/2019 02:54

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19D0326-02

Preparation Batch: BHD0640

Sample Size: 10 g (wet)

Dry Weight: 6.64 g

Prepared: 24-Apr-2019

Final Volume: 10 g

% Solids: 66.35

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	66.35	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:31

TCLP Metals and Metallic Compounds - Quality Control

Batch BHD0643 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BHD0643-BLK1)						Prepared: 24-Apr-2019 Analyzed: 25-Apr-2019 11:42					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:31

Wet Chemistry - Quality Control

Batch BHD0640 - No Prep Wet Chem

Instrument: BAL2 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHD0640-BLK1)					Prepared: 24-Apr-2019 Analyzed: 24-Apr-2019 02:54				
Total Solids	ND	0.04	0.04	%					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:31

Wet Chemistry - Quality Control

Batch BHD0661 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BHD0661-BS1)					Prepared: 24-Apr-2019 Analyzed: 24-Apr-2019 14:53				
pH	6.98	0.01	0.01	pH Units	7.00	99.7	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:31

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:31

Notes and Definitions

D	The reported value is from a dilution
H	Hold time violation - Hold time was exceeded.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

29 April 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19D0325

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., cn=Shelly
Fishel, email=shelly.fishel@arilabs.com
Date: 2019.04.29 11:40:11 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

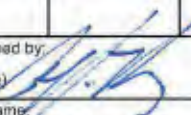
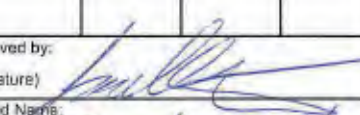
Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19D0325		Turn-around Requested: 3 Day			Date: 4/22/2019		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)						
ARI Client Company: PERC		Phone: 425-346-0921			Page: of								
Client Contact: Kenny King					No. of Coolers: 5 Cooler Temps: 19.2°C								
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-80A-042219	04/22/19	08:30	Soil	1	✓	✓							
SO-TC-80B-042219	04/22/19	08:45	Soil	1	✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) 		Received by: (Signature) 		Relinquished by: (Signature)		Received by: (Signature)		
					Printed Name: Jeff King		Printed Name: Jacob Walker		Printed Name:		Printed Name:		
					Company: PERC		Company: ARZ		Company:		Company:		
					Date & Time: 4/22/19 3:48		Date & Time: 04/22/19 1548		Date & Time:		Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-80A-042219	19D0325-01	Solid	22-Apr-2019 08:30	22-Apr-2019 15:48
SO-TC-80B-042219	19D0325-02	Solid	22-Apr-2019 08:45	22-Apr-2019 15:48



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:26

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received April 22, 2019 under ARI work order 19D0325. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed outside the recommended holding times. The pH holding time was exceeded upon sample receipt.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 1900325

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1548

19.2°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: D005206

Cooler Accepted by: JW

Date: 04/22/19

Time: 1548

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: Box

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Were sample(s) split by NA YES Date/Time: _____ Equipment: _____ Split by: _____

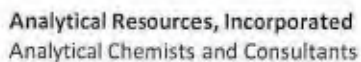
Samples Logged by: JW Date: 04/22/19 Time: 1620 Labels checked by: JW

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: TC Date: 04/22/19 Time: 1548

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:26

SO-TC-80A-042219
19D0325-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/22/2019 08:30

Instrument: ICP2 Analyst: TCH

Analyzed: 04/25/2019 11:46

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19D0325-01 A 02

Preparation Batch: BHD0643

Sample Size: 25 mL (wet)

Dry Weight: 22.82 mL

Prepared: 24-Apr-2019

Final Volume: 25 mL

% Solids: 91.27

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.752	mg/L	
Lead	7439-92-1	5	0.0065	0.100	2.51	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:26

SO-TC-80A-042219
19D0325-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/22/2019 08:30

Instrument: Accumet AR60 Analyst: UW

Analyzed: 04/24/2019 14:53

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19D0325-01 A 02

Preparation Batch: BHD0661

Sample Size: 20 g (wet)

Dry Weight: 18.25 g

Prepared: 24-Apr-2019

Final Volume: 20 g

% Solids: 91.27

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.50	pH Units	H



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:26

SO-TC-80A-042219
19D0325-01 (Solid)

Wet Chemistry

Method: SM 2540 G-97

Sampled: 04/22/2019 08:30

Instrument: BAL2 Analyst: KLE

Analyzed: 04/24/2019 02:54

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19D0325-01

Preparation Batch: BHD0640

Sample Size: 10 g (wet)

Dry Weight: 9.13 g

Prepared: 24-Apr-2019

Final Volume: 10 g

% Solids: 91.27

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	91.27	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:26

SO-TC-80B-042219
19D0325-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/22/2019 08:45

Instrument: ICP2 Analyst: TCH

Analyzed: 04/25/2019 11:51

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19D0325-02 A 02

Preparation Batch: BHD0643

Sample Size: 25 mL (wet)

Dry Weight: 20.39 mL

Prepared: 24-Apr-2019

Final Volume: 25 mL

% Solids: 81.55

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.163	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	1.52	mg/L	



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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
29-Apr-2019 11:26

SO-TC-80B-042219
19D0325-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/22/2019 08:45

Instrument: Accumet AR60 Analyst: UW

Analyzed: 04/24/2019 14:53

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19D0325-02 A 02

Preparation Batch: BHD0661

Sample Size: 20 g (wet)

Dry Weight: 16.31 g

Prepared: 24-Apr-2019

Final Volume: 20 g

% Solids: 81.55

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.01	pH Units	H



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Reported:
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SO-TC-80B-042219
19D0325-02 (Solid)

Wet Chemistry

Method: SM 2540 G-97

Sampled: 04/22/2019 08:45

Instrument: BAL2 Analyst: KLE

Analyzed: 04/24/2019 02:54

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19D0325-02

Preparation Batch: BHD0640

Sample Size: 10 g (wet)

Dry Weight: 8.15 g

Prepared: 24-Apr-2019

Final Volume: 10 g

% Solids: 81.55

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	81.55	%	



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Reported:
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TCLP Metals and Metallic Compounds - Quality Control

Batch BHD0643 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BHD0643-BLK1)						Prepared: 24-Apr-2019 Analyzed: 25-Apr-2019 11:42					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



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Project Manager: Kenny King

Reported:
29-Apr-2019 11:26

Wet Chemistry - Quality Control

Batch BHD0640 - No Prep Wet Chem

Instrument: BAL2 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHD0640-BLK1)					Prepared: 24-Apr-2019 Analyzed: 24-Apr-2019 02:54				
Total Solids	ND	0.04	0.04	%					U



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:26

Wet Chemistry - Quality Control

Batch BHD0661 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BHD0661-BS1)					Prepared: 24-Apr-2019 Analyzed: 24-Apr-2019 14:53				
pH	6.98	0.01	0.01	pH Units	7.00	99.7	99.2-100.8		



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:26

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:26

Notes and Definitions

D	The reported value is from a dilution
H	Hold time violation - Hold time was exceeded.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

29 April 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19D0327

Associated SDG ID(s)
N/A

Shelly Fishel
Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2019.04.29 11:40:51 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19D0327	Turn-around Requested: 3 Day	Date: 4/22/2019
ARI Client Company: PERC	Phone: 425-346-0921	Page: _____ of _____
Client Contact: Kenny King		No. of Coolers: 2 Cooler Temps: 19.2°C



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-81A-042219	04/22/19	09:00	Soil	1	✓	✓							
SO-TC-81B-042219	04/22/19	09:15	Soil	1	✓	✓							
SO-TC-81C-042219	04/22/19	09:30	Soil	1	✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>[Signature]</i>		Received by: (Signature) <i>[Signature]</i>		Relinquished by: (Signature)		Received by: (Signature)		
					Printed Name: Jeff King		Printed Name: Jacob Walker		Printed Name:		Printed Name:		
					Company: PERC		Company: ARI		Company:		Company:		
					Date & Time: 4/22/19 3:48		Date & Time: 04/22/19 1548		Date & Time:		Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-81A-042219	19D0327-01	Solid	22-Apr-2019 09:00	22-Apr-2019 15:48
SO-TC-81B-042219	19D0327-02	Solid	22-Apr-2019 09:15	22-Apr-2019 15:48
SO-TC-81C-042219	19D0327-03	Solid	22-Apr-2019 09:30	22-Apr-2019 15:48



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:33

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received April 22, 2019 under ARI work order 19D0327. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed outside the recommended holding times. The pH holding time was exceeded upon sample receipt.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC
COC No(s): _____ (NA)
Assigned ARI Job No: 1900327

Project Name: Superlan Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1548

19.2°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DC05206

Cooler Accepted by: JSW Date: 04/22/18 Time: 1548

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: Box
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

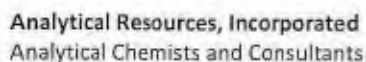
Samples Logged by: JSW Date: 04/22/19 Time: 1625 Labels checked by: JSW

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

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PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:33

SO-TC-81A-042219
19D0327-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/22/2019 09:00

Instrument: ICP2 Analyst: TCH

Analyzed: 04/25/2019 12:03

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19D0327-01 A 02

Preparation Batch: BHD0643

Sample Size: 25 mL (wet)

Dry Weight: 18.66 mL

Prepared: 24-Apr-2019

Final Volume: 25 mL

% Solids: 74.65

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0785	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
29-Apr-2019 11:33

SO-TC-81A-042219
19D0327-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/22/2019 09:00

Instrument: Accumet AR60 Analyst: UW

Analyzed: 04/24/2019 14:53

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19D0327-01 A 02

Preparation Batch: BHD0661

Sample Size: 20 g (wet)

Dry Weight: 14.93 g

Prepared: 24-Apr-2019

Final Volume: 20 g

% Solids: 74.65

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.4	pH Units	H



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Project Manager: Kenny King

Reported:
29-Apr-2019 11:33

SO-TC-81A-042219
19D0327-01 (Solid)

Wet Chemistry

Method: SM 2540 G-97

Sampled: 04/22/2019 09:00

Instrument: BAL2 Analyst: KLE

Analyzed: 04/24/2019 02:54

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19D0327-01

Preparation Batch: BHD0640

Sample Size: 10 g (wet)

Dry Weight: 7.47 g

Prepared: 24-Apr-2019

Final Volume: 10 g

% Solids: 74.65

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	74.65	%	



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Project: Superlon Plastics
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Reported:
29-Apr-2019 11:33

SO-TC-81B-042219
19D0327-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/22/2019 09:15

Instrument: ICP2 Analyst: TCH

Analyzed: 04/25/2019 12:08

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19D0327-02 A 02

Preparation Batch: BHD0643

Sample Size: 25 mL (wet)

Dry Weight: 19.15 mL

Prepared: 24-Apr-2019

Final Volume: 25 mL

% Solids: 76.60

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0535	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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Reported:
29-Apr-2019 11:33

SO-TC-81B-042219
19D0327-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/22/2019 09:15

Instrument: Accumet AR60 Analyst: UW

Analyzed: 04/24/2019 14:53

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19D0327-02 A 02

Preparation Batch: BHD0661

Sample Size: 20 g (wet)

Dry Weight: 15.32 g

Prepared: 24-Apr-2019

Final Volume: 20 g

% Solids: 76.60

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.7	pH Units	H



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SO-TC-81B-042219
19D0327-02 (Solid)

Wet Chemistry

Method: SM 2540 G-97

Sampled: 04/22/2019 09:15

Instrument: BAL2 Analyst: KLE

Analyzed: 04/24/2019 02:54

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19D0327-02

Preparation Batch: BHD0640

Sample Size: 10 g (wet)

Dry Weight: 7.66 g

Prepared: 24-Apr-2019

Final Volume: 10 g

% Solids: 76.60

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	76.60	%	



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Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:33

SO-TC-81C-042219
19D0327-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/22/2019 09:30

Instrument: ICP2 Analyst: TCH

Analyzed: 04/25/2019 12:37

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19D0327-03 A 02

Preparation Batch: BHD0643

Sample Size: 25 mL (wet)

Dry Weight: 19.45 mL

Prepared: 24-Apr-2019

Final Volume: 25 mL

% Solids: 77.80

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0956	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:33

SO-TC-81C-042219
19D0327-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/22/2019 09:30

Instrument: Accumet AR60 Analyst: UW

Analyzed: 04/24/2019 14:53

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19D0327-03 A 02

Preparation Batch: BHD0661

Sample Size: 20 g (wet)

Dry Weight: 15.56 g

Prepared: 24-Apr-2019

Final Volume: 20 g

% Solids: 77.80

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	12.0	pH Units	H



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:33

SO-TC-81C-042219
19D0327-03 (Solid)

Wet Chemistry

Method: SM 2540 G-97

Sampled: 04/22/2019 09:30

Instrument: BAL2 Analyst: KLE

Analyzed: 04/24/2019 02:54

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19D0327-03

Preparation Batch: BHD0640

Sample Size: 10 g (wet)

Dry Weight: 7.78 g

Prepared: 24-Apr-2019

Final Volume: 10 g

% Solids: 77.80

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	77.80	%	



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

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Reported:
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TCLP Metals and Metallic Compounds - Quality Control

Batch BHD0643 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHD0643-BLK1)									
Prepared: 24-Apr-2019 Analyzed: 25-Apr-2019 11:42									
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:33

Wet Chemistry - Quality Control

Batch BHD0640 - No Prep Wet Chem

Instrument: BAL2 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHD0640-BLK1)					Prepared: 24-Apr-2019 Analyzed: 24-Apr-2019 02:54				
Total Solids	ND	0.04	0.04	%					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:33

Wet Chemistry - Quality Control

Batch BHD0661 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BHD0661-BS1)					Prepared: 24-Apr-2019 Analyzed: 24-Apr-2019 14:53				
pH	6.98	0.01	0.01	pH Units	7.00	99.7	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2019 11:33

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



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Project: Superlon Plastics
Project Number: SLON
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Reported:
29-Apr-2019 11:33

Notes and Definitions

D	The reported value is from a dilution
H	Hold time violation - Hold time was exceeded.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Fw: TWO DATA PACKAGES FOR YOUR APPROVAL

From Jeff King <jking@perc-nw.com>
Date Mon 11/11/2024 2:00 PM
To jking@percnw.com <jking@percnw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

From: David Bosch <DBosch@tpchd.org>
Sent: Tuesday, May 21, 2019 2:55 PM
To: jking perc-nw.com <jking@perc-nw.com>
Subject: RE: TWO DATA PACKAGES FOR YOUR APPROVAL

Jeff,

The Health Department has reviewed these four soil batches provided in the two data sets dated May 21, 2019. The soils associated with these characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>
Sent: Tuesday, May 21, 2019 2:13 PM
To: David Bosch <DBosch@tpchd.org>
Subject: RE: TWO DATA PACKAGES FOR YOUR APPROVAL

David:

Attached are the final reports. Fortunately there were no changes from the drafts.

Jeff

From: David Bosch [<mailto:DBosch@tpchd.org>]
Sent: Tuesday, May 21, 2019 7:43 AM
To: Jeffrey D King <jking@perc-nw.com>
Subject: RE: TWO DATA PACKAGES FOR YOUR APPROVAL

Jeff,

I prefer to approve the finalized analytical reports rather than the 'Drafts'.

If you have different thoughts on this, please let me know.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Tuesday, May 21, 2019 7:20 AM

To: David Bosch <DBosch@tpchd.org>

Cc: Steve Duggan <sduggan@perc-nw.com>; 'Kenny King' <kking@perc-nw.com>; grimstedb@uspioneer.com

Subject: TWO DATA PACKAGES FOR YOUR APPROVAL

David:

Good morning. Attached are two data packages for your approval. Each sample represents approximated 22 CY of soil. The following table summarizes the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-84A-051419	0.0945	0.26	8.42
SO-TC-85A-051419	0.0384	0.0073	8.93
SO-TC-85B-051419	0.0726	ND	8.99
SO-TC-85C-051419	0.0498	ND	8.82

Thanks as usual.

Jeff

Jeffrey D. King, P.G.

Principal/President

Pacific Environmental & Redevelopment Corporation

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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contents of the information contained in this transmission is strictly prohibited. If you have received this transmission in error, please notify the sender by return e-mail and delete the message. Thank you



Analytical Resources, Incorporated
Analytical Chemists and Consultants

21 May 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19E0197

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., cn=Shelly
Fishel, email=shelly.fishel@arilabs.com
Date: 2019.05.21 11:48:11 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19E0197		Turn-around Requested: 3 Day		Date: 5/14/2019		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of					
Client Contact: Kenny King				No. of Coolers: 0 Cooler Temps: 22.3°C					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb only	pH 9045C				
Sample ID	Date	Time	Matrix			No. Containers			
SO-TC-84A-051419	05/14/19	13:00	Soil	1	✓	✓			
Comments/Special Instructions		Relinquished by:		Received by:		Relinquished by:		Received by:	
		(Signature) <i>Kenny King</i>		(Signature) <i>Jacob Walter</i>		(Signature)		(Signature)	
		Printed Name: Kenny King		Printed Name: Jacob Walter		Printed Name:		Printed Name:	
		Company: PERC		Company: ARI		Company:		Company:	
Date & Time: 5/14/19 16:56		Date & Time: 05/14/19 16:56		Date & Time:		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-84A-051419	19E0197-01	Solid	14-May-2019 13:00	14-May-2019 16:56



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:44

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received May 14, 2019 under ARI work order 19E0197. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 19E0197

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES (NO)

Were custody papers included with the cooler? YES (YES) NO

Were custody papers properly filled out (ink, signed, etc.) YES (YES) NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1656 22.3°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JSW Date: 05/14/19 Time: 1656

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)

What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs (Baggies) Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES (NO)

How were bottles sealed in plastic bags? Individually (Grouped) Not

Did all bottles arrive in good condition (unbroken)? YES (YES) NO

Were all bottle labels complete and legible? YES (YES) NO

Did the number of containers listed on COC match with the number of containers received? YES (YES) NO

Did all bottle labels and tags agree with custody papers? YES (YES) NO

Were all bottles used correct for the requested analyses? YES (YES) NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES (NO)

Were all VOC vials free of air bubbles? NA YES (YES) NO

Was sufficient amount of sample sent in each bottle? YES (YES) NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JSW Date: 05/14/19 Time: 1712 Labels checked by: JSW

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 1960197

Cooler#: _____ Temperature(°C): 22.3°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
about 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: JAN

Date: 05/14/19 Time: 1656

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:44

SO-TC-84A-051419
19E0197-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/14/2019 13:00

Instrument: ICP2 Analyst: TCH

Analyzed: 05/20/2019 13:54

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19E0197-01 A 02

Preparation Batch: BHE0454

Sample Size: 25 mL (wet)

Prepared: 17-May-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0945	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.260	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:44

SO-TC-84A-051419
19E0197-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/14/2019 13:00

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 05/16/2019 07:45

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19E0197-01 A

Preparation Batch: BHE0416

Sample Size: 20 g (wet)

Prepared: 16-May-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.42	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:44

TCLP Metals and Metallic Compounds - Quality Control

Batch BHE0454 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHE0454-BLK1)					Prepared: 17-May-2019 Analyzed: 20-May-2019 13:33				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:44

Wet Chemistry - Quality Control

Batch BHE0416 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BHE0416-BS1)									
Prepared: 16-May-2019 Analyzed: 16-May-2019 07:45									
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:44

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:44

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

21 May 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19E0196

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington,
l=Tukwila, o=Analytical
Resources, Inc., cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2019.05.21 11:47:50 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: <i>1950196</i>	Turn-around Requested: 3 Day
--	-------------------------------------

Date: 5/14/2019

ARI Client Company: PERC	Phone: 425-346-0921
------------------------------------	----------------------------

Page: of

Client Contact: Kenny King

No. of Coolers: <i>4</i>	Cooler Temps: <i>22.3°C</i>
--------------------------	-----------------------------

Client Project Name: Superlon Plastics

Analysis Requested										Notes/Comments
--------------------	--	--	--	--	--	--	--	--	--	----------------

Client Project #: SLON	Samplers: King
-------------------------------	-----------------------

Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb only	pH 9045C							
SO-TC-85A-051419	05/14/19	14:00	Soil	1	✓	✓							
SO-TC-85B-051419	05/14/19	14:10	Soil	1	✓	✓							
SO-TC-85C-051419	05/14/19	14:20	Soil	1	✓	✓							

Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>	Received by: (Signature) <i>Jacob Walte</i>	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: <i>Kenny King</i>	Printed Name: <i>Jacob Walte</i>	Printed Name:	Printed Name:
	Company: <i>PERC</i>	Company: <i>ARI</i>	Company:	Company:
	Date & Time: <i>5/14/19 16:56</i>	Date & Time: <i>05/14/19 16:56</i>	Date & Time:	Date & Time:



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-85A-051419	19E0196-01	Solid	14-May-2019 14:00	14-May-2019 16:56
SO-TC-85B-051419	19E0196-02	Solid	14-May-2019 14:10	14-May-2019 16:56
SO-TC-85C-051419	19E0196-03	Solid	14-May-2019 14:20	14-May-2019 16:56



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:43

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received May 14, 2019 under ARI work order 19E0196. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

The Duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 19E0196

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES (NO)
Were custody papers included with the cooler? YES (NO)
Were custody papers properly filled out (ink, signed, etc.) YES (NO)
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1656 22.3°C
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO 5206

Cooler Accepted by: Jaw Date: 05/14/19 Time: 1656

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)
What kind of packing material was used? ... Bubble Wrap (Wet Ice Gel Packs) Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES (NO)
How were bottles sealed in plastic bags? Individually (Grouped) Not
Did all bottles arrive in good condition (unbroken)? (YES) NO
Were all bottle labels complete and legible? (YES) NO
Did the number of containers listed on COC match with the number of containers received? (YES) NO
Did all bottle labels and tags agree with custody papers? (YES) NO
Were all bottles used correct for the requested analyses? (YES) NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... (NA) YES NO
Were all VOC vials free of air bubbles? (NA) YES NO
Was sufficient amount of sample sent in each bottle? (YES) NO
Date VOC Trip Blank was made at ARI... (NA)
Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Jaw Date: 05/14/19 Time: 1710 Labels checked by: Jaw

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 1960196

Cooler#: _____ Temperature(°C): 22.3°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: SAI

Date: 05/14/19 Time: 1656

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:43

SO-TC-85A-051419
19E0196-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/14/2019 14:00

Instrument: ICP2 Analyst: TCH

Analyzed: 05/20/2019 13:41

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19E0196-01 A 02

Preparation Batch: BHE0454

Sample Size: 25 mL (wet)

Prepared: 17-May-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0384	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0073	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:43

SO-TC-85A-051419
19E0196-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/14/2019 14:00

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 05/16/2019 07:45

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19E0196-01 A

Preparation Batch: BHE0416

Sample Size: 20 g (wet)

Prepared: 16-May-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.93	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:43

SO-TC-85B-051419
19E0196-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/14/2019 14:10

Instrument: ICP2 Analyst: TCH

Analyzed: 05/20/2019 13:45

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19E0196-02 A 02

Preparation Batch: BHE0454

Sample Size: 25 mL (wet)

Prepared: 17-May-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0726	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:43

SO-TC-85B-051419
19E0196-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/14/2019 14:10

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 05/16/2019 07:45

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19E0196-02 A

Preparation Batch: BHE0416

Sample Size: 20 g (wet)

Prepared: 16-May-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.99	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:43

SO-TC-85C-051419
19E0196-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/14/2019 14:20

Instrument: ICP2 Analyst: TCH

Analyzed: 05/20/2019 13:50

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19E0196-03 A 02

Preparation Batch: BHE0454

Sample Size: 25 mL (wet)

Prepared: 17-May-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0498	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:43

SO-TC-85C-051419
19E0196-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/14/2019 14:20

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 05/16/2019 07:45

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19E0196-03 A

Preparation Batch: BHE0416

Sample Size: 20 g (wet)

Prepared: 16-May-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.82	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:43

TCLP Metals and Metallic Compounds - Quality Control

Batch BHE0454 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHE0454-BLK1)					Prepared: 17-May-2019 Analyzed: 20-May-2019 13:33				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:43

Wet Chemistry - Quality Control

Batch BHE0416 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BHE0416-BS1)					Prepared: 16-May-2019 Analyzed: 16-May-2019 07:45					
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BHE0416-DUP1)					Source: 19E0196-01 Prepared: 16-May-2019 Analyzed: 16-May-2019 07:45					
pH	8.97	0.01	0.01	pH Units	8.93		0.45	20		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:43

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2019 11:43

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: One data package for your approval

From David Bosch <DBosch@tpchd.org>

Date Thu 6/6/2019 7:59 AM

To jking perc-nw.com <jking@perc-nw.com>

Cc sduggan perc-nw.com <sduggan@perc-nw.com>; kking perc-nw.com <kking@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

Jeff,

The Tacoma-Pierce County Health Department has reviewed the three data sets submitted in the June 4, 2019 analytical report. The soils associated with these characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Tuesday, June 4, 2019 1:52 PM

To: David Bosch <DBosch@tpchd.org>

Cc: Steve Duggan <sduggan@perc-nw.com>; 'Kenny King' <kking@perc-nw.com>; grimstedb@uspioneer.com

Subject: One data package for your approval

David: Attached is one data package for your approval. Each sample represents approximately 22 CY. Please let me know if you have any questions.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-87A-052819	0.134	ND	8.82
SO-TC-87B-052819	0.0347	0.009	8.64
SO-TC-87C-052819	0.0555	0.0486	8.68

Thank you

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive
Snohomish, WA 98290
United States of America
425-238-2212
jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

04 June 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19E0388

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 1960388		Turn-around Requested: 3 Day		Date: 5/28/2019				Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of							
Client Contact: Kenny King		No. of Coolers: 2		Cooler Temps: 21.9°C							
Client Project Name: Superlon Plastics				Analysis Requested						Notes/Comments	
Client Project #: SLON		Samplers: Duggan		TCLP 1311 As/Pb Only		pH 9045C					
Sample ID	Date	Time	Matrix	No. Containers							
SO-TC-87A-052819	05/28/19	09:00	Soil	1	✓	✓					
SO-TC-87B-052819	05/28/19	09:15	Soil	1	✓	✓					
SO-TC-87C-052819	05/28/19	09:30	Soil	1	✓	✓					
Comments/Special Instructions		Relinquished by:		Received by:		Relinquished by:		Received by:			
		(Signature) Kenny King		(Signature) Jacob Wark		(Signature)		(Signature)			
		Printed Name: Kenny King		Printed Name: Jacob Wark		Printed Name:		Printed Name:			
		Company: PERC		Company: ANZ		Company:		Company:			
		Date & Time: 5/28/19 17:14		Date & Time: 05/28/19 1714		Date & Time:		Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Jun-2019 12:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-87A-052819	19E0388-01	Solid	28-May-2019 09:00	28-May-2019 17:14
SO-TC-87B-052819	19E0388-02	Solid	28-May-2019 09:15	28-May-2019 17:14
SO-TC-87C-052819	19E0388-03	Solid	28-May-2019 09:30	28-May-2019 17:14



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Jun-2019 12:45

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received May 28, 2019 under ARI work order 19E0388. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

The Duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PerC

Project Name: Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 19E0388

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES (NO)

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.)? YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1714 21.9°

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by Jaw Date: 05/28/19 Time: 1714

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES (NO)

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) (NA) YES NO

Were all VOC vials free of air bubbles? (NA) YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI (NA)

Were the sample(s) split by ARI? (NA) YES Date/Time _____ Equipment: _____ Split by: _____

Samples Logged by: Jaw Date: 05/28/19 Time: 1746 Labels checked by: Jaw

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Jun-2019 12:45

SO-TC-87A-052819
19E0388-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/28/2019 09:00

Instrument: ICP2 Analyst: TCH

Analyzed: 05/31/2019 09:03

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19E0388-01 A 02

Preparation Batch: BHE0745

Sample Size: 25 mL (wet)

Prepared: 30-May-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.134	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Jun-2019 12:45

SO-TC-87A-052819
19E0388-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/28/2019 09:00

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 05/30/2019 23:50

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19E0388-01 A

Preparation Batch: BHE0780

Sample Size: 20.15 g (wet)

Prepared: 30-May-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.82	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Jun-2019 12:45

SO-TC-87B-052819
19E0388-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/28/2019 09:15

Instrument: ICP2 Analyst: MCB

Analyzed: 06/03/2019 15:47

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19E0388-02 A 02

Preparation Batch: BHE0745

Sample Size: 25 mL (wet)

Prepared: 30-May-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0347	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0090	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Jun-2019 12:45

SO-TC-87B-052819
19E0388-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/28/2019 09:15

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 05/30/2019 23:50

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19E0388-02 A

Preparation Batch: BHE0780

Sample Size: 20.4 g (wet)

Prepared: 30-May-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.64	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Jun-2019 12:45

SO-TC-87C-052819
19E0388-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/28/2019 09:30

Instrument: ICP2 Analyst: MCB

Analyzed: 06/03/2019 15:51

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19E0388-03 A 02

Preparation Batch: BHE0745

Sample Size: 25 mL (wet)

Prepared: 30-May-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0555	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0486	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Jun-2019 12:45

SO-TC-87C-052819
19E0388-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/28/2019 09:30

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 05/30/2019 23:50

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19E0388-03 A

Preparation Batch: BHE0780

Sample Size: 20.02 g (wet)

Prepared: 30-May-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.68	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Jun-2019 12:45

TCLP Metals and Metallic Compounds - Quality Control

Batch BHE0745 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BHE0745-BLK1)					Prepared: 30-May-2019 Analyzed: 31-May-2019 08:29					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Jun-2019 12:45

Wet Chemistry - Quality Control

Batch BHE0780 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BHE0780-BS1)										
Prepared: 30-May-2019						Analyzed: 30-May-2019 23:50				
pH	7.02	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BHE0780-DUP1)										
Source: 19E0388-01						Prepared: 30-May-2019				
						Analyzed: 30-May-2019 23:50				
pH	8.80	0.01	0.01	pH Units	8.82			0.23	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Jun-2019 12:45

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Jun-2019 12:45

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: TWO DATA PACKAGES FOR YOUR REVIEW AND APPROVAL.

From David Bosch <DBosch@tpchd.org>

Date Tue 6/18/2019 7:46 AM

To jking perc-nw.com <jking@perc-nw.com>

Cc sduggan perc-nw.com <sduggan@perc-nw.com>; kking perc-nw.com <kking@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

Jeff,

The Tacoma-Pierce County Health Department has reviewed the two data sets submitted dated June 12 and June 17, 2019. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Monday, June 17, 2019 2:56 PM

To: David Bosch <DBosch@tpchd.org>

Cc: Steve Duggan <sduggan@perc-nw.com>; 'Kenny King' <kking@perc-nw.com>; grimstedb@uspioneer.com

Subject: TWO DATA PACKAGES FOR YOUR REVIEW AND APPROVAL.

David:

Attached are two data packages for your review and approval. Each sample represents approximately 22 CY. Please let me know if you have any questions.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-88A-060519	0.159	ND	6.78
SO-TC-88B-060519	0.229	0.0072	7.54
SO-TC-88C-060519	0.183	ND	8.41
SO-TC-90A-061219	0.0716	0.0395	8.74
SO-TC-90B-061219	0.0665	0.0158	8.62
SO-TC-90C-061219	0.0677	0.0845	8.5

Thank you

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

12 June 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19F0043

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

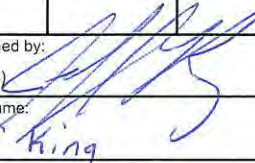
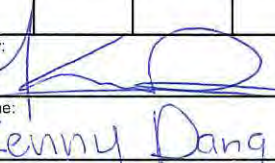
Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19F0043		Turn-around Requested: 5 Day			Date: 6/5/2019		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 425-346-0921			Page: of									
Client Contact: Kenny King					No. of Coolers: Cooler Temps:									
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments		
Client Project #: SLON		Samplers: Duggan			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-88A-060519	06/05/19	11:00	Soil	1	✓	✓								
SO-TC-88B-060519	06/05/19	11:15	Soil	1	✓	✓								
SO-TC-88C-060519	06/05/19	11:30	Soil	1	✓	✓								
Comments/Special Instructions		Relinquished by: (Signature) 			Received by: (Signature) 			Relinquished by: (Signature)			Received by: (Signature)			
		Printed Name: Jeff King			Printed Name: Kenny Dang			Printed Name:			Printed Name:			
		Company: PERC			Company: ARI			Company:			Company:			
		Date & Time: 6/5/19 1:41			Date & Time: 6/5/19 1340			Date & Time:			Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Jun-2019 12:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-88A-060519	19F0043-01	Solid	05-Jun-2019 11:00	05-Jun-2019 13:40
SO-TC-88B-060519	19F0043-02	Solid	05-Jun-2019 11:15	05-Jun-2019 13:40
SO-TC-88C-060519	19F0043-03	Solid	05-Jun-2019 11:30	05-Jun-2019 13:40



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Jun-2019 12:35

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received June 5, 2019 under ARI work order 19F0043. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

The Duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD and Matrix Spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: SLON Superlan Plastics

COC No(s): _____ (NA)

Delivered by Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 19F0043

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES ☐ NO ☒

Were custody papers included with the cooler? _____

YES ☒ NO ☐

Were custody papers properly filled out (ink, signed, etc.) _____

YES ☒ NO ☐

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1340

2456

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 2565

Cooler Accepted by: KID

Date 6/5/19

Time: 1340

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES ☐ NO ☒

What kind of packing material was used? _____ Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: Ziploc

Was sufficient ice used (if appropriate)? _____

NA ☐ YES ☒ NO ☐

How were bottles sealed in plastic bags? _____

Individually ☐ Grouped ☒ NO ☐

Did all bottles arrive in good condition (unbroken)? _____

YES ☒ NO ☐

Were all bottle labels complete and legible? _____

YES ☒ NO ☐

Did the number of containers listed on COC match with the number of containers received? _____

YES ☒ NO ☐

Did all bottle labels and tags agree with custody papers? _____

YES ☒ NO ☐

Were all bottles used correct for the requested analyses? _____

YES ☒ NO ☐

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) _____

NA ☒ YES ☐ NO ☐

Were all VOC vials free of air bubbles? _____

NA ☒ YES ☐ NO ☐

Was sufficient amount of sample sent in each bottle? _____

YES ☒ NO ☐

Date VOC Trip Blank was made at ARI _____

NA ☒

Were the sample(s) split by ARI? ☒ YES

Date/Time: _____

Equipment _____

Split by: _____

Samples Logged by: JBW

Date: 06/05/19

Time: 1404

Labels checked by: JBW

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By _____

Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Jun-2019 12:35

SO-TC-88A-060519
19F0043-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/05/2019 11:00

Instrument: ICP2 Analyst: TCH

Analyzed: 06/10/2019 15:46

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19F0043-01 A 02

Preparation Batch: BHF0145

Sample Size: 25 mL (wet)

Prepared: 07-Jun-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.159	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Jun-2019 12:35

SO-TC-88A-060519
19F0043-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/05/2019 11:00

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 06/12/2019 10:46

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19F0043-01 A

Preparation Batch: BHF0258

Sample Size: 20.1 g (wet)

Prepared: 12-Jun-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.78	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Jun-2019 12:35

SO-TC-88B-060519
19F0043-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/05/2019 11:15

Instrument: ICP2 Analyst: TCH

Analyzed: 06/10/2019 15:33

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19F0043-02 A 02

Preparation Batch: BHF0145

Sample Size: 25 mL (wet)

Prepared: 07-Jun-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.229	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0072	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Jun-2019 12:35

SO-TC-88B-060519
19F0043-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/05/2019 11:15

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 06/12/2019 10:46

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19F0043-02 A

Preparation Batch: BHF0258

Sample Size: 20.15 g (wet)

Prepared: 12-Jun-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.54	pH Units	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Jun-2019 12:35

SO-TC-88C-060519
19F0043-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/05/2019 11:30

Instrument: ICP2 Analyst: TCH

Analyzed: 06/10/2019 15:38

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19F0043-03 A 02

Preparation Batch: BHF0145

Sample Size: 25 mL (wet)

Prepared: 07-Jun-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.183	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Jun-2019 12:35

SO-TC-88C-060519
19F0043-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/05/2019 11:30

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 06/12/2019 10:46

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19F0043-03 A

Preparation Batch: BHF0258

Sample Size: 20.11 g (wet)

Prepared: 12-Jun-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.41	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Jun-2019 12:35

TCLP Metals and Metallic Compounds - Quality Control

Batch BHF0145 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BHF0145-BLK1)						Prepared: 07-Jun-2019 Analyzed: 10-Jun-2019 15:12					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BHF0145-DUP1)						Source: 19F0043-01 Prepared: 07-Jun-2019 Analyzed: 10-Jun-2019 15:42					
Arsenic	0.159	0.0140	0.250	mg/L		0.159			0.09	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BHF0145-MS1)						Source: 19F0043-01 Prepared: 07-Jun-2019 Analyzed: 10-Jun-2019 15:50					
Arsenic	4.63	0.0140	0.250	mg/L	4.00	0.159	112	75-125			
Lead	4.18	0.0065	0.100	mg/L	4.00	ND	104	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Jun-2019 12:35

Wet Chemistry - Quality Control

Batch BHF0258 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BHF0258-BS1)										
						Prepared: 12-Jun-2019 Analyzed: 12-Jun-2019 10:46				
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BHF0258-DUP1)										
		Source: 19F0043-01				Prepared: 12-Jun-2019 Analyzed: 12-Jun-2019 10:46				
pH	6.81	0.01	0.01	pH Units	6.78			0.44	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Jun-2019 12:35

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Jun-2019 12:35

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

17 June 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19F0167

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19F0167		Turn-around Requested: 2 Day			Date: 6/12/2019			 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)						
ARI Client Company: PERC		Phone: 425-346-0921			Page: of									
Client Contact: Kenny King					No. of Coolers: 2 Cooler Temps: 76.5°C									
Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: Duggan			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-90A-061219	06/12/19	10:00	Soil	1	✓	✓								
SO-TC-90B-061219	06/12/19	10:15	Soil	1	✓	✓								
SO-TC-90C-061219	06/12/19	10:30	Soil	1	✓	✓								
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Jacob Walte</i>			Relinquished by: (Signature)			Received by: (Signature)			
		Printed Name: Kenny King			Printed Name: Jacob Walte			Printed Name:			Printed Name:			
		Company: PERC			Company: ARI			Company:			Company:			
		Date & Time: 6/12/19 11:20			Date & Time: 06/12/19 1120			Date & Time:			Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2019 13:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-90A-061219	19F0167-01	Solid	12-Jun-2019 10:00	12-Jun-2019 11:20
SO-TC-90B-061219	19F0167-02	Solid	12-Jun-2019 10:15	12-Jun-2019 11:20
SO-TC-90C-061219	19F0167-03	Solid	12-Jun-2019 10:30	12-Jun-2019 11:20



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2019 13:09

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received June 12, 2019 under ARI work order 19F0167. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



WORK ORDER

19F0167

Client: PERC-Pacific Environmental and Redevelopment
Project: Superlon Plastics

Project Manager: Shelly Fishel
Project Number: SLON

Report To:

PERC-Pacific Environmental and Redevelopment Corp
Kenny King
8424 E Meadow Lake Drive
Snohomish, WA 98290
Phone: (425) 346-0921
Fax:

Invoice To:

PERC-Pacific Environmental and Redevelopment Corp
Jeffrey King
8424 E Meadow Lake Drive
Snohomish, WA 98290
Phone: (425) 238-2212
Fax:

Date Due: 14-Jun-2019 18:00 (2 day TAT)

Received By: Jacob Walter

Date Received: 12-Jun-2019 11:20

Logged In By: Erin I. Salle

Date Logged In: 12-Jun-2019 11:24

Samples Received at 26.8°C

Intact, properly signed and dated custody seals attached to outside of cooler(s) ... No
Custody papers properly filled out (in, signed, analyses requested, etc) ... Yes
Was sufficient ice used (if appropriate) ... No
All bottles arrived in good condition (unbroken) ... Yes
Number of containers listed on COC match number received ... Yes
Correct bottles used for the requested analyses ... Yes
Analyses/bottles require preservation (attach preservation sheet excluding VOC) ... No
Sample split at ARI ... No

Custody papers included with the cooler ... Yes
Was a temperature blank included in the cooler ... No
All bottles sealed in individual plastic bags ... No
All bottle labels complete and legible ... Yes
Bottle labels and tags agree with COC ... Yes
All VOC vials free of air bubbles ... No
Sufficient amount of sample sent in each bottle ... Yes

Analysis	Due	TAT	Expires	Comments
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WORK ORDER

19F0167

Client: PERC-Pacific Environmental and Redevelopment
Project: Superlon Plastics

Project Manager: Shelly Fishel
Project Number: SLON

Analysis	Due	TAT	Expires	Comments
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19F0167-01 SO-TC-90A-061219 [Solid] Sampled 12-Jun-2019 10:00
(GMT-08:00) Pacific Time (US & Canada)

A = Glass WM, Clear, 8 oz

TCLP 6010C - Pb	14-Jun-2019 15:00	2	09-Dec-2019 10:00	
TCLP 6010C - As	14-Jun-2019 15:00	2	09-Dec-2019 10:00	
TCLP 1311	14-Jun-2019 15:00	2	10-Jul-2019 10:00	
pH, EPA 9045D, Solid	14-Jun-2019 15:00	2	26-Jun-2019 10:00	
Filter 0.7 micron (TCLP)	14-Jun-2019 15:00	2	13-Jun-2019 11:20	

19F0167-02 SO-TC-90B-061219 [Solid] Sampled 12-Jun-2019 10:15
(GMT-08:00) Pacific Time (US & Canada)

A = Glass WM, Clear, 8 oz

TCLP 6010C - Pb	14-Jun-2019 15:00	2	09-Dec-2019 10:15	
TCLP 6010C - As	14-Jun-2019 15:00	2	09-Dec-2019 10:15	
TCLP 1311	14-Jun-2019 15:00	2	10-Jul-2019 10:15	
pH, EPA 9045D, Solid	14-Jun-2019 15:00	2	26-Jun-2019 10:15	
Filter 0.7 micron (TCLP)	14-Jun-2019 15:00	2	13-Jun-2019 11:20	

19F0167-03 SO-TC-90C-061219 [Solid] Sampled 12-Jun-2019 10:30
(GMT-08:00) Pacific Time (US & Canada)

A = Glass WM, Clear, 8 oz

TCLP 6010C - Pb	14-Jun-2019 15:00	2	09-Dec-2019 10:30	
TCLP 6010C - As	14-Jun-2019 15:00	2	09-Dec-2019 10:30	
pH, EPA 9045D, Solid	14-Jun-2019 15:00	2	26-Jun-2019 10:30	
Filter 0.7 micron (TCLP)	14-Jun-2019 15:00	2	13-Jun-2019 11:20	
TCLP 1311	14-Jun-2019 15:00	2	10-Jul-2019 10:30	

Reviewed By

Date

Page 2 of 2



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superken Plast-25

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 19F0167

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES YES NO

Were custody papers properly filled out (ink, signed, etc.) YES YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1120 26.8°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JSW Date: 06/12/19 Time: 1120

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES YES NO

Were all bottle labels complete and legible? YES YES NO

Did the number of containers listed on COC match with the number of containers received? YES YES NO

Did all bottle labels and tags agree with custody papers? YES YES NO

Were all bottles used correct for the requested analyses? YES YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? NA YES YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) spill by ARI? NA YES Date/Time: Equipment Split by:

Samples Logged by: JSW Date: 6/12/19 Time: Labels checked by:

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By Date:



Cooler Temperature Compliance Form

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2019 13:09

SO-TC-90A-061219
19F0167-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/12/2019 10:00

Instrument: ICP2 Analyst: TCH

Analyzed: 06/14/2019 09:53

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19F0167-01 A 02

Preparation Batch: BHF0296

Sample Size: 25 mL (wet)

Prepared: 13-Jun-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0716	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0395	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2019 13:09

SO-TC-90A-061219
19F0167-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/12/2019 10:00

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 06/14/2019 12:49

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19F0167-01 A

Preparation Batch: BHF0336

Sample Size: 20.32 g (wet)

Prepared: 14-Jun-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.74	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2019 13:09

SO-TC-90B-061219
19F0167-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/12/2019 10:15

Instrument: ICP2 Analyst: TCH

Analyzed: 06/14/2019 09:57

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19F0167-02 A 02

Preparation Batch: BHF0296

Sample Size: 25 mL (wet)

Prepared: 13-Jun-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0665	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0158	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2019 13:09

SO-TC-90B-061219
19F0167-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/12/2019 10:15

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 06/14/2019 12:49

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19F0167-02 A

Preparation Batch: BHF0336

Sample Size: 20.96 g (wet)

Prepared: 14-Jun-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.62	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2019 13:09

SO-TC-90C-061219
19F0167-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/12/2019 10:30

Instrument: ICP2 Analyst: TCH

Analyzed: 06/14/2019 10:01

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19F0167-03 A 02

Preparation Batch: BHF0296

Sample Size: 25 mL (wet)

Prepared: 13-Jun-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0677	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0845	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2019 13:09

SO-TC-90C-061219
19F0167-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/12/2019 10:30

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 06/14/2019 12:49

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19F0167-03 A

Preparation Batch: BHF0336

Sample Size: 20.37 g (wet)

Prepared: 14-Jun-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.50	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2019 13:09

TCLP Metals and Metallic Compounds - Quality Control

Batch BHF0296 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BHF0296-BLK1)					Prepared: 13-Jun-2019 Analyzed: 14-Jun-2019 09:49					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2019 13:09

Wet Chemistry - Quality Control

Batch BHF0336 - EPA 9045D

Instrument: Accumet AR60 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BHF0336-BS1)									
Prepared: 14-Jun-2019 Analyzed: 14-Jun-2019 12:49									
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2019 13:09

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



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8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2019 13:09

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Two data packages for your review and approval

From David Bosch <DBosch@tpchd.org>

Date Mon 7/8/2019 8:05 AM

To jking perc-nw.com <jking@perc-nw.com>

Cc kking perc-nw.com <kking@perc-nw.com>; sduggan perc-nw.com <sduggan@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

Jeff,

The Tacoma-Pierce County Health Department has reviewed the two data packages dated July 2, 2019. The soils associated with these characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Tuesday, July 2, 2019 2:22 PM

To: David Bosch <DBosch@tpchd.org>

Cc: kking@perc-nw.com; Steve Duggan <sduggan@perc-nw.com>; grimstedb@uspioneer.com

Subject: Two data packages for your review and approval

David:

Attached are two data packages for your review and approval. Each sample represents approximately 22 CY of soil. The table below summarizes the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-89B-062519	0.844	0.144	7.1
SO-TC-91A-062019	0.0483	0.0376	8.4
SO-TC-91B-062019	0.0352	0.0203	8.63
SO-TC-91C-062019	0.0586	0.0368	8.58

Thanks

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

02 July 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19F0367

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 19F0367		Turn-around Requested: 5 Day			Date: 6/25/2019		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC			Phone: 425-346-0921		Page: of									
Client Contact: Kenny King					No. of Coolers: 4 Cooler Temps: 23.3°C									
Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-89B-062519	06/25/19	13:30	Soil	1	✓	✓								
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Jacob Walter</i>			Relinquished by: (Signature)			Received by: (Signature)			
		Printed Name: Kenny King			Printed Name: Jacob Walter			Printed Name:			Printed Name:			
		Company: PERC			Company: ARI			Company:			Company:			
		Date & Time: 6/25/19 16:33			Date & Time: 06/25/19 1633			Date & Time:			Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-89B-062519	19F0367-01	Solid	25-Jun-2019 13:30	25-Jun-2019 16:33



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:52

Work Order Case Narrative

Sample receipt

Sample(s) as listed on the preceding page were received June 25, 2019 under ARI work order 19F0367. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



WORK ORDER

19F0367

Client: PERC-Pacific Environmental and Redevelopment
Project: Superlon Plastics

Project Manager: Shelly Fishel
Project Number: SLON

Report To:

PERC-Pacific Environmental and Redevelopment Corp
Kenny King
8424 E Meadow Lake Drive
Snohomish, WA 98290
Phone: (425) 346-0921
Fax:

Invoice To:

PERC-Pacific Environmental and Redevelopment Corp
Jeffrey King
8424 E Meadow Lake Drive
Snohomish, WA 98290
Phone : (425) 238-2212
Fax:

Date Due: 03-Jul-2019 18:00 (5 day TAT)

Received By: Jacob Walter

Date Received: 25-Jun-2019 16:33

Logged In By: Kenny Dang

Date Logged In: 25-Jun-2019 16:54

Samples Received at: 23.3°C

Intact, properly signed and dated custody seals attached to outside of cooler(s). No
Custody papers properly filled out (in, signed, analyses requested, etc). Yes
Was sufficient ice used (if appropriate). No
All bottles arrived in good condition (unbroken). Yes
Number of containers listed on COC match number received Yes
Correct bottles used for the requested analyses Yes
Analyses/bottles require preservation (attach preservation sheet excluding VOC) No
Sample split at ARI No

Custody papers included with the cooler Yes
Was a temperature blank included in the cooler No
All bottles sealed in individual plastic bags. Yes
All bottle labels complete and legible Yes
Bottle labels and tags agree with COC Yes
All VOC vials free of air bubbles No
Sufficient amount of sample sent in each bottle Yes

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

19F0367-01 SO-TC-89B-062519 [Solid] Sampled 25-Jun-2019 13:30
(GMT-08:00) Pacific Time (US & Canada)

A = Glass WM, Clear, 8 oz

TCLP 6010C - Pb	03-Jul-2019 15:00	5	22-Dec-2019 13:30	
TCLP 6010C - As	03-Jul-2019 15:00	5	22-Dec-2019 13:30	
TCLP 1311	03-Jul-2019 15:00	5	23-Jul-2019 13:30	
pH, EPA 9045D, Solid	03-Jul-2019 15:00	5	09-Jul-2019 13:30	

Reviewed By

Date

Page 1 of 1



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): NA
Assigned ARI Job No: 19F0367

Project Name: Superlan Plastics
Delivered by Fed-Ex UPS Courier Hand Delivered Other: NA
Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 23.3°C
Time 1633

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5 Job

Cooler Accepted by: JA Date 06/25/19 Time: 1633

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by

Samples Logged by: KD Date: 6/25/19 Time: 1655 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: JD Date: 06/25/18 Time: 1637

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:52

SO-TC-89B-062519
19F0367-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/25/2019 13:30

Instrument: ICP2 Analyst: TCH

Analyzed: 06/28/2019 14:52

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19F0367-01 A 04

Preparation Batch: BHF0726

Sample Size: 25 mL (wet)

Prepared: 28-Jun-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.844	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.144	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:52

SO-TC-89B-062519
19F0367-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/25/2019 13:30

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 06/28/2019 16:25

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19F0367-01 A

Preparation Batch: BHF0750

Sample Size: 20.1 g (wet)

Prepared: 28-Jun-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.10	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:52

TCLP Metals and Metallic Compounds - Quality Control

Batch BHF0726 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BHF0726-BLK1)						Prepared: 28-Jun-2019 Analyzed: 28-Jun-2019 14:44					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:52

Wet Chemistry - Quality Control

Batch BHF0750 - EPA 9045D

Instrument: Accumet AR60 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BHF0750-BS1)									
Prepared: 28-Jun-2019 Analyzed: 28-Jun-2019 16:25									
pH	6.99	0.01	0.01	pH Units	7.00	99.9	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:52

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:52

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

02 July 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19F0352

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19F0352		Turn-around Requested: 5 Day		Date: 6/24/2019		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 425-346-0921		Page: of									
Client Contact: Kenny King				No. of Coolers: 1				Cooler Temps: 22.8°C					
Client Project Name: Superlon Plastics				Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: Duggan		1311 TCLP As/Pb Only		pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-91A-062019	06/20/19	09:00	Soil	1	✓	✓							
SO-TC-91B-062019	06/20/19	09:15	Soil	1	✓	✓							
SO-TC-91C-062019	06/20/19	09:30	Soil	1	✓	✓							
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Valle</i>		Relinquished by: (Signature)		Received by: (Signature)			
				Printed Name: Kenny King		Printed Name: Jacob Valle		Printed Name:		Printed Name:			
				Company: PERC		Company: ARI		Company:		Company:			
				Date & Time: 6/24/19 16:41		Date & Time: 06/24/19 1641		Date & Time:		Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSSDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-91A-062019	19F0352-01	Solid	20-Jun-2019 09:00	24-Jun-2019 16:41
SO-TC-91B-062019	19F0352-02	Solid	20-Jun-2019 09:15	24-Jun-2019 16:41
SO-TC-91C-062019	19F0352-03	Solid	20-Jun-2019 09:30	24-Jun-2019 16:41



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:47

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received June 24, 2019 under ARI work order 19F0352. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

The Duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD and Matrix Spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERL

Project Name Superlan Plastics

COC No(s): NA

Delivered by Fed-Ex UPS Courier Hand Delivered Other _____

Assigned ARI Job No. 19F0352

Tracking No. NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1641

22.5°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JSW Date: 06/24/19 Time: 1641

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Reggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JSW Date: 6/25/19 Time: 0844 Labels checked by: JSW

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 19F0352

Cooler#: _____ Temperature(°C): 22.8°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: [Signature] Date: 06/29/19 Time: 1641

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:47

SO-TC-91A-062019
19F0352-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/20/2019 09:00

Instrument: ICP2 Analyst: TCH

Analyzed: 06/26/2019 17:09

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19F0352-01 A 02

Preparation Batch: BHF0641

Sample Size: 25 mL (wet)

Prepared: 26-Jun-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0483	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0376	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:47

SO-TC-91A-062019
19F0352-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/20/2019 09:00

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 06/28/2019 16:25

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19F0352-01 A

Preparation Batch: BHF0750

Sample Size: 20.43 g (wet)

Prepared: 28-Jun-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.40	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:47

SO-TC-91B-062019
19F0352-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/20/2019 09:15

Instrument: ICP2 Analyst: TCH

Analyzed: 06/28/2019 10:39

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19F0352-02 A 02

Preparation Batch: BHF0641

Sample Size: 25 mL (wet)

Prepared: 26-Jun-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0352	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0203	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:47

SO-TC-91B-062019
19F0352-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/20/2019 09:15

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 06/28/2019 16:25

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19F0352-02 A

Preparation Batch: BHF0750

Sample Size: 20.09 g (wet)

Prepared: 28-Jun-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.63	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:47

SO-TC-91C-062019
19F0352-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/20/2019 09:30

Instrument: ICP2 Analyst: TCH

Analyzed: 06/28/2019 10:43

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19F0352-03 A 02

Preparation Batch: BHF0641

Sample Size: 25 mL (wet)

Prepared: 26-Jun-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0586	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0368	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:47

SO-TC-91C-062019
19F0352-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/20/2019 09:30

Instrument: Accumet AR60 Analyst: WCW

Analyzed: 06/28/2019 16:25

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19F0352-03 A

Preparation Batch: BHF0750

Sample Size: 20.42 g (wet)

Prepared: 28-Jun-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.58	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:47

TCLP Metals and Metallic Compounds - Quality Control

Batch BHF0641 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BHF0641-BLK1)						Prepared: 26-Jun-2019 Analyzed: 26-Jun-2019 16:48					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BHF0641-DUP1)						Source: 19F0352-01 Prepared: 26-Jun-2019 Analyzed: 26-Jun-2019 17:05					
Arsenic	0.0460	0.0140	0.250	mg/L		0.0483			4.84	20	J
Lead	0.0399	0.0065	0.100	mg/L		0.0376			6.15	20	J
Matrix Spike (BHF0641-MS1)						Source: 19F0352-01 Prepared: 26-Jun-2019 Analyzed: 26-Jun-2019 17:13					
Arsenic	3.98	0.0140	0.250	mg/L	4.00	0.0483	98.2	75-125			
Lead	3.84	0.0065	0.100	mg/L	4.00	0.0376	94.9	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:47

Wet Chemistry - Quality Control

Batch BHF0750 - EPA 9045D

Instrument: Accumet AR60 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BHF0750-BS1)											
						Prepared: 28-Jun-2019 Analyzed: 28-Jun-2019 16:25					
pH	6.99	0.01	0.01	pH Units	7.00		99.9	99.2-100.8			
Duplicate (BHF0750-DUP1)											
		Source: 19F0352-01				Prepared: 28-Jun-2019 Analyzed: 28-Jun-2019 16:25					
pH	8.44	0.01	0.01	pH Units		8.40			0.48	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:47

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Jul-2019 12:47

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: One Data Package from your review and approval

From David Bosch <DBosch@tpchd.org>

Date Wed 7/10/2019 7:11 AM

To jking perc-nw.com <jking@perc-nw.com>

Cc kking perc-nw.com <kking@perc-nw.com>; sduggan perc-nw.com <sduggan@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

Jeff,

The Tacoma-Pierce County Health Department has reviewed the data sets dated July 9, 2019. The soils associated with these characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Tuesday, July 9, 2019 3:20 PM

To: David Bosch <DBosch@tpchd.org>

Cc: kking@perc-nw.com; Steve Duggan <sduggan@perc-nw.com>; grimstedb@uspioneer.com

Subject: One Data Package from your review and approval

David:

Just got this in so I wanted to send it your way for approval. Each of the samples represent approximately 22 CY. The data are summarized below.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-92A-062719	0.0701	0.932	8.24
SO-TC-92B-062719	0.0355	0.013	8.62
SO-TC-92C-062719	0.0535	0.102	8.63

Thanks as always

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President
Pacific Environmental & Redevelopment Corporation (PERC)
8424 E Meadow Lake Drive
Snohomish, WA 98290
United States of America
425-238-2212
jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

09 July 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19G0015

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 196-0015		Turn-around Requested: 3 Day		Date: 7/1/2019		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 425-346-0921		Page: of									
Client Contact: Kenny King		No. of Coolers: 2		Cooler Temps: 22.2°C									
Client Project Name: Superlon Plastics				Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: Duggan											
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C							
SO-TC-92A-062719	06/27/19	11:00	Soil	1	✓	✓							
SO-TC-92B-062719	06/27/19	11:10	Soil	1	✓	✓							
SO-TC-92C-062719	06/27/19	11:20	Soil	1	✓	✓							
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walter</i>		Relinquished by: (Signature)				Received by: (Signature)	
				Printed Name: Kenny King		Printed Name: Jacob Walter		Printed Name:				Printed Name:	
				Company: PERC 16:43		Company: ARI		Company:				Company:	
				Date & Time: 7/1/2019		Date & Time: 07/01/19 1643		Date & Time:				Date & Time:	

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2019 14:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-92A-062719	19G0015-01	Solid	27-Jun-2019 11:00	01-Jul-2019 16:43
SO-TC-92B-062719	19G0015-02	Solid	27-Jun-2019 11:10	01-Jul-2019 16:43
SO-TC-92C-062719	19G0015-03	Solid	27-Jun-2019 11:20	01-Jul-2019 16:43



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2019 14:23

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received July 1, 2019 under ARI work order 19G0015. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recovery was within control limits.

The Duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD and Matrix Spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name Superlan Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand-Delivered Other _____

Assigned ARI Job No: 196-0015

Tracking No. _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1643

22.2°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JSW Date: 07/01/19 Time 1643

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped No

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) spill by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JSW Date: 07/01/19 Time 1719 Labels checked by: JSW

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 1960015

Cooler#: _____ Temperature(°C): 22.2°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
about 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: JS

Date: 07/01/19

Time: 1643

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2019 14:23

SO-TC-92A-062719
19G0015-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/27/2019 11:00

Instrument: ICP2 Analyst: TCH

Analyzed: 07/05/2019 18:04

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19G0015-01 A 02

Preparation Batch: BHG0091

Sample Size: 25 mL (wet)

Prepared: 03-Jul-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0701	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.932	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
09-Jul-2019 14:23

SO-TC-92A-062719
19G0015-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/27/2019 11:00

Instrument: Accumet AR60 Analyst: YK

Analyzed: 07/08/2019 16:34

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19G0015-01 A

Preparation Batch: BHG0175

Sample Size: 20.4 g (wet)

Prepared: 08-Jul-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.24	pH Units	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2019 14:23

SO-TC-92B-062719
19G0015-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/27/2019 11:10

Instrument: ICP2 Analyst: TCH

Analyzed: 07/08/2019 11:32

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19G0015-02 A 02

Preparation Batch: BHG0091

Sample Size: 25 mL (wet)

Prepared: 03-Jul-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0355	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0130	mg/L	J



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Reported:
09-Jul-2019 14:23

SO-TC-92B-062719
19G0015-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/27/2019 11:10

Instrument: Accumet AR60 Analyst: YK

Analyzed: 07/08/2019 16:34

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19G0015-02 A

Preparation Batch: BHG0175

Sample Size: 21.59 g (wet)

Prepared: 08-Jul-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	8.62	pH Units	



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Reported:
09-Jul-2019 14:23

SO-TC-92C-062719
19G0015-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/27/2019 11:20

Instrument: ICP2 Analyst: TCH

Analyzed: 07/05/2019 17:55

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19G0015-03 A 02

Preparation Batch: BHG0091

Sample Size: 25 mL (wet)

Prepared: 03-Jul-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0535	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.102	mg/L	



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Reported:
09-Jul-2019 14:23

SO-TC-92C-062719
19G0015-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/27/2019 11:20

Instrument: Accumet AR60 Analyst: YK

Analyzed: 07/08/2019 16:34

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19G0015-03 A

Preparation Batch: BHG0175

Sample Size: 21.16 g (wet)

Prepared: 08-Jul-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	8.63	pH Units	



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Reported:
09-Jul-2019 14:23

TCLP Metals and Metallic Compounds - Quality Control

Batch BHG0091 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BHG0091-BLK1)						Prepared: 03-Jul-2019 Analyzed: 05-Jul-2019 17:39					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BHG0091-DUP1)						Source: 19G0015-01 Prepared: 03-Jul-2019 Analyzed: 05-Jul-2019 18:00					
Arsenic	0.0630	0.0140	0.250	mg/L		0.0701			10.60	20	J
Lead	0.917	0.0065	0.100	mg/L		0.932			1.65	20	
Matrix Spike (BHG0091-MS1)						Source: 19G0015-01 Prepared: 03-Jul-2019 Analyzed: 05-Jul-2019 18:08					
Arsenic	4.42	0.0140	0.250	mg/L	4.00	0.0701	109	75-125			
Lead	5.07	0.0065	0.100	mg/L	4.00	0.932	103	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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Reported:
09-Jul-2019 14:23

Wet Chemistry - Quality Control

Batch BHG0175 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: YK

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BHG0175-BS1)										
						Prepared: 08-Jul-2019 Analyzed: 08-Jul-2019 16:34				
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BHG0175-DUP1)										
		Source: 19G0015-01		Prepared: 08-Jul-2019 Analyzed: 08-Jul-2019 16:34						
pH	8.38	0.01	0.01	pH Units	8.24			1.68	20	



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Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



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Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Outlook

FW: A data package for your consideration and approval

From jking perc-nw.com <jking@perc-nw.com>

Date Tue 7/16/2019 2:43 PM

To sduggan perc-nw.com <sduggan@perc-nw.com>; kking perc-nw.com <kking@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

 2 attachments (42 KB)
image002.gif; image003.jpg;

Approved

From: Keith Johnston [mailto:KJohnston@tpchd.org]
Sent: Tuesday, July 16, 2019 2:21 PM
To: Jeffrey D King <jking@perc-nw.com>
Cc: David Bosch <DBosch@tpchd.org>
Subject: RE: A data package for your consideration and approval

Hi Jeff,

This soil is acceptable for disposal under WDA 2324.

Thanks,

Keith Johnston, RS

Environmental Health Supervisor
Waste Management/Solid Waste
(253) 798-6561 o • kjohnston@tpchd.org
(253) 405-8604 c • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

[Waste Disposal Authorization](#)

From: Jeffrey D King <jking@perc-nw.com>
Sent: Tuesday, July 16, 2019 1:38 PM
To: Keith Johnston <KJohnston@tpchd.org>
Subject: FW: A data package for your consideration and approval

Keith:

I sent the email below to David earlier but see he is not available. Can you help us?

The project is the Superlon Plastics site in Tacoma and we want to send this soil (approximately 22 CY) to LRI.

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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From: Jeffrey D King [<mailto:jking@perc-nw.com>]

Sent: Tuesday, July 16, 2019 12:05 PM

To: David Bosch <DBosch@tpchd.org>

Cc: Steve Duggan (sduggan@perc-nw.com) <sduggan@perc-nw.com>; grimstedb@uspioneer.com; kking@perc-nw.com

Subject: A data package for your consideration and approval

David:

Attached is a data sheet for your consideration. The following summarizes the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-93A-070919	0.0462	0.0079	9.11
SO-TC-93B-070919	0.129	0.0075	9.35
SO-TC-93C-070919	0.179	ND	9.36

Thank you

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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10/22/24, 8:45 AM

Mail - kking perc-nw.com - Outlook

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

16 July 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19G0115

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 1960115		Turn-around Requested: 3 Day		Date: 7/9/2019		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of					
Client Contact: Kenny King				No. of Coolers: 1 Cooler Temps: 26.4°C					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: Duggan		TCLP 1311 As/Pb Only		pH 9045C			
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-93A-070919	07/09/19	14:00	Soil	1	✓	✓			
SO-TC-93B-070919	07/09/19	14:15	Soil	1	✓	✓			
SO-TC-93C-070919	07/09/19	14:30	Soil	1	✓	✓			
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walter</i>		Relinquished by: (Signature)		Received by: (Signature)	
		Printed Name: Kenny King		Printed Name: Jacob Walter		Printed Name:		Printed Name:	
		Company: PERC		Company: ARI		Company:		Company:	
		Date & Time: 7/9/2019 16:22		Date & Time: 07/09/19 1622		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2019 11:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-93A-070919	19G0115-01	Solid	09-Jul-2019 14:00	09-Jul-2019 16:22
SO-TC-93B-070919	19G0115-02	Solid	09-Jul-2019 14:15	09-Jul-2019 16:22
SO-TC-93C-070919	19G0115-03	Solid	09-Jul-2019 14:30	09-Jul-2019 16:22



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2019 11:16

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received July 9, 2019 under ARI work order 19G0115. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

The duplicate RPD were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): 1960115 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 1960115

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 1622

26.4°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JSW Date: 07/09/19 Time: 1622

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: JSW Date: 07/09/19 Time: 1658 Labels checked by: JSW

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
Additional Notes, Discrepancies, & Resolutions:			
By: Date			



Cooler Temperature Compliance Form

Completed by: JSu Date: 07/09/17 Time: 1622

Cooler Temperature Compliance Form

Version 000
3/3/09



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16-Jul-2019 11:16

SO-TC-93A-070919
19G0115-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/09/2019 14:00

Instrument: ICP2 Analyst: TCH

Analyzed: 07/12/2019 11:13

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19G0115-01 A 03

Preparation Batch: BHG0257

Sample Size: 25 mL (wet)

Prepared: 11-Jul-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0462	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0079	mg/L	J



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16-Jul-2019 11:16

SO-TC-93A-070919
19G0115-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/09/2019 14:00

Instrument: Accumet AR60 Analyst: BF

Analyzed: 07/15/2019 18:06

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19G0115-01 A

Preparation Batch: BHG0352

Sample Size: 20.04 g (wet)

Prepared: 15-Jul-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.11	pH Units	



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Reported:
16-Jul-2019 11:16

SO-TC-93B-070919
19G0115-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/09/2019 14:15

Instrument: ICP2 Analyst: TCH

Analyzed: 07/12/2019 11:17

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19G0115-02 A 03

Preparation Batch: BHG0257

Sample Size: 25 mL (wet)

Prepared: 11-Jul-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.129	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0075	mg/L	J



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SO-TC-93B-070919
19G0115-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/09/2019 14:15

Instrument: Accumet AR60 Analyst: BF

Analyzed: 07/15/2019 18:06

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19G0115-02 A

Preparation Batch: BHG0352

Sample Size: 20.13 g (wet)

Prepared: 15-Jul-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.35	pH Units	



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Reported:
16-Jul-2019 11:16

SO-TC-93C-070919
19G0115-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/09/2019 14:30

Instrument: ICP2 Analyst: TCH

Analyzed: 07/12/2019 11:21

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19G0115-03 A 03

Preparation Batch: BHG0257

Sample Size: 25 mL (wet)

Prepared: 11-Jul-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.179	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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Reported:
16-Jul-2019 11:16

SO-TC-93C-070919
19G0115-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/09/2019 14:30

Instrument: Accumet AR60 Analyst: BF

Analyzed: 07/15/2019 18:06

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19G0115-03 A

Preparation Batch: BHG0352

Sample Size: 20.37 g (wet)

Prepared: 15-Jul-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.36	pH Units	



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Project Number: SLON
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Reported:
16-Jul-2019 11:16

TCLP Metals and Metallic Compounds - Quality Control

Batch BHG0257 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BHG0257-BLK1)					Prepared: 11-Jul-2019 Analyzed: 12-Jul-2019 09:30					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2019 11:16

Wet Chemistry - Quality Control

Batch BHG0352 - EPA 9045D

Instrument: Accumet AR60 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BHG0352-BS1)										
						Prepared: 15-Jul-2019 Analyzed: 15-Jul-2019 18:06				
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BHG0352-DUP1)										
		Source: 19G0115-01				Prepared: 15-Jul-2019 Analyzed: 15-Jul-2019 18:06				
pH	9.14	0.01	0.01	pH Units	9.11			0.33	20	



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2019 11:16

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jul-2019 11:16

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Data package for your review and approval

From David Bosch <DBosch@tpchd.org>

Date Mon 7/29/2019 9:09 AM

To jking perc-nw.com <jking@perc-nw.com>

Cc kking perc-nw.com <kking@perc-nw.com>; sduggan perc-nw.com <sduggan@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

Jeff,

The Tacoma-Pierce County Health Department has reviewed the data set dated July 26, 2019. The soils associated with these characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Monday, July 29, 2019 7:18 AM

To: David Bosch <DBosch@tpchd.org>

Cc: kking@perc-nw.com; Steve Duggan <sduggan@perc-nw.com>; grimstedb@uspioneer.com

Subject: Data package for your review and approval

David:

Attached is a data package for your review and approval. Each sample represents approximately 22 CY of soil. The following table summarizes the data:

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-94A-072219	0.159	ND	8.95
SO-TC-94B-072219	0.229	0.0082	9.27
SO-TC-94C-072219	0.176	ND	9.15

Thanks as usual.

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

26 July 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19G0283

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 1960283		Turn-around Requested: 3 Day			Date: 7/22/2019			 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 425-346-0921			Page: of										
Client Contact: Kenny King					No. of Coolers: 4 Cooler Temps: 30.4°C										
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments			
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C									
Sample ID	Date	Time	Matrix	No. Containers											
SO-TC-94A-072219	07/22/19	13:00	Soil	1	✓	✓									
SO-TC-94B-072219	07/22/19	13:15	Soil	1	✓	✓									
SO-TC-94C-072219	07/22/19	13:30	Soil	1	✓	✓									
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Jacob Walter</i>			Relinquished by: (Signature)			Received by: (Signature)	
					Printed Name: <i>Kenny King</i>			Printed Name: <i>Jacob Walter</i>			Printed Name:			Printed Name:	
					Company: <i>PERC</i>			Company: <i>ARI</i>			Company:			Company:	
					Date & Time: <i>7/22/19 16:44</i>			Date & Time: <i>07/22/19 1644</i>			Date & Time:			Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jul-2019 15:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-94A-072219	19G0283-01	Solid	22-Jul-2019 13:00	22-Jul-2019 16:44
SO-TC-94B-072219	19G0283-02	Solid	22-Jul-2019 13:15	22-Jul-2019 16:44
SO-TC-94C-072219	19G0283-03	Solid	22-Jul-2019 13:30	22-Jul-2019 16:44



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jul-2019 15:42

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received July 22, 2019 under ARI work order 19G0283. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The MS percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlan Plastics

COC No(s): 1960283 NA

Delivered by Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No 1960283

Tracking No. NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1644 30.4°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by JJW Date: 07/22/19 Time: 1644

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Were the sample(s) split by ARI? NA YES Date/Time: NA Equipment: NA Split by: NA

Samples Logged by: JJW Date: 07/22/19 Time: 1648 Labels checked by: JJW

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: NA Date: NA



Cooler Temperature Compliance Form

ARI Work Order: 1960283

Cooler#: _____ Temperature(°C): 30.4°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: JDW Date: 02/22/19 Time: 1644

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jul-2019 15:42

SO-TC-94A-072219
19G0283-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/22/2019 13:00

Instrument: Accumet AR60 Analyst: BF

Analyzed: 07/23/2019 15:49

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19G0283-01 A

Preparation Batch: BHG0543

Sample Size: 20.03 g (wet)

Prepared: 23-Jul-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.95	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jul-2019 15:42

SO-TC-94A-072219
19G0283-01RE1 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/22/2019 13:00

Instrument: ICP2 Analyst: TCH

Analyzed: 07/26/2019 11:58

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19G0283-01RE1 A 03

Preparation Batch: BHG0609

Sample Size: 25 mL (wet)

Prepared: 25-Jul-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.159	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jul-2019 15:42

SO-TC-94B-072219
19G0283-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/22/2019 13:15

Instrument: Accumet AR60 Analyst: BF

Analyzed: 07/23/2019 15:49

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19G0283-02 A

Preparation Batch: BHG0543

Sample Size: 20.2 g (wet)

Prepared: 23-Jul-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.27	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jul-2019 15:42

SO-TC-94B-072219
19G0283-02RE1 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/22/2019 13:15

Instrument: ICP2 Analyst: TCH

Analyzed: 07/26/2019 12:02

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19G0283-02RE1 A 03

Preparation Batch: BHG0609

Sample Size: 25 mL (wet)

Prepared: 25-Jul-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.229	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0082	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jul-2019 15:42

SO-TC-94C-072219
19G0283-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/22/2019 13:30

Instrument: Accumet AR60 Analyst: BF

Analyzed: 07/23/2019 15:49

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19G0283-03 A

Preparation Batch: BHG0543

Sample Size: 20.89 g (wet)

Prepared: 23-Jul-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.15	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jul-2019 15:42

SO-TC-94C-072219
19G0283-03RE1 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/22/2019 13:30

Instrument: ICP2 Analyst: TCH

Analyzed: 07/26/2019 12:06

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19G0283-03RE1 A 03

Preparation Batch: BHG0609

Sample Size: 25 mL (wet)

Prepared: 25-Jul-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.176	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jul-2019 15:42

TCLP Metals and Metallic Compounds - Quality Control

Batch BHG0561 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHG0561-BLK1)					Prepared: 24-Jul-2019 Analyzed: 25-Jul-2019 11:31				
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jul-2019 15:42

TCLP Metals and Metallic Compounds - Quality Control

Batch BHG0609 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BHG0609-BLK1)					Prepared: 25-Jul-2019 Analyzed: 26-Jul-2019 11:54					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jul-2019 15:42

Wet Chemistry - Quality Control

Batch BHG0543 - EPA 9045D

Instrument: Accumet AR60 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BHG0543-BS1)										
						Prepared: 23-Jul-2019 Analyzed: 23-Jul-2019 15:49				
pH	6.99	0.01	0.01	pH Units	7.00	99.9	99.2-100.8			
Duplicate (BHG0543-DUP1)										
		Source: 19G0283-01		Prepared: 23-Jul-2019 Analyzed: 23-Jul-2019 15:49						
pH	9.09	0.01	0.01	pH Units	8.95			1.55	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jul-2019 15:42

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jul-2019 15:42

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Outlook

RE: FOUR DATA PACKAGES FOR YOUR APPROVAL

From Keith Johnston <KJohnston@tpchd.org>

Date Wed 8/14/2019 12:33 PM

To jking perc-nw.com <jking@perc-nw.com>

Cc kking perc-nw.com <kking@perc-nw.com>; sduggan perc-nw.com <sduggan@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

After reviewing the results these soils are appropriate for disposal under WDA#2324.

Keith Johnston, RS

Environmental Health Supervisor
Waste Management/Solid Waste

(253) 798-6561 o • kjohnston@tpchd.org

(253) 405-8604 c • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

[Waste Disposal Authorization](#)

From: Jeffrey D King <jking@perc-nw.com>

Sent: Wednesday, August 14, 2019 7:53 AM

To: Keith Johnston <KJohnston@tpchd.org>

Cc: kking@perc-nw.com; Steve Duggan <sduggan@perc-nw.com>; grimstedb@uspioneer.com

Subject: FW: FOUR DATA PACKAGES FOR YOUR APPROVAL

Keith:

I sent this to David this am but noticed that he is gone until Monday. Could you take a look at this package and let me know what you think?

Thanks

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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From: Jeffrey D King [<mailto:jking@perc-nw.com>]
Sent: Wednesday, August 14, 2019 7:01 AM
To: David Bosch <DBosch@tpchd.org>
Subject: FOUR DATA PACKAGES FOR YOUR APPROVAL

David:

Attached are four data packages for your review and approval. Each sample represents approximately 22 cy of soil. The following table summarizes the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-95A-072919	0.165	ND	9.00
SO-TC-95B-072919	0.134	0.0081	8.98
SO-TC-95C-072919	0.125	0.166	8.94
SO-TC-96A-080519	0.0839	0.0508	8.58
SO-TC-96B-080519	0.0427	0.0068	8.83
SO-TC-96C-080519	0.0594	0.0077	8.6
SO-TC-97A-080519	0.0434	0.181	8.21
SO-TC-97B-080719	0.806	0.248	7.66

Thank you as always.

Jeff

Jeffrey D. King, P.G./L.G.
Principal Geologist/President
Pacific Environmental & Redevelopment Corporation (PERC)
8424 E Meadow Lake Drive
Snohomish, WA 98290
United States of America
425-238-2212
jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

07 August 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19G0378

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 196-0378		Turn-around Requested: 5 Day			Date: 7/29/2019				Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC		Phone: 425-346-0921			Page: of									
Client Contact: Kenny King					No. of Coolers: 4 Cooler Temps: 29.5°C									
Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: Duggan			TCLP 1311 As/Pb only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-95A-072919	07/29/19	09:00	Soil	1	✓	✓								
SO-TC-95B-072919	07/29/19	09:15	Soil	1	✓	✓								
SO-TC-95C-072919	07/29/19	09:30	Soil	1	✓	✓								
Comments/Special Instructions		Relinquished by:		Received by:		Relinquished by:		Received by:						
		(Signature) <i>Kenny King</i>		(Signature) <i>Jacob Walte</i>		(Signature)		(Signature)						
		Printed Name: Kenny King		Printed Name: Jacob Walte		Printed Name:		Printed Name:						
		Company: PERC		Company: ARZ		Company:		Company:						
		Date & Time: 7/29/19 16:28		Date & Time: 07/29/19 1628		Date & Time:		Date & Time:						

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Aug-2019 10:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-95A-072919	19G0378-01	Solid	29-Jul-2019 09:00	29-Jul-2019 16:28
SO-TC-95B-072919	19G0378-02	Solid	29-Jul-2019 09:15	29-Jul-2019 16:28
SO-TC-95C-072919	19G0378-03	Solid	29-Jul-2019 09:30	29-Jul-2019 16:28



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Aug-2019 10:47

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received July 29, 2019 under ARI work order 19G0378. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

The Duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The Duplicate RPD and Matrix Spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): NA
Assigned ARI Job No 1960378

Project Name: Superior Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA
Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 29.8°C

Time 1628
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID# DOO 5206

Cooler Accepted by JAN Date: 07/29/19 Time: 1628
Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs NA Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI NA
Were the sample(s) spill by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: JAN Date: 07/29/19 Time: 1632 Labels checked by: JAN

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 1960378

Cooler#: _____ Temperature(°C): 29.8°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: SSW Date: 07/28/19 Time: 1628

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Aug-2019 10:47

SO-TC-95A-072919
19G0378-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/29/2019 09:00

Instrument: ICP2 Analyst: TCH

Analyzed: 08/05/2019 13:16

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19G0378-01 A 04

Preparation Batch: BHH0050

Sample Size: 25 mL (wet)

Prepared: 02-Aug-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.165	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Aug-2019 10:47

SO-TC-95A-072919
19G0378-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/29/2019 09:00

Instrument: Accumet AR60 Analyst: BF

Analyzed: 08/06/2019 09:36

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19G0378-01 A

Preparation Batch: BHH0127

Sample Size: 20 g (wet)

Prepared: 05-Aug-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.00	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Aug-2019 10:47

SO-TC-95B-072919
19G0378-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/29/2019 09:15

Instrument: ICP2 Analyst: TCH

Analyzed: 08/05/2019 13:03

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19G0378-02 A 04

Preparation Batch: BHH0050

Sample Size: 25 mL (wet)

Prepared: 02-Aug-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.134	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0081	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Aug-2019 10:47

SO-TC-95B-072919
19G0378-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/29/2019 09:15

Instrument: Accumet AR60 Analyst: BF

Analyzed: 08/06/2019 09:36

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19G0378-02 A

Preparation Batch: BHH0127

Sample Size: 20.05 g (wet)

Prepared: 05-Aug-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.98	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Aug-2019 10:47

SO-TC-95C-072919
19G0378-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/29/2019 09:30

Instrument: ICP2 Analyst: TCH

Analyzed: 08/05/2019 13:08

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19G0378-03 A 04

Preparation Batch: BHH0050

Sample Size: 25 mL (wet)

Prepared: 02-Aug-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.125	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.166	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Aug-2019 10:47

SO-TC-95C-072919
19G0378-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/29/2019 09:30

Instrument: Accumet AR60 Analyst: BF

Analyzed: 08/06/2019 09:36

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19G0378-03 A

Preparation Batch: BHH0127

Sample Size: 20.53 g (wet)

Prepared: 05-Aug-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.94	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Aug-2019 10:47

TCLP Metals and Metallic Compounds - Quality Control

Batch BHH0050 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BHH0050-BLK1)						Prepared: 02-Aug-2019 Analyzed: 05-Aug-2019 12:55					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BHH0050-DUP1)						Source: 19G0378-01 Prepared: 02-Aug-2019 Analyzed: 05-Aug-2019 13:12					
Arsenic	0.167	0.0140	0.250	mg/L		0.165			0.89	20	J
Lead	0.0087	0.0065	0.100	mg/L		ND					J
Matrix Spike (BHH0050-MS1)						Source: 19G0378-01 Prepared: 02-Aug-2019 Analyzed: 05-Aug-2019 13:20					
Arsenic	4.64	0.0140	0.250	mg/L	4.00	0.165	112	75-125			
Lead	4.13	0.0065	0.100	mg/L	4.00	ND	103	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Aug-2019 10:47

Wet Chemistry - Quality Control

Batch BHH0127 - EPA 9045D

Instrument: Accumet AR60 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BHH0127-BS1)						Prepared: 05-Aug-2019 Analyzed: 06-Aug-2019 09:36					
pH	6.95	0.01	0.01	pH Units	7.00		99.3	99.2-100.8			
Duplicate (BHH0127-DUP1)						Source: 19G0378-01 Prepared: 05-Aug-2019 Analyzed: 06-Aug-2019 09:36					
pH	9.10	0.01	0.01	pH Units		9.00			1.10	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Aug-2019 10:47

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Aug-2019 10:47

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

13 August 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19H0062

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: <u>19H0062</u>		Turn-around Requested: 5 Day			Date: 8/5/2019			 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC			Phone: 425-346-0921			Page: of							
Client Contact: Kenny King						No. of Coolers: <u>0</u> Cooler Temps: <u>24.5°C</u>							
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-96A-080519	08/05/19	10:15	Soil	1	✓	✓							
SO-TC-96B-080519	08/05/19	10:30	Soil	1	✓	✓							
SO-TC-96C-080519	08/05/19	10:45	Soil	1	✓	✓							
Comments/Special Instructions		Relinquished by:			Received by:			Relinquished by:			Received by:		
		(Signature) <u>Kenny King</u>			(Signature) <u>Jacob Walter</u>			(Signature)			(Signature)		
		Printed Name: <u>Kenny King</u>			Printed Name: <u>Jacob Walter</u>			Printed Name:			Printed Name:		
		Company: <u>PERC</u>			Company: <u>ARI</u>			Company:			Company:		
		Date & Time: <u>8/5/19 16:40</u>			Date & Time: <u>08/05/19 1640</u>			Date & Time:			Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-96A-080519	19H0062-01	Solid	05-Aug-2019 10:15	05-Aug-2019 16:40
SO-TC-96B-080519	19H0062-02	Solid	05-Aug-2019 10:30	05-Aug-2019 16:40
SO-TC-96C-080519	19H0062-03	Solid	05-Aug-2019 10:45	05-Aug-2019 16:40



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:48

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received August 5, 2019 under ARI work order 19H0062. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No. 19H0062

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES ☐ NO ☒

Were custody papers included with the cooler? YES ☒ NO ☐

Were custody papers properly filled out (ink, signed, etc.) YES ☒ NO ☐

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1640

24.5°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# DOQ.5206

Cooler Accepted by: JSL Date 08/05/19 Time 1640

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES ☐ NO ☒

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs ☒ Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES ☒ NO ☐

How were bottles sealed in plastic bags? Individually ☒ Grouped ☐ Not ☐

Did all bottles arrive in good condition (unbroken)? YES ☒ NO ☐

Were all bottle labels complete and legible? YES ☒ NO ☐

Did the number of containers listed on COC match with the number of containers received? YES ☒ NO ☐

Did all bottle labels and tags agree with custody papers? YES ☒ NO ☐

Were all bottles used correct for the requested analyses? YES ☒ NO ☐

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES ☐ NO ☒

Were all VOC vials free of air bubbles? NA YES ☐ NO ☒

Was sufficient amount of sample sent in each bottle? YES ☒ NO ☐

Date VOC Trip Blank was made at ARI NA

Were the sample(s) split by ARI? NA YES ☐ NO ☒ Date/Time _____ Equipment _____ Split by _____

Samples Logged by: JSL Date: 08/05/19 Time: 1725 Labels checked by: JSL

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 19H0062

Cooler#: _____ Temperature(°C): 29.5°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: SBW Date: 08/05/19 Time: 1640

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:48

SO-TC-96A-080519
19H0062-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/05/2019 10:15

Instrument: ICP2 Analyst: TCH

Analyzed: 08/08/2019 18:42

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19H0062-01 A 04

Preparation Batch: BHH0198

Sample Size: 25 mL

Prepared: 08-Aug-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0839	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0508	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:48

SO-TC-96A-080519
19H0062-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/05/2019 10:15

Instrument: Accumet AR60 Analyst: BF

Analyzed: 08/12/2019 17:06

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19H0062-01 A

Preparation Batch: BHH0297

Sample Size: 20.5019 g (wet)

Prepared: 12-Aug-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.58	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:48

SO-TC-96B-080519
19H0062-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/05/2019 10:30

Instrument: ICP2 Analyst: TCH

Analyzed: 08/08/2019 18:46

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19H0062-02 A 04

Preparation Batch: BHH0198

Sample Size: 25 mL

Prepared: 08-Aug-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0427	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0068	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:48

SO-TC-96B-080519
19H0062-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/05/2019 10:30

Instrument: Accumet AR60 Analyst: BF

Analyzed: 08/12/2019 17:06

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19H0062-02 A

Preparation Batch: BHH0297

Sample Size: 20.0301 g (wet)

Prepared: 12-Aug-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.83	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:48

SO-TC-96C-080519
19H0062-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/05/2019 10:45

Instrument: ICP2 Analyst: TCH

Analyzed: 08/08/2019 18:50

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19H0062-03 A 04

Preparation Batch: BHH0198

Sample Size: 25 mL

Prepared: 08-Aug-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0594	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0077	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:48

SO-TC-96C-080519
19H0062-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/05/2019 10:45

Instrument: Accumet AR60 Analyst: BF

Analyzed: 08/12/2019 17:06

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19H0062-03 A

Preparation Batch: BHH0297

Sample Size: 20.7712 g (wet)

Prepared: 12-Aug-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.60	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:48

TCLP Metals and Metallic Compounds - Quality Control

Batch BHH0198 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHH0198-BLK1)					Prepared: 08-Aug-2019 Analyzed: 08-Aug-2019 18:38				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:48

Wet Chemistry - Quality Control

Batch BHH0297 - EPA 9045D

Instrument: Accumet AR60 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BHH0297-BS2)					Prepared: 12-Aug-2019 Analyzed: 12-Aug-2019 17:06				
pH	7.05	0.01	0.01	pH Units	7.00	101	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:48

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Water	
Arsenic	NELAP, DoD-ELAP, WADOE
Lead	DoD-ELAP, NELAP, WADOE
EPA 9045D in Solid	
pH	WADOE, CALAP, DoD-ELAP, NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:48

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

13 August 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19H0063

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19H0063		Turn-around Requested: 5 Day		Date: 8/5/2019		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)		
ARI Client Company: PERC		Phone: 425-346-0921		Page: of				
Client Contact: Kenny King		No. of Coolers: 0		Cooler Temps: 24.5°C				
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	pH 9045C			
Sample ID	Date	Time	Matrix	No. Containers				
SO-TC-97A-080519	08/05/19	16:00	Soil	1	✓	✓		
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walter</i>		
				Printed Name: Kenny King		Printed Name: Jacob Walter		
				Company: PERC		Company: ARZ		
				Date & Time: 8/5/19 16:40		Date & Time: 08/05/19 1640		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-97A-080519	19H0063-01	Solid	05-Aug-2019 16:00	05-Aug-2019 16:40



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:57

Work Order Case Narrative

Sample receipt

One sample as listed on the preceding page was received August 5, 2019 under ARI work order 19H0063. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client PERL
COC No(s): NA
Assigned ARI Job No: 19H0063

Project Name: Superior Plastics
Delivered by Fed-Ex UPS Courier Hand Delivered Other _____
Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 1640 24.5°C
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO 5206

Cooler Accepted by: JSW Date: 08/05/19 Time: 1640

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: (NA)
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JSW Date: 08/05/19 Time: 1728 Labels checked by: JSW

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: JS Date: 08/05/19 Time: 1640

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:57

SO-TC-97A-080519
19H0063-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/05/2019 16:00

Instrument: ICP2 Analyst: TCH

Analyzed: 08/08/2019 18:55

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19H0063-01 A 04

Preparation Batch: BHH0198

Sample Size: 25 mL

Prepared: 08-Aug-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0434	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.181	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:57

SO-TC-97A-080519
19H0063-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/05/2019 16:00

Instrument: Accumet AR60 Analyst: BF

Analyzed: 08/12/2019 17:06

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19H0063-01 A

Preparation Batch: BHH0297

Sample Size: 20.4907 g (wet)

Prepared: 12-Aug-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.21	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:57

TCLP Metals and Metallic Compounds - Quality Control

Batch BHH0198 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHH0198-BLK1)					Prepared: 08-Aug-2019 Analyzed: 08-Aug-2019 18:38				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:57

Wet Chemistry - Quality Control

Batch BHH0297 - EPA 9045D

Instrument: Accumet AR60 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BHH0297-BS2)									
Prepared: 12-Aug-2019 Analyzed: 12-Aug-2019 17:06									
pH	7.05	0.01	0.01	pH Units	7.00	101	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:57

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Water	
Arsenic	NELAP,DoD-ELAP,WADOE
Lead	DoD-ELAP,NELAP,WADOE
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 12:57

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

13 August 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19H0087

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 1940087	Turn-around Requested: 3 Day
ARI Client Company: PERC	Phone: 425-346-0921
Client Contact: Kenny King	
Client Project Name: Superlon Plastics	
Client Project #: SLON	Samplers: King

Date:	8/7/2019	
Page:	of	
No. of Coolers:	4	Cooler Temps: 26.7 °C



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-97B-080719	08/07/19	15:45	Soil	1	✓	✓							
Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Jacob Walte</i>			Relinquished by: (Signature)			Received by: (Signature)			
	Printed Name: Kenny King			Printed Name: Jacob Walte			Printed Name:			Printed Name:			
	Company: PERC			Company: ARI			Company:			Company:			
	Date & Time: 8/7/2019 16:37			Date & Time: 08/07/19 1637			Date & Time:			Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSSDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 13:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-97B-080719	19H0087-01	Solid	07-Aug-2019 15:45	07-Aug-2019 16:37



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 13:04

Work Order Case Narrative

Sample receipt

One sample as listed on the preceding page was received August 7, 2019 under ARI work order 19H0087. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other _____

Assigned ARI Job No: 19H0087

Tracking No _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 1637

26.7°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DDO 5006

Cooler Accepted by: JSW Date 08/07/19 Time 1637

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? .. Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NO YES Date/Time _____ Equipment: _____ Split by: _____

Samples Logged by: JSW Date: 08/07/19 Time: 1643 Labels checked by: JSW

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 13:04

SO-TC-97B-080719
19H0087-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/07/2019 15:45

Instrument: ICP2 Analyst: TCH

Analyzed: 08/12/2019 11:19

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19H0087-01 A 02

Preparation Batch: BHH0243

Sample Size: 25 mL (wet)

Prepared: 12-Aug-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.806	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.248	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 13:04

SO-TC-97B-080719
19H0087-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/07/2019 15:45

Instrument: Accumet AR60 Analyst: BF

Analyzed: 08/12/2019 17:06

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19H0087-01 A

Preparation Batch: BHH0297

Sample Size: 20.0282 g (wet)

Prepared: 12-Aug-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.66	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 13:04

TCLP Metals and Metallic Compounds - Quality Control

Batch BHH0243 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHH0243-BLK1)					Prepared: 12-Aug-2019 Analyzed: 12-Aug-2019 11:15				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 13:04

Wet Chemistry - Quality Control

Batch BHH0297 - EPA 9045D

Instrument: Accumet AR60 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BHH0297-BS2)									
Prepared: 12-Aug-2019 Analyzed: 12-Aug-2019 17:06									
pH	7.05	0.01	0.01	pH Units	7.00	101	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 13:04

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Aug-2019 13:04

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Two data packages for your review

From jking perc-nw.com <jking@perc-nw.com>

Date Thu 8/29/2019 9:47 AM

To David Bosch <DBosch@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>; sduggan perc-nw.com <sduggan@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

Thanks David. I did get this one. Thank you for your diligence. I believe that our email issues are behind us.

My Best

Jeff

From: David Bosch [mailto:DBosch@tpchd.org]

Sent: Wednesday, August 28, 2019 1:53 PM

To: jking perc-nw.com <jking@perc-nw.com>

Subject: RE: Two data packages for your review

Yes, I received this email and responded with approval for disposal at the LRI Landfill yesterday afternoon about 2:15 pm. I attempted to forward that email to you a couple of minutes ago.

Did you receive it?

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: jking perc-nw.com <jking@perc-nw.com>

Sent: Wednesday, August 28, 2019 1:23 PM

To: David Bosch <DBosch@tpchd.org>

Cc: kking perc-nw.com <kking@perc-nw.com>

Subject: FW: Two data packages for your review

David:

Did you receive the email below? We have been having email problems and want to make sure you got this.

Thanks

Jeff

From: kking perc-nw.com
Sent: Wednesday, August 28, 2019 1:17 PM
To: jking perc-nw.com <jking@perc-nw.com>
Subject: FW: Two data packages for your review

From: jking perc-nw.com
Sent: Monday, August 26, 2019 11:10 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>; grimstedb@uspioneer.com; sduggan perc-nw.com <sduggan@perc-nw.com>
Subject: Two data packages for your review

David:

Attached are two data packages for your review and approval. As usual each sample represents approximately 22 CY of soil. The following table summarizes the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-98A-081319	0.125	0.0095	9.31
SO-TC-98B-081319	0.224	0.0196	9.11
SO-TC-98C-081319	0.188	0.016	9.18
SO-TC-99A-081419	0.35	0.0959	7.07

Thank you as always
Jeff

Jeffrey D. King, P.G./L.G.
Principal Geologist/President
Pacific Environmental & Redevelopment Corporation (PERC)
8424 E Meadow Lake Drive
Snohomish, WA 98290
United States of America
425-238-2212
jking@perc-nw.com

This electronic mail transmission and any accompanying documents contain information belonging to the sender which may be confidential and legally privileged. This information is intended only for the use of the individual or entity to whom this electronic mail transmission was sent as indicated above. If you are not the intended recipient, any disclosure, copying, distribution, or action taken in reliance on the contents of the information contained in this transmission is strictly prohibited. If you have received this transmission in error, please notify the sender by return e-mail and delete the message. Thank you



Analytical Resources, Incorporated
Analytical Chemists and Consultants

20 August 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19H0185

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19H0185		Turn-around Requested: 5 Day			Date: 8/14/2019			 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)								
ARI Client Company: PERC		Phone: 425-346-0921			Page: of											
Client Contact: Kenny King					No. of Coolers: 1 Cooler Temps: 28.1											
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments				
Client Project #: SLON		Samplers: Duggan			TCLP 1311 As/Pb Only	pH 9045C										
Sample ID	Date	Time	Matrix	No. Containers												
SO-TC-98A-081319	08/13/19	14:00	Soil	1			✓	✓								
SO-TC-98B-081319	08/13/19	14:15	Soil	1			✓	✓								
SO-TC-98C-081319	08/13/19	14:30	Soil	1			✓	✓								
Comments/Special Instructions					Relinquished by: (Signature) <i>[Signature]</i>			Received by: (Signature) <i>[Signature]</i>			Relinquished by: (Signature)			Received by: (Signature)		
					Printed Name: Jeff King			Printed Name: Erin Sallu			Printed Name:			Printed Name:		
					Company: PERC			Company: ARI			Company:			Company:		
					Date & Time: 8/14/2019 1:58			Date & Time: 8/14/19 1:58			Date & Time:			Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-98A-081319	19H0185-01	Solid	13-Aug-2019 14:00	14-Aug-2019 13:58
SO-TC-98B-081319	19H0185-02	Solid	13-Aug-2019 14:15	14-Aug-2019 13:58
SO-TC-98C-081319	19H0185-03	Solid	13-Aug-2019 14:30	14-Aug-2019 13:58



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:37

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received August 14, 2019 under ARI work order 19H0185. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superden plastics

COC No(s): _____ NA

Delivered by Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 19H0185

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES ☒ NO ☒

Were custody papers included with the cooler? _____

YES ☒ NO ☒

Were custody papers properly filled out (ink, signed, etc.) _____

YES ☒ NO ☒

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1358

28.1

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# DOQ2565

Cooler Accepted by: [Signature]

Date: 8/14/19

Time: 1358

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES ☒ NO ☒

What kind of packing material was used? _____ Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA ☒ YES ☒ NO ☒

How were bottles sealed in plastic bags? _____

Individually ☒ Grouped ☒ NO ☒

Did all bottles arrive in good condition (unbroken)? _____

YES ☒ NO ☒

Were all bottle labels complete and legible? _____

YES ☒ NO ☒

Did the number of containers listed on COC match with the number of containers received? _____

YES ☒ NO ☒

Did all bottle labels and tags agree with custody papers? _____

YES ☒ NO ☒

Were all bottles used correct for the requested analyses? _____

YES ☒ NO ☒

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA ☒ YES ☒ NO ☒

Were all VOC vials free of air bubbles? _____

NA ☒ YES ☒ NO ☒

Was sufficient amount of sample sent in each bottle? _____

YES ☒ NO ☒

Date VOC Trip Blank was made at ARI: _____

NA ☒

Were the sample(s) split by ARI? ☒ NA

YES

Date/Time _____

Equipment _____

Split by: _____

Samples Logged by: [Signature] Date: 8/14/19 Time: 1432 Labels checked by: [Signature]

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 19H0185

Cooler#: _____ Temperature(°C): 23.1

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples above 6°C

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: [Signature]

Date: 8/14/19

Time: 1358

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:37

SO-TC-98A-081319
19H0185-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/13/2019 14:00

Instrument: ICP2 Analyst: TCH

Analyzed: 08/19/2019 10:11

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19H0185-01 A 02

Preparation Batch: BHH0416

Sample Size: 25 mL (wet)

Prepared: 16-Aug-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.125	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0095	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:37

SO-TC-98A-081319
19H0185-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/13/2019 14:00

Instrument: Accumet AR60 Analyst: BF

Analyzed: 08/20/2019 13:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19H0185-01 A

Preparation Batch: BHH0487

Sample Size: 20.56 g (wet)

Prepared: 20-Aug-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.31	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:37

SO-TC-98B-081319
19H0185-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/13/2019 14:15

Instrument: ICP2 Analyst: TCH

Analyzed: 08/19/2019 10:15

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19H0185-02 A 02

Preparation Batch: BHH0416

Sample Size: 25 mL (wet)

Prepared: 16-Aug-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.224	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0196	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:37

SO-TC-98B-081319
19H0185-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/13/2019 14:15

Instrument: Accumet AR60 Analyst: BF

Analyzed: 08/20/2019 13:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19H0185-02 A

Preparation Batch: BHH0487

Sample Size: 20.89 g (wet)

Prepared: 20-Aug-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.11	pH Units	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:37

SO-TC-98C-081319
19H0185-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/13/2019 14:30

Instrument: ICP2 Analyst: TCH

Analyzed: 08/19/2019 10:20

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19H0185-03 A 02

Preparation Batch: BHH0416

Sample Size: 25 mL (wet)

Prepared: 16-Aug-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.188	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0160	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:37

SO-TC-98C-081319
19H0185-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/13/2019 14:30

Instrument: Accumet AR60 Analyst: BF

Analyzed: 08/20/2019 13:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19H0185-03 A

Preparation Batch: BHH0487

Sample Size: 20.18 g (wet)

Prepared: 20-Aug-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.18	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:37

TCLP Metals and Metallic Compounds - Quality Control

Batch BHH0416 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHH0416-BLK1)					Prepared: 16-Aug-2019 Analyzed: 19-Aug-2019 10:07				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:37

Wet Chemistry - Quality Control

Batch BHH0487 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BHH0487-BS1)										
						Prepared: 20-Aug-2019 Analyzed: 20-Aug-2019 13:03				
pH	7.03	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BHH0487-DUP1)										
		Source: 19H0185-01				Prepared: 20-Aug-2019 Analyzed: 20-Aug-2019 13:03				
pH	9.43	0.01	0.01	pH Units	9.31		1.28	20		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:37

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:37

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

20 August 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19H0186

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19H0186		Turn-around Requested: 5 Day			Date: 8/14/2019			 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)						
ARI Client Company: PERC		Phone: 425-346-0921			Page: of									
Client Contact: Kenny King					No. of Coolers: 1 Cooler Temps: 28.1									
Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-99A-081419	08/14/19	11:30	Soil	1	✓	✓								
Comments/Special Instructions					Relinquished by: (Signature) 		Received by: (Signature) 		Relinquished by: (Signature)		Received by: (Signature)			
					Printed Name: Jeff King		Printed Name: Erin Scalle		Printed Name:		Printed Name:			
					Company: PERC		Company: ARI		Company:		Company:			
					Date & Time: 8/14/2019 1:58		Date & Time: 8/14/19 1358		Date & Time:		Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-99A-081419	19H0186-01	Solid	14-Aug-2019 11:30	14-Aug-2019 13:58



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:39

Work Order Case Narrative

Sample receipt

One sample as listed on the preceding page were received August 14, 2019 under ARI work order 19H0186. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superdon plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other _____

Assigned ARI Job No: 19H0186

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES ☒ NO ☒

Were custody papers included with the cooler? _____

YES ☒ NO ☐

Were custody papers properly filled out (ink, signed, etc.) _____

YES ☒ NO ☐

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1358

28.1

If cooler temperature is out of compliance fill out form D0070F

Temp Gun ID# D002565

Cooler Accepted by: [Signature]

Date 8/14/19

Time 1358

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES ☐ NO ☒

What kind of packing material was used? ...

Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other _____

Was sufficient ice used (if appropriate)? _____

NA ☒ YES ☐ NO ☐

How were bottles sealed in plastic bags? _____

Individually ☒ Grouped ☐ Not ☐

Did all bottles arrive in good condition (unbroken)? _____

YES ☒ NO ☐

Were all bottle labels complete and legible? _____

YES ☒ NO ☐

Did the number of containers listed on COC match with the number of containers received? _____

YES ☒ NO ☐

Did all bottle labels and tags agree with custody papers? _____

YES ☒ NO ☐

Were all bottles used correct for the requested analyses? _____

YES ☒ NO ☐

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA ☒ YES ☐ NO ☐

Were all VOC vials free of air bubbles? _____

NA ☒ YES ☐ NO ☐

Was sufficient amount of sample sent in each bottle? _____

YES ☒ NO ☐

Date VOC Trip Blank was made at ARI. _____

NA ☒

Were the sample(s) split by ARI? ☒ YES ☐

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: [Signature] Date: 8/14/19 Time: 1436 Labels checked by: [Signature]

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

ARI Work Order: _____

Cooler#:

Temperature(°C): 78.1

Sample ID

Bottle Count

Bottle Type

Samples above 6°C

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Completed by [Signature]

Date: 8/14/19

Time: 1358

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:39

SO-TC-99A-081419
19H0186-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/14/2019 11:30

Instrument: ICP2 Analyst: TCH

Analyzed: 08/19/2019 10:58

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19H0186-01 A 02

Preparation Batch: BHH0416

Sample Size: 25 mL (wet)

Prepared: 16-Aug-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.350	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0959	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:39

SO-TC-99A-081419
19H0186-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/14/2019 11:30

Instrument: Accumet AR60 Analyst: BF

Analyzed: 08/20/2019 13:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19H0186-01 A

Preparation Batch: BHH0487

Sample Size: 20.17 g (wet)

Prepared: 20-Aug-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.07	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:39

TCLP Metals and Metallic Compounds - Quality Control

Batch BHH0416 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHH0416-BLK1)					Prepared: 16-Aug-2019 Analyzed: 19-Aug-2019 10:07				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:39

Wet Chemistry - Quality Control

Batch BHH0487 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BHH0487-BS1)					Prepared: 20-Aug-2019 Analyzed: 20-Aug-2019 13:03				
pH	7.03	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:39

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Aug-2019 15:39

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



FW: One data package for your approval

From jking perc-nw.com <jking@perc-nw.com>

Date Tue 9/10/2019 7:50 AM

To kking perc-nw.com <kking@perc-nw.com>; sduggan perc-nw.com <sduggan@perc-nw.com>

You are good for the haul this Thursday

From: David Bosch [mailto:DBosch@tpchd.org]

Sent: Tuesday, September 10, 2019 7:15 AM

To: jking perc-nw.com <jking@perc-nw.com>

Subject: RE: One data package for your approval

Jeff,

Thank you for the information. The Health Department has reviewed the data set dated September 5, 2019. The soils associated with these characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: jking perc-nw.com <jking@perc-nw.com>

Sent: Monday, September 9, 2019 4:07 PM

To: David Bosch <DBosch@tpchd.org>

Subject: One data package for your approval

Attached is one data package for your approval.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-101A-082719	0.113	0.0168	8.52
SO-TC-101B-082719	0.134	0.149	8.77
SO-TC-101C-082719	0.0809	0.0105	9.19

Thanks

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

05 September 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19H0428

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

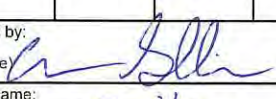
Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19H0428		Turn-around Requested: 5 Day			Date: 8/28/2019		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 425-346-0921			Page: of									
Client Contact: Kenny King					No. of Coolers: 1 Cooler Temps: 26.3									
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments		
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only pH 9045C									
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-101A-082719	08/27/19	10:00	Soil	1		✓	✓							
SO-TC-101B-082719	08/27/19	10:15	Soil	1		✓	✓							
SO-TC-101C-082719	08/27/19	10:30	Soil	1		✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) 		Received by: (Signature) 		Relinquished by: (Signature)		Received by: (Signature)			
					Printed Name: JEFF KING		Printed Name: Erin Scalle		Printed Name:		Printed Name:			
					Company: PERC		Company: ARI		Company:		Company:			
					Date & Time: 8/28/19 2:07		Date & Time: 8/28/19 1407		Date & Time:		Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2019 16:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-101A-082719	19H0428-01	Solid	27-Aug-2019 10:00	28-Aug-2019 14:07
SO-TC-101B-082719	19H0428-02	Solid	27-Aug-2019 10:15	28-Aug-2019 14:07
SO-TC-101C-082719	19H0428-03	Solid	27-Aug-2019 10:30	28-Aug-2019 14:07



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2019 16:28

Work Order Case Narrative

Sample receipt

One sample as listed on the preceding page were received August 28, 2019 under ARI work order 19H0428. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The samples were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

A duplicate was prepared in conjunction with sample SO-TC-101A-082719. The duplicate RPD was within QC limits.

TCLP Metals

The samples were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The LCS percent recovery was within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: SLON

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 19H0428

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 1407

26.3

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# DQ05206

Cooler Accepted by: L. S. M.

Date: 8/28/19

Time: 1407

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

6/28/19
YES NO

What kind of packing material was used? _____ Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES NO

How were bottles sealed in plastic bags? _____

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) _____

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

NA YES NO

Date VOC Trip Blank was made at ARI: _____

NA YES NO

Were the sample(s) split by ARI? NA YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: L. S. M. Date: 8/28/19 Time: 1422 Labels checked by: GS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 19H0428

Cooler#:

Temperature(°C): 26.3

Sample ID

Bottle Count

Bottle Type

Samples above 6°C

3

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Completed by SLH

Date: 8/28/19

Time: 26.3

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2019 16:28

SO-TC-101A-082719
19H0428-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/27/2019 10:00

Instrument: ICP2 Analyst: TCH

Analyzed: 09/04/2019 11:07

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19H0428-01 A 02

Preparation Batch: BHI0032

Sample Size: 25 mL (wet)

Prepared: 03-Sep-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.113	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0168	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2019 16:28

SO-TC-101A-082719
19H0428-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/27/2019 10:00

Instrument: Accumet AB150 Analyst: YK

Analyzed: 09/02/2019 12:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19H0428-01 A

Preparation Batch: BHI0013

Sample Size: 20.25 g (wet)

Prepared: 02-Sep-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.52	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2019 16:28

SO-TC-101B-082719
19H0428-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/27/2019 10:15

Instrument: ICP2 Analyst: TCH

Analyzed: 09/04/2019 11:12

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19H0428-02 A 02

Preparation Batch: BHI0032

Sample Size: 25 mL (wet)

Prepared: 03-Sep-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.134	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.149	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2019 16:28

SO-TC-101B-082719
19H0428-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/27/2019 10:15

Instrument: Accumet AB150 Analyst: YK

Analyzed: 09/02/2019 12:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19H0428-02 A

Preparation Batch: BHI0013

Sample Size: 20.36 g (wet)

Prepared: 02-Sep-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.77	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2019 16:28

SO-TC-101C-082719
19H0428-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/27/2019 10:30

Instrument: ICP2 Analyst: TCH

Analyzed: 09/04/2019 11:16

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19H0428-03 A 02

Preparation Batch: BHI0032

Sample Size: 25 mL (wet)

Prepared: 03-Sep-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0809	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0105	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2019 16:28

SO-TC-101C-082719
19H0428-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/27/2019 10:30

Instrument: Accumet AB150 Analyst: YK

Analyzed: 09/02/2019 12:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19H0428-03 A

Preparation Batch: BHI0013

Sample Size: 20.89 g (wet)

Prepared: 02-Sep-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.19	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2019 16:28

TCLP Metals and Metallic Compounds - Quality Control

Batch BHI0032 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BHI0032-BLK1)										
Prepared: 03-Sep-2019 Analyzed: 04-Sep-2019 10:04										
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U
LCS (BHI0032-BS1)										
Prepared: 03-Sep-2019 Analyzed: 04-Sep-2019 10:42										
Lead	4.32	0.0065	0.100	mg/L	4.00		108 80-120			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2019 16:28

Wet Chemistry - Quality Control

Batch BHI0013 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: YK

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BHI0013-BS1)									
					Prepared: 02-Sep-2019 Analyzed: 02-Sep-2019 12:25				
pH	7.02	0.01	0.01	pH Units	7.00	100	99.2-100.8		
Duplicate (BHI0013-DUP1)									
					Source: 19H0428-01 Prepared: 02-Sep-2019 Analyzed: 02-Sep-2019 12:25				
pH	8.56	0.01	0.01	pH Units	8.52		0.47	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2019 16:28

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2019 16:28

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



FW: Three data packages for your approval

From jking perc-nw.com <jking@perc-nw.com>

Date Mon 9/30/2019 3:38 PM

To sduggan perc-nw.com <sduggan@perc-nw.com>; kking perc-nw.com <kking@perc-nw.com>; Bg (grimstedb@uspioneer.com) <grimstedb@uspioneer.com>

FYI

From: David Bosch [mailto:DBosch@tpchd.org]

Sent: Monday, September 30, 2019 2:55 PM

To: jking perc-nw.com <jking@perc-nw.com>

Subject: RE: Three data packages for your approval

Jeff,

The Health Department has reviewed the three data packages that you submitted. Two were dated September 20th and one was dated September 23. The soils characterized by these testing data are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: jking perc-nw.com <jking@perc-nw.com>

Sent: Monday, September 30, 2019 1:40 PM

To: David Bosch <DBosch@tpchd.org>

Cc: kking perc-nw.com <kking@perc-nw.com>; sduggan perc-nw.com <sduggan@perc-nw.com>; Bg (grimstedb@uspioneer.com) <grimstedb@uspioneer.com>

Subject: Three data packages for your approval

David:

Attached are three data packages for your approval. Each sample represents approximately 22 CY of soil. The table below summarizes the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
-----------	--------------------------------------	-----------------------------------	----

SO-TC-102A-090519	0.0856	0.0497	8.68
SO-TC-102B-090519	0.0609	0.0103	8.95
SO-TC-102C-090519	0.0856	0.0069	9.02
SO-TC-103A-091019	0.87	0.0954	7.44
SO-TC-104A-091119	0.134	0.0864	8.23
SO-TC-104B-091119	0.0843	0.0164	8.92
SO-TC-104C-091119	0.114	0.0115	8.92

Thank you
Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

20 September 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19I0117

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 1910117		Turn-around Requested: 10 Day		Date: 9/9/2019		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of					
Client Contact: Kenny King				No. of Coolers: 0 Cooler Temps: 23.9°C					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: Duggan		TCLP 1311 As/Pb Only		pH 9045C			
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-102A-090519	09/05/19	15:00	Soil	1	✓	✓			
SO-TC-102B-090519	09/05/19	15:15	Soil	1	✓	✓			
SO-TC-102C-090519	09/05/19	15:30	Soil	1	✓	✓			
Comments/Special Instructions		Relinquished by:		Received by:		Relinquished by:		Received by:	
		(Signature) <i>Kenny King</i>		(Signature) <i>Jacob Valte</i>		(Signature)		(Signature)	
		Printed Name: Kenny King		Printed Name: Jacob Valte		Printed Name:		Printed Name:	
		Company: PERC		Company: ARI		Company:		Company:	
Date & Time: 9/9/19 16:47		Date & Time: 9/9/19 1647		Date & Time:		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-102A-090519	19I0117-01	Solid	05-Sep-2019 15:00	09-Sep-2019 16:47
SO-TC-102B-090519	19I0117-02	Solid	05-Sep-2019 15:15	09-Sep-2019 16:47
SO-TC-102C-090519	19I0117-03	Solid	05-Sep-2019 15:30	09-Sep-2019 16:47



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:46

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received September 9, 2019 under ARI work order 19I0117. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 1970117

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1647 2338

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO5206

Cooler Accepted by: JS Date: 09/09/19 Time: 1647

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped JS
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analysis? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: JS Date: 09/09/19 Time: 1716 Labels checked by: JS

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: SS Date: 09/04/19 Time: 1647

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:46

SO-TC-102A-090519
19I0117-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/05/2019 15:00

Instrument: ICP2 Analyst: MCB

Analyzed: 09/18/2019 12:49

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19I0117-01 A 02

Preparation Batch: BHI0377

Sample Size: 25 mL (wet)

Prepared: 13-Sep-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0856	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0497	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:46

SO-TC-102A-090519
19I0117-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/05/2019 15:00

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 09/16/2019 19:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19I0117-01 A

Preparation Batch: BHI0435

Sample Size: 20.01 g (wet)

Prepared: 15-Sep-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.68	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:46

SO-TC-102B-090519
19I0117-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/05/2019 15:15

Instrument: ICP2 Analyst: MCB

Analyzed: 09/18/2019 12:54

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19I0117-02 A 02

Preparation Batch: BHI0377

Sample Size: 25 mL (wet)

Prepared: 13-Sep-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0609	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0103	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:46

SO-TC-102B-090519
19I0117-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/05/2019 15:15

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 09/16/2019 19:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19I0117-02 A

Preparation Batch: BHI0435

Sample Size: 20 g (wet)

Prepared: 15-Sep-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.95	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:46

SO-TC-102C-090519
19I0117-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/05/2019 15:30

Instrument: ICP2 Analyst: MCB

Analyzed: 09/18/2019 12:59

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19I0117-03 A 02

Preparation Batch: BHI0377

Sample Size: 25 mL (wet)

Prepared: 13-Sep-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0856	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0069	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:46

SO-TC-102C-090519
19I0117-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/05/2019 15:30

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 09/16/2019 19:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19I0117-03 A

Preparation Batch: BHI0435

Sample Size: 20.17 g (wet)

Prepared: 15-Sep-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.02	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:46

TCLP Metals and Metallic Compounds - Quality Control

Batch BHI0377 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHI0377-BLK1)									
Prepared: 13-Sep-2019 Analyzed: 17-Sep-2019 15:30									
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:46

Wet Chemistry - Quality Control

Batch BHI0435 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BHI0435-BS1)									
Prepared: 15-Sep-2019 Analyzed: 16-Sep-2019 19:02									
pH	7.04	0.01	0.01	pH Units	7.00	101	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:46

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:46

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

20 September 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19I0156

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 1970156		Turn-around Requested: 10 Day		Date: 9/10/2019		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)		
ARI Client Company: PERC		Phone: 425-346-0921		Page: of				
Client Contact: Kenny King		No. of Coolers: 1		Cooler Temps: 25.2				
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	pH 9045C			
Sample ID	Date	Time	Matrix	No. Containers				
SO-TC-103A-091019	09/10/19	15:00	Soil	1	✓	✓		
Comments/Special Instructions				Relinquished by:		Received by:		
				(Signature) <i>Kenny King</i>		(Signature) <i>Erin Salte</i>		
				Printed Name: Kenny King		Printed Name: Erin Salte		
				Company: PERC		Company: ARI		
				Date & Time: 9/10/2019 16:43		Date & Time: 9/10/19 1643		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSSDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-103A-091019	19I0156-01	Solid	10-Sep-2019 15:00	10-Sep-2019 16:43



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:54

Work Order Case Narrative

Sample receipt

One sample as listed on the preceding page was received September 10, 2019 under ARI work order 19I0156. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 19J0156

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES

NO

Were custody papers included with the cooler? _____

YES

NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES

NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) _____

Time: 1643

25.2

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DD05206

Cooler Accepted by: LSR

Date: 9/10/19

Time: 1643

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES

NO

What kind of packing material was used? _____

Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA

YES

NO

How were bottles sealed in plastic bags? _____

Individually

Grouped

Not

Did all bottles arrive in good condition (unbroken)? _____

YES

NO

Were all bottle labels complete and legible? _____

YES

NO

Did the number of containers listed on COC match with the number of containers received? _____

YES

NO

Did all bottle labels and tags agree with custody papers? _____

YES

NO

Were all bottles used correct for the requested analyses? _____

YES

NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) _____

NA

YES

NO

Were all VOC vials free of air bubbles? _____

NA

YES

NO

Was sufficient amount of sample sent in each bottle? _____

YES

NO

Date VOC Trip Blank was made at ARI: _____

NA

Were the sample(s) split by ARI? _____

NA

YES

Date/Time _____

Equipment: _____

Split by: _____

Samples Logged by: JSW

Date: 09/11/19

Time: 0929

Labels checked by: JSW

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

Completed by: [Signature]
00070F

Time: 1643

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:54

SO-TC-103A-091019
19I0156-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/10/2019 15:00

Instrument: ICP2 Analyst: MCB

Analyzed: 09/18/2019 12:17

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19I0156-01 A 02

Preparation Batch: BHI0377

Sample Size: 25 mL (wet)

Prepared: 13-Sep-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.870	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0954	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:54

SO-TC-103A-091019
19I0156-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/10/2019 15:00

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 09/16/2019 19:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19I0156-01 A

Preparation Batch: BHI0435

Sample Size: 20.19 g (wet)

Prepared: 15-Sep-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.44	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:54

TCLP Metals and Metallic Compounds - Quality Control

Batch BHI0377 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BHI0377-BLK1)					Prepared: 13-Sep-2019 Analyzed: 17-Sep-2019 15:30					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:54

Wet Chemistry - Quality Control

Batch BHI0435 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BHI0435-BS1)									
Prepared: 15-Sep-2019 Analyzed: 16-Sep-2019 19:02									
pH	7.04	0.01	0.01	pH Units	7.00	101	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:54

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2019 09:54

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

23 September 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19I0243

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19I0243	Turn-around Requested: 5 Day	Date: 9/16/2019
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 0 Cooler Temps: 22.8°C



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments			
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C										
Sample ID	Date	Time	Matrix	No. Containers												
SO-TC-104A-091119	09/11/19	14:00	Soil	1	✓	✓										
SO-TC-104B-091119	09/11/19	14:09	Soil	1	✓	✓										
SO-TC-104C-091119	09/11/19	14:15	Soil	1	✓	✓										
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Jacob...</i>			Relinquished by: (Signature)			Received by: (Signature)		
					Printed Name: Kenny King			Printed Name: Jacob...			Printed Name:			Printed Name:		
					Company: PERC			Company: ARI			Company:			Company:		
					Date & Time: 9/16/2019 16:45			Date & Time: 09/16/19 1645			Date & Time:			Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Sep-2019 14:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-104A-091119	19I0243-01	Solid	11-Sep-2019 14:00	16-Sep-2019 16:45
SO-TC-104B-091119	19I0243-02	Solid	11-Sep-2019 14:09	16-Sep-2019 16:45
SO-TC-104C-091119	19I0243-03	Solid	11-Sep-2019 14:15	16-Sep-2019 16:45



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Sep-2019 14:21

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received September 16, 2019 under ARI work order 19I0243. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 1970243

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2-6 °C for chemistry)

Time 1645

22.8°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# DOO 5206

Cooler Accepted by: JSW Date: 09/16/19 Time: 1645

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment Split by:

Samples Logged by: JSW Date: 09/16/19 Time: 1650 Labels checked by: JSW

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

Completed by: JA Date: 09/16/19 Time: 1045
00070F Cooler Temperature Compliance Form Ver



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Sep-2019 14:21

SO-TC-104A-091119
19I0243-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/11/2019 14:00

Instrument: ICP2 Analyst: TCH

Analyzed: 09/20/2019 12:27

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19I0243-01 A 04

Preparation Batch: BHI0553

Sample Size: 25 mL (wet)

Prepared: 19-Sep-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.134	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0864	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Sep-2019 14:21

SO-TC-104A-091119
19I0243-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/11/2019 14:00

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 09/17/2019 23:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19I0243-01 A

Preparation Batch: BHI0507

Sample Size: 20.09 g (wet)

Prepared: 17-Sep-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.23	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Sep-2019 14:21

SO-TC-104B-091119
19I0243-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/11/2019 14:09

Instrument: ICP2 Analyst: TCH

Analyzed: 09/20/2019 12:32

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19I0243-02 A 04

Preparation Batch: BHI0553

Sample Size: 25 mL (wet)

Prepared: 19-Sep-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0843	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0164	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Sep-2019 14:21

SO-TC-104B-091119
19I0243-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/11/2019 14:09

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 09/17/2019 23:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19I0243-02 A

Preparation Batch: BHI0507

Sample Size: 20.08 g (wet)

Prepared: 17-Sep-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.92	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Sep-2019 14:21

SO-TC-104C-091119
19I0243-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/11/2019 14:15

Instrument: ICP2 Analyst: TCH

Analyzed: 09/20/2019 12:36

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19I0243-03 A 04

Preparation Batch: BHI0553

Sample Size: 25 mL (wet)

Prepared: 19-Sep-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.114	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0115	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Sep-2019 14:21

SO-TC-104C-091119
19I0243-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/11/2019 14:15

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 09/17/2019 23:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19I0243-03 A

Preparation Batch: BHI0507

Sample Size: 20.1 g (wet)

Prepared: 17-Sep-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.92	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Sep-2019 14:21

TCLP Metals and Metallic Compounds - Quality Control

Batch BHI0553 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHI0553-BLK1)					Prepared: 19-Sep-2019 Analyzed: 20-Sep-2019 10:53				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Sep-2019 14:21

Wet Chemistry - Quality Control

Batch BHI0507 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BHI0507-BS1)										
					Prepared: 17-Sep-2019 Analyzed: 17-Sep-2019 23:00					
pH	7.01	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BHI0507-DUP1)										
					Source: 19I0243-01 Prepared: 17-Sep-2019 Analyzed: 17-Sep-2019 23:00					
pH	8.27	0.01	0.01	pH Units	8.23			0.49	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Sep-2019 14:21

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Sep-2019 14:21

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Fw: TWO DATA PACKAGES FOR YOUR REVIEW AND APPROVAL

From Jeff King <jking@perc-nw.com>
Date Mon 11/11/2024 1:50 PM
To jking@percnw.com <jking@percnw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

From: David Bosch <DBosch@tpchd.org>
Sent: Wednesday, November 13, 2019 7:31 AM
To: jking perc-nw.com <jking@perc-nw.com>
Subject: RE: TWO DATA PACKAGES FOR YOUR REVIEW AND APPROVAL

Jeff,

As requested, the five batches of soil characterized in the October 30th and November 12th data sets are acceptable for disposal at the LRI Landfill. Batch SO-TC-110C-110419 and a portion of Batch SO-TC-110B-110419 will be reprocessed and resampled.

Thank you.

David Bosch

Environmental Health Specialist III
Environmental Health
(253) 798-6574 o • dbosch@tpchd.org
(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: jking perc-nw.com <jking@perc-nw.com>
Sent: Tuesday, November 12, 2019 3:28 PM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>; Bg (grimstedb@uspioneer.com) <grimstedb@uspioneer.com>
Subject: TWO DATA PACKAGES FOR YOUR REVIEW AND APPROVAL

David:

Attached are two data packages for your review and approval. WE ARE NOT ASKING FOR PERMISSION TO DISPOSE OF SO-TC-110C-110419. This soil, along with ¼ of SO-TC-110B-110419, have been returned to treatment and are being reprocessed. I included the data on the table below for completeness.

SAMPLE ID	Arsenic Concentration (TCLP)	Lead Concentration (TCLP) mg/L	pH	Requested disposal
-----------	---------------------------------	-----------------------------------	----	-----------------------

	mg/L			volume
SO-TC-109A-102319	0.0663	1.16	7.86	<24cy
SO-TC-109B-102319	0.0597	ND	8.83	<24cy
SO-TC-109C-102319	0.107	0.158	8.07	<24cy
SO-TC-110A-110419	0.108	0.463	7.5	<24cy
SO-TC-110B-110419	0.108	1.29	8.21	<18cy
SO-TC-110C-110419	0.153	5.01	8.12	0cy

Thanks

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

30 October 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19J0396

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc.,
cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2019.10.30 10:55:02 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19J0396		Turn-around Requested: 3 Day		Date: 10/23/2019		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of					
Client Contact: Kenny King		No. of Coolers: 0		Cooler Temps: 18.3					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only pH 9045C					
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-109A-102319	10/23/19	09:00	Soil	1	✓	✓			
SO-TC-109B-102319	10/23/19	09:15	Soil	1	✓	✓			
SO-TC-109C-102319	10/23/19	09:30	Soil	1	✓	✓			
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Kenny Dang</i>		Relinquished by: (Signature)		Received by: (Signature)	
		Printed Name: Kenny King		Printed Name: Kenny Dang		Printed Name:		Printed Name:	
		Company: PERC		Company: ARI		Company:		Company:	
		Date & Time: 10/23/19 16:33		Date & Time: 10/23/19 1633		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Oct-2019 09:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-109A-102319	19J0396-01	Solid	23-Oct-2019 09:00	23-Oct-2019 16:33
SO-TC-109B-102319	19J0396-02	Solid	23-Oct-2019 09:15	23-Oct-2019 16:33
SO-TC-109C-102319	19J0396-03	Solid	23-Oct-2019 09:30	23-Oct-2019 16:33



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Oct-2019 09:40

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received October 23, 2019 under ARI work order 19J0396. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry - pH by EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 19J0396-01 in batch BHJ0765. The duplicate RPD was within control limits.

TCLP Metals by EPA Method 6010C

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS spike percent recoveries were within limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 19J0396

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES ☒ NO ☒

Were custody papers included with the cooler? YES ☒ NO ☐

Were custody papers properly filled out (ink, signed, etc.) YES ☒ NO ☐

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1633

18.3

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: KO Date: 10/23/19 Time: 1633

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES ☐ NO ☒

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs ☒ Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES ☐ NO ☒

How were bottles sealed in plastic bags? Individually ☐ Grouped ☒ Not ☒ 10/23/19 KO

Did all bottles arrive in good condition (unbroken)? YES ☒ NO ☐

Were all bottle labels complete and legible? YES ☒ NO ☐

Did the number of containers listed on COC match with the number of containers received? YES ☒ NO ☐

Did all bottle labels and tags agree with custody papers? YES ☒ NO ☐

Were all bottles used correct for the requested analyses? YES ☒ NO ☐

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA ☒ YES ☐ NO ☐

Were all VOC vials free of air bubbles? NA ☒ YES ☐ NO ☐

Was sufficient amount of sample sent in each bottle? YES ☒ NO ☐

Date VOC Trip Blank was made at ARI, NA ☒

Were the sample(s) split by ARI? ☒ YES ☐ NO ☐ Date/Time: _____ Equipment: _____ Split by: _____

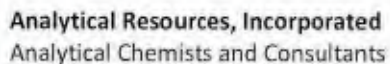
Samples Logged by: KO Date: 10/23/19 Time: 1720 Labels checked by: KO

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

00070F



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Oct-2019 09:40

SO-TC-109A-102319
19J0396-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/23/2019 09:00

Instrument: ICP2 Analyst: TCH

Analyzed: 10/29/2019 15:37

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19J0396-01 A 02

Preparation Batch: BHJ0843

Sample Size: 25 mL (wet)

Prepared: 29-Oct-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0663	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	1.16	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Oct-2019 09:40

SO-TC-109A-102319
19J0396-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/23/2019 09:00

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 10/25/2019 00:32

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19J0396-01 A

Preparation Batch: BHJ0765

Sample Size: 20.16 g (wet)

Prepared: 24-Oct-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.86	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Oct-2019 09:40

SO-TC-109B-102319
19J0396-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/23/2019 09:15

Instrument: ICP2 Analyst: TCH

Analyzed: 10/29/2019 15:41

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19J0396-02 A 02

Preparation Batch: BHJ0843

Sample Size: 25 mL (wet)

Prepared: 29-Oct-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0597	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Oct-2019 09:40

SO-TC-109B-102319
19J0396-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/23/2019 09:15

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 10/25/2019 00:32

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19J0396-02 A

Preparation Batch: BHJ0765

Sample Size: 20.04 g (wet)

Prepared: 24-Oct-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.83	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
30-Oct-2019 09:40

SO-TC-109C-102319
19J0396-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/23/2019 09:30

Instrument: ICP2 Analyst: TCH

Analyzed: 10/29/2019 15:46

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19J0396-03 A 02

Preparation Batch: BHJ0843

Sample Size: 25 mL (wet)

Prepared: 29-Oct-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.107	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.158	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Oct-2019 09:40

SO-TC-109C-102319
19J0396-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/23/2019 09:30

Instrument: Accumet AR60 Analyst: KLE

Analyzed: 10/25/2019 00:32

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19J0396-03 A

Preparation Batch: BHJ0765

Sample Size: 20.07 g (wet)

Prepared: 24-Oct-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.07	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Oct-2019 09:40

TCLP Metals and Metallic Compounds - Quality Control

Batch BHJ0843 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHJ0843-BLK1)									
Prepared: 29-Oct-2019 Analyzed: 29-Oct-2019 15:32									
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Oct-2019 09:40

Wet Chemistry - Quality Control

Batch BHJ0765 - No Prep Wet Chem

Instrument: Accumet AR60 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BHJ0765-BS1)									
					Prepared: 24-Oct-2019 Analyzed: 25-Oct-2019 00:32				
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8		
Duplicate (BHJ0765-DUP1)									
					Source: 19J0396-01 Prepared: 24-Oct-2019 Analyzed: 25-Oct-2019 00:32				
pH	8.01	0.01	0.01	pH Units	7.86		1.89	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
30-Oct-2019 09:40

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Oct-2019 09:40

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

12 November 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19K0045

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc.,
cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2019.11.12 15:05:33 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 19K0045		Turn-around Requested: 5 Day		Date: 11/4/2019		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 425-346-0921		Page: of									
Client Contact: Kenny King		No. of Coolers: 1		Cooler Temps: 19.8									
Client Project Name: Superlon Plastics				Analysis Requested						Notes/Comments			
Client Project #: SLON		Samplers: King											
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C							
SO-TC-110A-110419	11/04/19	10:30	Soil	1	✓	✓							
SO-TC-110B-110419	11/04/19	10:45	Soil	1	✓	✓							
SO-TC-110C-110419	11/04/19	11:00	Soil	1	✓	✓							
Comments/Special Instructions				Relinquished by:		Received by:		Relinquished by:		Received by:			
				(Signature) <i>Kenny King</i>		(Signature) <i>Erin Sall</i>		(Signature)		(Signature)			
				Printed Name:		Printed Name:		Printed Name:		Printed Name:			
				<i>Kenny King</i>		<i>Erin Sall</i>							
Company:				Company:		Company:		Company:		Company:			
<i>PERC</i>				<i>ARI</i>									
Date & Time:				Date & Time:		Date & Time:		Date & Time:		Date & Time:			
<i>11/4/2019 16:48</i>				<i>11/4/19 1648</i>									

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2019 15:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-110A-110419	19K0045-01	Solid	04-Nov-2019 10:30	04-Nov-2019 16:48
SO-TC-110B-110419	19K0045-02	Solid	04-Nov-2019 10:45	04-Nov-2019 16:48
SO-TC-110C-110419	19K0045-03	Solid	04-Nov-2019 11:00	04-Nov-2019 16:48



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2019 15:03

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 19K0045

Sample receipt

Samples as listed on the preceding page were received November 4, 2019 under ARI work order 19K0045. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): _____ NA
Assigned ARI Job No: 19K0045

Project Name: Superdon Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time _____

19.8

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 2565

Cooler Accepted by: [Signature] Date: 11/4/19 Time: 1648

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? _____

Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? _____

NA YES NO

How were bottles sealed in plastic bags? _____

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) _____

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI _____

NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: [Signature] Date: 11/4/19 Time: 1712 Labels checked by: [Signature]

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 19K0045

Cooler#: _____ Temperature(°C): 19.8

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

<u>Samples above 6°C</u>	<u>3</u>	

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: [Signature]

Date: 11/4/19

Time: 1648

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2019 15:03

SO-TC-110A-110419
19K0045-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/04/2019 10:30

Instrument: ICP2 Analyst: TCH

Analyzed: 11/08/2019 15:16

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19K0045-01 A 04

Preparation Batch: BHK0202

Sample Size: 25 mL (wet)

Prepared: 08-Nov-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.108	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.463	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2019 15:03

SO-TC-110A-110419
19K0045-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/04/2019 10:30

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/07/2019 13:14

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19K0045-01 A

Preparation Batch: BHK0172

Sample Size: 22.24 g (wet)

Prepared: 07-Nov-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	7.50	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2019 15:03

SO-TC-110B-110419
19K0045-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/04/2019 10:45

Instrument: ICP2 Analyst: TCH

Analyzed: 11/08/2019 15:21

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19K0045-02 A 04

Preparation Batch: BHK0202

Sample Size: 25 mL (wet)

Prepared: 08-Nov-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.108	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	1.29	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2019 15:03

SO-TC-110B-110419
19K0045-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/04/2019 10:45

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/07/2019 13:14

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19K0045-02 A

Preparation Batch: BHK0172

Sample Size: 20.23 g (wet)

Prepared: 07-Nov-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.21	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2019 15:03

SO-TC-110C-110419
19K0045-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/04/2019 11:00

Instrument: ICP2 Analyst: TCH

Analyzed: 11/08/2019 15:25

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19K0045-03 A 04

Preparation Batch: BHK0202

Sample Size: 25 mL (wet)

Prepared: 08-Nov-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.153	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	5.01	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2019 15:03

SO-TC-110C-110419
19K0045-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/04/2019 11:00

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/07/2019 13:14

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19K0045-03 A

Preparation Batch: BHK0172

Sample Size: 21.42 g (wet)

Prepared: 07-Nov-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	8.12	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2019 15:03

TCLP Metals and Metallic Compounds - Quality Control

Batch BHK0202 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BHK0202-BLK1)					Prepared: 08-Nov-2019 Analyzed: 08-Nov-2019 15:07					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	0.0091	0.0065	0.100	mg/L						J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2019 15:03

Wet Chemistry - Quality Control

Batch BHK0172 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BHK0172-BS1)					Prepared: 07-Nov-2019 Analyzed: 07-Nov-2019 13:14				
pH	6.95	0.01	0.01	pH Units	7.00	99.3	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2019 15:03

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2019 15:03

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Fw: Three additional data [packages for your review]

From Jeff King <jking@perc-nw.com>
Date Mon 11/11/2024 1:50 PM
To jking@percnw.com <jking@percnw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

From: David Bosch <DBosch@tpchd.org>
Sent: Thursday, November 14, 2019 7:42 AM
To: jking perc-nw.com <jking@perc-nw.com>
Subject: RE: Three additional data [packages for your review]

Jeff,

The Tacoma-Pierce County Health Department has reviewed the three data sets submitted dated November 13, 2019. The soils associated with these waste characterizations are acceptable for disposal in the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: jking perc-nw.com <jking@perc-nw.com>
Sent: Wednesday, November 13, 2019 1:10 PM
To: David Bosch <DBosch@tpchd.org>
Subject: Three additional data [packages for your review]

David:

Received these three data packages (five samples) quicker than I expected so I thought I would pass them along for your approval.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-111B-110519	0.186	0.335	8.07
SO-TC-111C-110619	0.3	0.156	7.11

SO-TC-112A-110619	0.0525	0.106	6.55
SO-TC-112B-110619	0.0563	0.288	6.43
SO-TC-112C-110619	0.0481	0.328	6.55

Thanks

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

13 November 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19K0068

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington,
l=Tukwila, o=Analytical
Resources, Inc., cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2019.11.13 12:20:25 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19K0068		Turn-around Requested: 5 Day			Date: 11/5/2019		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 425-346-0921			Page: of									
Client Contact: Kenny King					No. of Coolers: 1 Cooler Temps: 36.6									
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments		
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-111B-110519	11/05/19	14:45	Soil	1	✓	✓								
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Erin Salla</i>		Relinquished by: (Signature)		Received by: (Signature)			
					Printed Name: Kenny King		Printed Name: Erin Salla		Printed Name:		Printed Name:			
					Company: PERC		Company: ARI		Company:		Company:			
					Date & Time: 11/5/2019 16:34		Date & Time: 11/5/19 1634		Date & Time:		Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-111B-110519	19K0068-01	Solid	05-Nov-2019 14:45	05-Nov-2019 16:34



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:17

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 19K0068

Sample receipt

One sample as listed on the preceding page was received November 5, 2019 under ARI work order 19K0068. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 19K0068

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time _____

36.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 2565

Cooler Accepted by: [Signature] Date: 11/5/19 Time: 16:34

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: N/A

Was sufficient ice used (if appropriate)? _____

NA YES NO

How were bottles sealed in plastic bags? _____

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI _____

NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

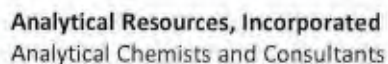
Samples Logged by: [Signature] Date: 11/5/19 Time: 17:36 Labels checked by: 48

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: [Signature] Date: 11/5/19 Time: 1634
00070F Cooler Temperature Compliance Form Ver



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:17

SO-TC-111B-110519
19K0068-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/05/2019 14:45

Instrument: ICP2 Analyst: TCH

Analyzed: 11/12/2019 18:02

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19K0068-01 A 03

Preparation Batch: BHK0271

Sample Size: 25 mL (wet)

Prepared: 12-Nov-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.186	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.335	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:17

SO-TC-111B-110519
19K0068-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/05/2019 14:45

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/07/2019 13:14

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19K0068-01 A

Preparation Batch: BHK0172

Sample Size: 20.11 g (wet)

Prepared: 07-Nov-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.07	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:17

TCLP Metals and Metallic Compounds - Quality Control

Batch BHK0271 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHK0271-BLK1)					Prepared: 12-Nov-2019 Analyzed: 12-Nov-2019 18:55				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:17

Wet Chemistry - Quality Control

Batch BHK0172 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BHK0172-BS1)					Prepared: 07-Nov-2019 Analyzed: 07-Nov-2019 13:14				
pH	6.95	0.01	0.01	pH Units	7.00	99.3	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:17

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:17

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

13 November 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19K0091

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington,
l=Tukwila, o=Analytical Resources,
Inc., cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2019.11.13 12:31:43 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 1910091		Turn-around Requested: 5 Day			Date: 11/6/2019		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)								
ARI Client Company: PERC			Phone: 425-346-0921		Page: of										
Client Contact: Kenny King					No. of Coolers: 1				Cooler Temps: 16.3						
Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments		
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C									
Sample ID		Date	Time	Matrix			No. Containers								
SO-TC-111C-110619		11/06/19	13:15	Soil			1	✓	✓						
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Erin Saller</i>			Relinquished by: (Signature)			Received by: (Signature)				
		Printed Name: Kenny King			Printed Name: Erin Saller			Printed Name:			Printed Name:				
		Company: PERC			Company: ARI			Company:			Company:				
		Date & Time: 11/6/2019 16:39			Date & Time: 11/6/19 16:39			Date & Time:			Date & Time:				

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-111C-110619	19K0091-01	Solid	06-Nov-2019 13:15	06-Nov-2019 16:39



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:29

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 19K0091

Sample receipt

One sample as listed on the preceding page was received November 6, 2019 under ARI work order 19K0091. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

COC No(s): _____ NA

Assigned ARI Job No: 19K0091

Project Name: Superlon Plastics

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES ☐ NO ☒

Were custody papers included with the cooler? _____

YES ☒ NO ☐

Were custody papers properly filled out (ink, signed, etc.) _____

YES ☒ NO ☐

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time _____

16.3

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO2565

Cooler Accepted by: G. S. R.

Date: 11/6/19

Time: 1639

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES ☐ NO ☒

What kind of packing material was used? ...

Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: N/A

Was sufficient ice used (if appropriate)? _____

NA ☐ YES ☒ NO ☐

How were bottles sealed in plastic bags? _____

Individually ☐ Grouped ☒ Not ☐

Did all bottles arrive in good condition (unbroken)? _____

YES ☒ NO ☐

Were all bottle labels complete and legible? _____

YES ☒ NO ☐

Did the number of containers listed on COC match with the number of containers received? _____

YES ☒ NO ☐

Did all bottle labels and tags agree with custody papers? _____

YES ☒ NO ☐

Were all bottles used correct for the requested analyses? _____

YES ☒ NO ☐

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA ☒ YES ☐ NO ☐

Were all VOC vials free of air bubbles? _____

NA ☒ YES ☐ NO ☐

Was sufficient amount of sample sent in each bottle? _____

YES ☒ NO ☐

Date VOC Trip Blank was made at ARI: _____

NA ☒

Were the sample(s) split
by ARI? ☒

YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: G. S. R.

Date: 11/6/19

Time: 1654

Labels checked by: CR

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 19K0091

Cooler#: _____ Temperature(°C): 16.3

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

<u>Samples above 6°C</u>	<u>1</u>	

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: LS

Date: 11/6/19

Time: 16:39

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:29

SO-TC-111C-110619
19K0091-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/06/2019 13:15

Instrument: ICP2 Analyst: TCH

Analyzed: 11/12/2019 18:06

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19K0091-01 A 03

Preparation Batch: BHK0271

Sample Size: 25 mL (wet)

Prepared: 12-Nov-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.300	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.156	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:29

SO-TC-111C-110619
19K0091-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/06/2019 13:15

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/07/2019 13:14

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19K0091-01 A

Preparation Batch: BHK0172

Sample Size: 20.37 g (wet)

Prepared: 07-Nov-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.11	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:29

TCLP Metals and Metallic Compounds - Quality Control

Batch BHK0271 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BHK0271-BLK1)					Prepared: 12-Nov-2019 Analyzed: 12-Nov-2019 18:55					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:29

Wet Chemistry - Quality Control

Batch BHK0172 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BHK0172-BS1)									
Prepared: 07-Nov-2019 Analyzed: 07-Nov-2019 13:14									
pH	6.95	0.01	0.01	pH Units	7.00		99.3 99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:29

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:29

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

13 November 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19K0092

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington,
l=Tukwila, o=Analytical Resources,
Inc., cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2019.11.13 12:38:28 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19K0092		Turn-around Requested: 5 Day		Date: 11/6/2019		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)		
ARI Client Company: PERC		Phone: 425-346-0921		Page: of				
Client Contact: Kenny King		No. of Coolers: 1		Cooler Temps: 16.3				
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	pH 9045C			
Sample ID	Date	Time	Matrix	No. Containers				
SO-TC-112A-110619	11/06/19	15:15	Soil	1	✓	✓		
SO-TC-112B-110619	11/06/19	15:30	Soil	1	✓	✓		
SO-TC-112C-110619	11/06/19	15:45	Soil	1	✓	✓		
Comments/Special Instructions				Relinquished by:	Received by:	Relinquished by:	Received by:	
				(Signature) <i>Kenny King</i>	(Signature) <i>Erin Salo</i>	(Signature)	(Signature)	
				Printed Name: Kenny King	Printed Name: Erin Salo	Printed Name:	Printed Name:	
				Company: PERC	Company: ARI	Company:	Company:	
				Date & Time: 11/6/2019 16:39	Date & Time: 11/6/19 16:39	Date & Time:	Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-112A-110619	19K0092-01	Solid	06-Nov-2019 15:15	06-Nov-2019 16:39
SO-TC-112B-110619	19K0092-02	Solid	06-Nov-2019 15:30	06-Nov-2019 16:39
SO-TC-112C-110619	19K0092-03	Solid	06-Nov-2019 15:45	06-Nov-2019 16:39



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:33

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 19K0092

Sample receipt

Samples as listed on the preceding page were received November 6, 2019 under ARI work order 19K0092. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 19K0092

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES ☐ NO ☒

Were custody papers included with the cooler? _____

YES ☐ NO ☐

Were custody papers properly filled out (ink, signed, etc.) _____

YES ☐ NO ☐

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time _____

16.3

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO2565

Cooler Accepted by: C. S. S.

Date: 11/6/19

Time: 1639

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES ☐ NO ☒

What kind of packing material was used? _____

Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? _____

NA ☐ YES ☐ NO ☒

How were bottles sealed in plastic bags? _____

Individually ☐ Grouped ☒ Not ☐

Did all bottles arrive in good condition (unbroken)? _____

YES ☐ NO ☐

Were all bottle labels complete and legible? _____

YES ☐ NO ☐

Did the number of containers listed on COC match with the number of containers received? _____

YES ☐ NO ☐

Did all bottle labels and tags agree with custody papers? _____

YES ☐ NO ☐

Were all bottles used correct for the requested analyses? _____

YES ☐ NO ☐

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA ☒ YES ☐ NO ☐

Were all VOC vials free of air bubbles? _____

NA ☒ YES ☐ NO ☐

Was sufficient amount of sample sent in each bottle? _____

YES ☐ NO ☐

Date VOC Trip Blank was made at ARI _____

NA ☒

Were the sample(s) split by ARI? ☒ YES

YES

Date/Time: _____

Equipment: _____

Split by: _____

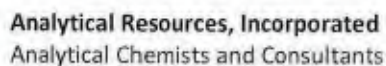
Samples Logged by: C. S. S. Date: 11/6/19 Time: 1704 Labels checked by: LS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: LSH Date: 11/6/19 Time: 16:39
00070F Cooler Temperature Compliance Form



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:33

SO-TC-112A-110619
19K0092-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/06/2019 15:15

Instrument: ICP2 Analyst: TCH

Analyzed: 11/12/2019 18:11

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19K0092-01 A 03

Preparation Batch: BHK0271

Sample Size: 25 mL (wet)

Prepared: 12-Nov-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0525	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.106	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:33

SO-TC-112A-110619
19K0092-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/06/2019 15:15

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/07/2019 13:14

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19K0092-01 A

Preparation Batch: BHK0172

Sample Size: 22.11 g (wet)

Prepared: 07-Nov-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	6.55	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:33

SO-TC-112B-110619
19K0092-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/06/2019 15:30

Instrument: ICP2 Analyst: TCH

Analyzed: 11/12/2019 19:00

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19K0092-02 A 03

Preparation Batch: BHK0271

Sample Size: 25 mL (wet)

Prepared: 12-Nov-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0563	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.288	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:33

SO-TC-112B-110619
19K0092-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/06/2019 15:30

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/07/2019 13:14

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19K0092-02 A

Preparation Batch: BHK0172

Sample Size: 20.74 g (wet)

Prepared: 07-Nov-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.43	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:33

SO-TC-112C-110619
19K0092-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/06/2019 15:45

Instrument: ICP2 Analyst: TCH

Analyzed: 11/12/2019 19:04

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19K0092-03 A 03

Preparation Batch: BHK0271

Sample Size: 25 mL (wet)

Prepared: 12-Nov-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0481	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.328	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:33

SO-TC-112C-110619
19K0092-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/06/2019 15:45

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/07/2019 13:14

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19K0092-03 A

Preparation Batch: BHK0172

Sample Size: 20.51 g (wet)

Prepared: 07-Nov-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.55	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:33

TCLP Metals and Metallic Compounds - Quality Control

Batch BHK0271 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHK0271-BLK1)					Prepared: 12-Nov-2019 Analyzed: 12-Nov-2019 18:55				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:33

Wet Chemistry - Quality Control

Batch BHK0172 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BHK0172-BS1)					Prepared: 07-Nov-2019 Analyzed: 07-Nov-2019 13:14				
pH	6.95	0.01	0.01	pH Units	7.00	99.3	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:33

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Nov-2019 12:33

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: ONE DATA PACKAGE FOR YOUR REVIEW AND APPROVAL

From David Bosch <DBosch@tpchd.org>

Date Wed 11/20/2019 11:22 AM

To jking perc-nw.com <jking@perc-nw.com>

Cc kking perc-nw.com <kking@perc-nw.com>; Bg (grimstedb@uspioneer.com) <grimstedb@uspioneer.com>

Jeff,

The Tacoma-Pierce County Health Department has reviewed the data package dated November 20, 2019. The waste characterizations of the soils associated with batches SO-TC-113B-111319 and SO-TC-113C-111319 are acceptable for disposal at the LRI Landfill.

The Health Department understands, as stated in your email below, that soils associated with batch SO-TC-113A-111319 will be reprocessed and retested.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: jking perc-nw.com <jking@perc-nw.com>

Sent: Wednesday, November 20, 2019 9:59 AM

To: David Bosch <DBosch@tpchd.org>

Cc: kking perc-nw.com <kking@perc-nw.com>; Bg (grimstedb@uspioneer.com) <grimstedb@uspioneer.com>

Subject: ONE DATA PACKAGE FOR YOUR REVIEW AND APPROVAL

David:

Attached is a data package for your review and approval. WE ARE NOT ASKING FOR PERMISSION TO DISPOSE OF THE SOILS RELATED TO SAMPLE SO-TC-113A-111319. This soil, along with ¼ of SO-TC-113B-111319, have been returned to treatment and are being reprocessed. I included the data on the table below for completeness.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-113A-111319	0.197	26.8	8.08
SO-TC-113B-111319	0.635	2.89	8.29
SO-TC-113C-111319	0.354	1.45	8.57

Thanks
Jeff

Jeffrey D. King, P.G./L.G.
Principal Geologist/President
Pacific Environmental & Redevelopment Corporation (PERC)
8424 E Meadow Lake Drive
Snohomish, WA 98290
United States of America
425-238-2212
jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

20 November 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19K0192

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 19K0192		Turn-around Requested: 3 Day		Date: 11/13/2019		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)								
ARI Client Company: PERC		Phone: 425-346-0921		Page: of										
Client Contact: Kenny King				No. of Coolers: 0 Cooler Temps: 22.0										
Client Project Name: Superlon Plastics				Analysis Requested								Notes/Comments		
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-113A-111319	11/13/19	9:10	Soil	1	✓	✓								
SO-TC-113B-111319	11/13/19	9:20	Soil	1	✓	✓								
SO-TC-113C-111319	11/13/19	9:30	Soil	1	✓	✓								
Comments/Special Instructions		Relinquished by:		Received by:		Relinquished by:		Received by:						
		(Signature)		(Signature)		(Signature)		(Signature)						
		Printed Name: JEFF KING		Printed Name: Kenny Dang		Printed Name:		Printed Name:						
		Company: PERC		Company: ARI		Company:		Company:						
		Date & Time: 11/13/19 4:10pm		Date & Time: 11/13/19 1610		Date & Time:		Date & Time:						

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2019 09:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-113A-111319	19K0192-01	Solid	13-Nov-2019 09:10	13-Nov-2019 16:10
SO-TC-113B-111319	19K0192-02	Solid	13-Nov-2019 09:20	13-Nov-2019 16:10
SO-TC-113C-111319	19K0192-03	Solid	13-Nov-2019 09:30	13-Nov-2019 16:10



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2019 09:33

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 19K0192

Sample receipt

Samples as listed on the preceding page were received November 13, 2019 under ARI work order 19K0192. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample SO-TC- 113A-111319 (ARI 19K0192-01) in analytical batch BHK0430. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

Sample specific QC was performed in association with sample SO-TC- 113A-111319 (ARI 19K0192-01) in analytical batch BHK0380. The duplicate RPD and matrix spike percent recoveries were within control limits.



Cooler Temperature Compliance Form

ARI Work Order: 19K0192

Cooler#: ① Temperature(°C): 22.0

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: KD

Date: 11/13/19

Time: 1610

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Super Ion Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other _____

Assigned ARI Job No. 19K0192

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES (NO)

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2 0-6 0 °C for chemistry)

Time 1610 22.0

If cooler temperature is out of compliance fill out form D0070F

Temp Gun ID#: D005206

Cooler Accepted by: KD Date: 11/13/19 Time: 1610

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs (Baggies) Foam Block Paper Other _____

Was sufficient ice used (if appropriate)? NA YES (NO)

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: KD Date: 11/13/19 Time: 1633 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2019 09:33

SO-TC-113A-111319
19K0192-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/13/2019 09:10

Instrument: ICP2 Analyst: TCH

Analyzed: 11/15/2019 13:41

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19K0192-01 A 02

Preparation Batch: BHK0380

Sample Size: 25 mL (wet)

Prepared: 15-Nov-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.197	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	26.8	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2019 09:33

SO-TC-113A-111319
19K0192-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/13/2019 09:10

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 11/17/2019 23:04

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19K0192-01 A

Preparation Batch: BHK0430

Sample Size: 20 g (wet)

Prepared: 17-Nov-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.08	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2019 09:33

SO-TC-113B-111319
19K0192-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/13/2019 09:20

Instrument: ICP2 Analyst: TCH

Analyzed: 11/15/2019 13:27

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19K0192-02 A 02

Preparation Batch: BHK0380

Sample Size: 25 mL (wet)

Prepared: 15-Nov-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.635	mg/L	
Lead	7439-92-1	5	0.0065	0.100	2.89	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2019 09:33

SO-TC-113B-111319
19K0192-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/13/2019 09:20

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 11/17/2019 23:04

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19K0192-02 A

Preparation Batch: BHK0430

Sample Size: 20 g (wet)

Prepared: 17-Nov-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.29	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2019 09:33

SO-TC-113C-111319
19K0192-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/13/2019 09:30

Instrument: ICP2 Analyst: TCH

Analyzed: 11/15/2019 13:31

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19K0192-03 A 02

Preparation Batch: BHK0380

Sample Size: 25 mL (wet)

Prepared: 15-Nov-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.354	mg/L	
Lead	7439-92-1	5	0.0065	0.100	1.45	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2019 09:33

SO-TC-113C-111319
19K0192-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/13/2019 09:30

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 11/17/2019 23:04

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19K0192-03 A

Preparation Batch: BHK0430

Sample Size: 20 g (wet)

Prepared: 17-Nov-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.57	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2019 09:33

TCLP Metals and Metallic Compounds - Quality Control

Batch BHK0380 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BHK0380-BLK1)						Prepared: 15-Nov-2019 Analyzed: 15-Nov-2019 13:22					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BHK0380-DUP1)						Source: 19K0192-01 Prepared: 15-Nov-2019 Analyzed: 15-Nov-2019 13:36					
Arsenic	0.200	0.0140	0.250	mg/L		0.197			1.82	20	J
Lead	26.5	0.0065	0.100	mg/L		26.8			1.10	20	
Matrix Spike (BHK0380-MS1)						Source: 19K0192-01 Prepared: 15-Nov-2019 Analyzed: 15-Nov-2019 13:45					
Arsenic	4.68	0.0140	0.250	mg/L	4.00	0.197	112	75-125			
Lead	32.1	0.0065	0.100	mg/L	4.00	26.8	131	75-125			HC

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2019 09:33

Wet Chemistry - Quality Control

Batch BHK0430 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BHK0430-BS1)										
					Prepared: 17-Nov-2019 Analyzed: 17-Nov-2019 23:04					
pH	7.03	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BHK0430-DUP1)										
					Source: 19K0192-01 Prepared: 17-Nov-2019 Analyzed: 17-Nov-2019 23:04					
pH	8.11	0.01	0.01	pH Units	8.08			0.37	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2019 09:33

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2019 09:33

Notes and Definitions

D	The reported value is from a dilution
HC	The natural concentration of the spiked analyte is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: TWO DATA PACKAGES FOR YOUR REVIEW

From David Bosch <DBosch@tpchd.org>

Date Wed 12/4/2019 1:37 PM

To jking perc-nw.com <jking@perc-nw.com>

Cc kking perc-nw.com <kking@perc-nw.com>; Bg (grimstedb@uspioneer.com) <grimstedb@uspioneer.com>

Jeff,

The Health Department has reviewed the data packages dated November 27 and December 4, 2019. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: jking perc-nw.com <jking@perc-nw.com>

Sent: Wednesday, December 4, 2019 12:37 PM

To: David Bosch <DBosch@tpchd.org>

Cc: kking perc-nw.com <kking@perc-nw.com>; Bg (grimstedb@uspioneer.com) <grimstedb@uspioneer.com>

Subject: TWO DATA PACKAGES FOR YOUR REVIEW

David:

Attached are two data packages for your review and approval. The following table lists the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-114A-112119	0.12	0.0164	9.32
SO-TC-114B-112119	0.0978	0.0074	8.09
SO-TC-114C-112119	0.107	0.0117	8.79
SO-TC-115A-112619	0.125	0.0084	9.17
SO-TC-115B-112619	0.106	0.0234	9.15
SO-TC-115C-112619	0.0917	ND	9.22

Thank you

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

27 November 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19K0333

Associated SDG ID(s)
N/A

Susan Dunnihoo

Digitally signed by Susan Dunnihoo
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., cn=Susan
Dunnihoo, email=sue.dunnihoo@arilabs.com
Date: 2019.11.27 13:24:56 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19K0333		Turn-around Requested: 3 Day		Date: 11/21/2019		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of					
Client Contact: Kenny King		No. of Coolers: 0		Cooler Temps: 14.5					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		pH 9045C			
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-114A-112119	11/21/19	13:00	Soil	1	✓	✓			
SO-TC-114B-112119	11/21/19	13:15	Soil	1	✓	✓			
SO-TC-114C-112119	11/21/19	13:30	Soil	1	✓	✓			
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Kenny Dang</i>		Relinquished by: (Signature)		Received by: (Signature)	
		Printed Name: <i>Kenny King</i>		Printed Name: <i>Kenny Dang</i>		Printed Name:		Printed Name:	
		Company: <i>PERC</i>		Company: <i>ARI</i>		Company:		Company:	
		Date & Time: <i>11/21/19 14:15</i>		Date & Time: <i>11/21/19 14:15</i>		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2019 13:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-114A-112119	19K0333-01	Solid	21-Nov-2019 13:00	21-Nov-2019 14:15
SO-TC-114B-112119	19K0333-02	Solid	21-Nov-2019 13:15	21-Nov-2019 14:15
SO-TC-114C-112119	19K0333-03	Solid	21-Nov-2019 13:30	21-Nov-2019 14:15



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2019 13:22

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 19K0333

Sample receipt

Samples as listed on the preceding page were received November 21, 2019 under ARI work order 19K0333. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): NA
Assigned ARI Job No: 19K0333

Project Name: Superlon plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA
Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1415 14.5
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO 5206

Cooler Accepted by: KO Date: 11/21/19 Time: 1415

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: C. R. R. Date: 11/21/19 Time: 1443 Labels checked by: CJR

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

ARI Work Order: 19K0333

Cooler#: Ø Temperature(°C): 14.5

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: KD

Date: 11/21/19

Time: 1415

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2019 13:22

SO-TC-114A-112119
19K0333-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/21/2019 13:00

Instrument: ICP2 Analyst: TCH

Analyzed: 11/26/2019 14:46

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19K0333-01 A 02

Preparation Batch: BHK0721

Sample Size: 25 mL (wet)

Prepared: 26-Nov-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.120	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0164	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2019 13:22

SO-TC-114A-112119
19K0333-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/21/2019 13:00

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 11/24/2019 22:33

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19K0333-01 A

Preparation Batch: BHK0669

Sample Size: 20 g (wet)

Prepared: 24-Nov-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.32	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2019 13:22

SO-TC-114B-112119
19K0333-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/21/2019 13:15

Instrument: ICP2 Analyst: TCH

Analyzed: 11/26/2019 14:51

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19K0333-02 A 02

Preparation Batch: BHK0721

Sample Size: 25 mL (wet)

Prepared: 26-Nov-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0978	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0074	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2019 13:22

SO-TC-114B-112119
19K0333-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/21/2019 13:15

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 11/24/2019 22:33

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19K0333-02 A

Preparation Batch: BHK0669

Sample Size: 20 g (wet)

Prepared: 24-Nov-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.09	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2019 13:22

SO-TC-114C-112119
19K0333-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/21/2019 13:30

Instrument: ICP2 Analyst: TCH

Analyzed: 11/26/2019 14:55

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19K0333-03 A 02

Preparation Batch: BHK0721

Sample Size: 25 mL (wet)

Prepared: 26-Nov-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.107	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0117	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2019 13:22

SO-TC-114C-112119
19K0333-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/21/2019 13:30

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 11/24/2019 22:33

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19K0333-03 A

Preparation Batch: BHK0669

Sample Size: 20 g (wet)

Prepared: 24-Nov-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.79	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2019 13:22

TCLP Metals and Metallic Compounds - Quality Control

Batch BHK0721 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHK0721-BLK1)					Prepared: 26-Nov-2019 Analyzed: 26-Nov-2019 15:14				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2019 13:22

Wet Chemistry - Quality Control

Batch BHK0669 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BHK0669-BS1)					Prepared: 24-Nov-2019		Analyzed: 24-Nov-2019 22:33			
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BHK0669-DUP1)					Source: 19K0333-01		Prepared: 24-Nov-2019		Analyzed: 24-Nov-2019 22:33	
pH	9.36	0.01	0.01	pH Units		9.32		0.43	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2019 13:22

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Nov-2019 13:22

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

04 December 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19K0411

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19K0411		Turn-around Requested: 3 Day			Date: 11/26/2019			 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 425-346-0921			Page: of										
Client Contact: Kenny King					No. of Coolers: 1 Cooler Temps: 11.8°C										
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments			
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C									
Sample ID	Date	Time	Matrix	No. Containers											
SO-TC-115A-112619	11/26/19	14:15	Soil	1	✓	✓									
SO-TC-115B-112619	11/26/19	14:30	Soil	1	✓	✓									
SO-TC-115C-112619	11/26/19	14:45	Soil	1	✓	✓									
Comments/Special Instructions		Relinquished by:			Received by:			Relinquished by:			Received by:				
		(Signature) <i>Kenny King</i>			(Signature) <i>Jacob Walter</i>			(Signature)			(Signature)				
		Printed Name: Kenny King			Printed Name: Jacob Walter			Printed Name:			Printed Name:				
		Company: PERC			Company: ARI			Company:			Company:				
		Date & Time: 11/26/2019 16:22			Date & Time: 11/26/19 1622			Date & Time:			Date & Time:				

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2019 12:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-115A-112619	19K0411-01	Solid	26-Nov-2019 14:15	26-Nov-2019 16:22
SO-TC-115B-112619	19K0411-02	Solid	26-Nov-2019 14:30	26-Nov-2019 16:22
SO-TC-115C-112619	19K0411-03	Solid	26-Nov-2019 14:45	26-Nov-2019 16:22



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2019 12:16

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 19K0411

Sample receipt

Samples as listed on the preceding page were received November 26, 2019 under ARI work order 19K0411. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 19K0411-01 in batch BHL0001. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 19K0411

Tracking No. _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES (NO)

Were custody papers included with the cooler? _____

YES (NO)

Were custody papers properly filled out (ink, signed, etc.) _____

YES (NO)

Temperature of Cooler(s) (°C) (recommended 2 0-6 0 °C for chemistry)

Time 1600

11.8°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by JBL

Date: 11/26/19

Time: 1600

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES (NO)

What kind of packing material was used? _____ Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES (NO)

How were bottles sealed in plastic bags? _____

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

(NA) YES NO

Were all VOC vials free of air bubbles? _____

(NA) YES NO

Was sufficient amount of sample sent in each bottle? _____

(NA) YES NO

Date VOC Trip Blank was made at ARI: _____

(NA)

Were the sample(s) split by ARI? (NA)

YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: KD

Date: 11/26/19

Time 1713

Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: TH Date: 11/26/19 Time: 1622

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2019 12:16

SO-TC-115A-112619
19K0411-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/26/2019 14:15

Instrument: ICP2 Analyst: TCH

Analyzed: 12/03/2019 16:31

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19K0411-01 A 02

Preparation Batch: BHL0031

Sample Size: 25 mL (wet)

Prepared: 03-Dec-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.125	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0084	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2019 12:16

SO-TC-115A-112619
19K0411-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/26/2019 14:15

Instrument: Accumet AB150 Analyst: UW

Analyzed: 12/01/2019 19:58

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19K0411-01 A

Preparation Batch: BHL0001

Sample Size: 20 g (wet)

Prepared: 01-Dec-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.17	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2019 12:16

SO-TC-115B-112619
19K0411-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/26/2019 14:30

Instrument: ICP2 Analyst: TCH

Analyzed: 12/03/2019 16:35

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19K0411-02 A 02

Preparation Batch: BHL0031

Sample Size: 25 mL (wet)

Prepared: 03-Dec-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.106	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0234	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2019 12:16

SO-TC-115B-112619
19K0411-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/26/2019 14:30

Instrument: Accumet AB150 Analyst: UW

Analyzed: 12/01/2019 19:58

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19K0411-02 A

Preparation Batch: BHL0001

Sample Size: 20 g (wet)

Prepared: 01-Dec-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.15	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2019 12:16

SO-TC-115C-112619
19K0411-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/26/2019 14:45

Instrument: ICP2 Analyst: TCH

Analyzed: 12/03/2019 16:40

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19K0411-03 A 02

Preparation Batch: BHL0031

Sample Size: 25 mL (wet)

Prepared: 03-Dec-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0917	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2019 12:16

SO-TC-115C-112619
19K0411-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/26/2019 14:45

Instrument: Accumet AB150 Analyst: UW

Analyzed: 12/01/2019 19:58

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19K0411-03 A

Preparation Batch: BHL0001

Sample Size: 20 g (wet)

Prepared: 01-Dec-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.22	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2019 12:16

TCLP Metals and Metallic Compounds - Quality Control

Batch BHL0031 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHL0031-BLK1)					Prepared: 03-Dec-2019 Analyzed: 03-Dec-2019 16:26				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2019 12:16

Wet Chemistry - Quality Control

Batch BHL0001 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BHL0001-BS1)						Prepared: 01-Dec-2019 Analyzed: 01-Dec-2019 19:58					
pH	6.96	0.01	0.01	pH Units	7.00		99.4	99.2-100.8			
Duplicate (BHL0001-DUP1)						Source: 19K0411-01 Prepared: 01-Dec-2019 Analyzed: 01-Dec-2019 19:58					
pH	9.22	0.01	0.01	pH Units		9.17			0.54	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2019 12:16

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2019 12:16

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: one data package for your review and approval

From David Bosch <DBosch@tpchd.org>
Date Thu 12/12/2019 7:35 AM
To jking perc-nw.com <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Jeff,

The Tacoma-Pierce County Health Department has reviewed the data set dated December 10, 2019. The soils associated with this waste characterization are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: jking perc-nw.com <jking@perc-nw.com>
Sent: Wednesday, December 11, 2019 8:52 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: one data package for your review and approval

David:

Attached is one data package for your review and approval. Each sample represents approximately 22 CY of soil.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-116A-120419	0.0551	0.0103	9.13
SO-TC-116B-120419	0.061	0.01	8.96
SO-TC-116C-120419	0.101	0.0091	9.24

Thanks

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive
Snohomish, WA 98290
United States of America
425-238-2212
jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

10 December 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19L0058

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

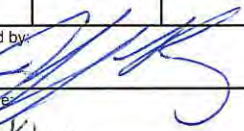
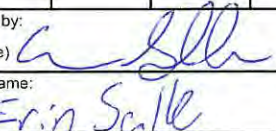
Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19L0058		Turn-around Requested: 3 Day		Date: 12/4/2019		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 425-346-0921		Page: of									
Client Contact: Kenny King				No. of Coolers: 1 Cooler Temps: 16.8									
Client Project Name: Superlon Plastics				Analysis Requested						Notes/Comments			
Client Project #: SLON		Samplers: King											
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C							
SO-TC-116A-120419	12/04/19	11:15	Soil	1	✓	✓							
SO-TC-116B-120419	12/04/19	11:30	Soil	1	✓	✓							
SO-TC-116C-120419	12/04/19	11:45	Soil	1	✓	✓							
Comments/Special Instructions				Relinquished by:  (Signature)		Received by:  (Signature)		Relinquished by: (Signature)		Received by: (Signature)			
				Printed Name: Jeff King		Printed Name: Erin Seale		Printed Name:		Printed Name:			
				Company: PERC		Company: ARI		Company:		Company:			
				Date & Time: 12/4/2019 4:08P		Date & Time: 12/4/19 1608		Date & Time:		Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSSDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Dec-2019 11:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-116A-120419	19L0058-01	Solid	04-Dec-2019 11:15	04-Dec-2019 16:08
SO-TC-116B-120419	19L0058-02	Solid	04-Dec-2019 11:30	04-Dec-2019 16:08
SO-TC-116C-120419	19L0058-03	Solid	04-Dec-2019 11:45	04-Dec-2019 16:08



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Dec-2019 11:48

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 19L0058

Sample receipt

Samples as listed on the preceding page were received 04-Dec-2019 16:08 under ARI work order 19L0058. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 19L.058-01 in batch BHL0195. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

Sample specific QC was run in association with sample 19L0058-01 in batch BHL0148. The duplicate RPD and matrix spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No 19L0058

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time _____

16.8

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO2563

Cooler Accepted by ASL

Date: 12/4/19

Time: 1608

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? _____ Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other NA

Was sufficient ice used (if appropriate)? _____

NA YES NO

How were bottles sealed in plastic bags? _____

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) _____

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI _____

NA

Were the sample(s) split by ARI? NA

YES

Date/Time: _____

Equipment: _____

Split by _____

Samples Logged by ASL Date: 12/4/19 Time 1640 Labels checked by CS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 19L0058

Cooler#:

Temperature(°C): 16.8

Sample ID

Bottle Count

Bottle Type

Samples Above 6°C

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Completed by: [Signature]

Date: 12/4/19

Time: 1608

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Dec-2019 11:48

SO-TC-116A-120419
19L0058-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 12/04/2019 11:15

Instrument: ICP2 Analyst: MCB

Analyzed: 12/09/2019 12:41

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19L0058-01 A 02

Preparation Batch: BHL0148

Sample Size: 25 mL (wet)

Prepared: 06-Dec-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0551	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0103	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Dec-2019 11:48

SO-TC-116A-120419
19L0058-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/04/2019 11:15

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 12/08/2019 22:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19L0058-01 A

Preparation Batch: BHL0195

Sample Size: 20.07 g (wet)

Prepared: 08-Dec-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.13	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Dec-2019 11:48

SO-TC-116B-120419
19L0058-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 12/04/2019 11:30

Instrument: ICP2 Analyst: MCB

Analyzed: 12/09/2019 12:04

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19L0058-02 A 02

Preparation Batch: BHL0148

Sample Size: 25 mL (wet)

Prepared: 06-Dec-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0610	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0100	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Dec-2019 11:48

SO-TC-116B-120419
19L0058-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/04/2019 11:30

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 12/08/2019 22:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19L0058-02 A

Preparation Batch: BHL0195

Sample Size: 20.16 g (wet)

Prepared: 08-Dec-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.96	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Dec-2019 11:48

SO-TC-116C-120419
19L0058-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 12/04/2019 11:45

Instrument: ICP2 Analyst: MCB

Analyzed: 12/09/2019 12:09

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19L0058-03 A 02

Preparation Batch: BHL0148

Sample Size: 25 mL (wet)

Prepared: 06-Dec-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.101	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0091	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Dec-2019 11:48

SO-TC-116C-120419
19L0058-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/04/2019 11:45

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 12/08/2019 22:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19L0058-03 A

Preparation Batch: BHL0195

Sample Size: 20.18 g (wet)

Prepared: 08-Dec-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.24	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Dec-2019 11:48

TCLP Metals and Metallic Compounds - Quality Control

Batch BHL0148 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BHL0148-BLK1)						Prepared: 06-Dec-2019 Analyzed: 09-Dec-2019 11:46					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	0.0096	0.0065	0.100	mg/L							J
Duplicate (BHL0148-DUP1)						Source: 19L0058-01 Prepared: 06-Dec-2019 Analyzed: 09-Dec-2019 12:37					
Arsenic	0.0726	0.0140	0.250	mg/L		0.0551			27.30	20	L, J
Lead	0.0131	0.0065	0.100	mg/L		0.0103			24.30	20	L, J
Matrix Spike (BHL0148-MS1)						Source: 19L0058-01 Prepared: 06-Dec-2019 Analyzed: 09-Dec-2019 12:46					
Arsenic	4.44	0.0140	0.250	mg/L	4.00	0.0551	110	75-125			
Lead	4.20	0.0065	0.100	mg/L	4.00	0.0103	105	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Dec-2019 11:48

Wet Chemistry - Quality Control

Batch BHL0195 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BHL0195-BS1)										
						Prepared: 08-Dec-2019 Analyzed: 08-Dec-2019 22:38				
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BHL0195-DUP1)										
		Source: 19L0058-01				Prepared: 08-Dec-2019 Analyzed: 08-Dec-2019 22:38				
pH	9.18	0.01	0.01	pH Units	9.13			0.55	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Dec-2019 11:48

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Dec-2019 11:48

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Two single sample data sheets for your consideration and approval

From David Bosch <DBosch@tpchd.org>

Date Wed 12/18/2019 8:13 AM

To jking perc-nw.com <jking@perc-nw.com>

Cc kking perc-nw.com <kking@perc-nw.com>; Hannah Briley <BrileyH@uspioneer.com>; Bg (grimstedb@uspioneer.com) <grimstedb@uspioneer.com>

Good morning Jeff,

The Tacoma-Pierce County Health Department has reviewed the data sets dated December 13 and December 17, 2019. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: jking perc-nw.com <jking@perc-nw.com>

Sent: Tuesday, December 17, 2019 3:34 PM

To: David Bosch <DBosch@tpchd.org>

Cc: kking perc-nw.com <kking@perc-nw.com>; Hannah Briley <BrileyH@uspioneer.com>; Bg (grimstedb@uspioneer.com) <grimstedb@uspioneer.com>

Subject: Two single sample data sheets for your consideration and approval

David:

Attached are two single sample data sheets for your consideration and approval. As usual each sample represents approximately 22 CY of soil.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-117A-120919	0.0547	0.0125	9.37
SO-TC-117B-121119	0.0316	ND	4.99

Thanks

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President
Pacific Environmental & Redevelopment Corporation (PERC)
8424 E Meadow Lake Drive
Snohomish, WA 98290
United States of America
425-238-2212
jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

13 December 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19L0139

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19L039	Turn-around Requested: 3 Day
---------------------------------------	-------------------------------------

ARI Client Company: PERC	Phone: 425-346-0921
------------------------------------	----------------------------

Client Contact: Kenny King

Client Project Name: Superlon Plastics
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Client Project #: SLON	Samplers: King
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Sample ID	Date	Time	Matrix	No. Containers
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SO-TC-117A-120919	12/09/19	15:30	Soil	1
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Comments/Special Instructions	Relinquished by: (Signature) Kenny King	Received by: (Signature) Erin Scillo
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	Printed Name: Kenny King	Printed Name: Erin Scillo
--	------------------------------------	-------------------------------------

	Company: PERC	Company: ARI
--	-------------------------	------------------------

	Date & Time: 12/9/2019 16:38	Date & Time: 12/9/19 1638
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Date: 12/9/2019

Page: of

No. of Coolers: 1	Cooler Temps: 17.9
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Analysis Requested							
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TCLP 1311 As/Pb Only	pH 9045C						
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Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Dec-2019 14:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-117A-120919	19L0139-01	Solid	09-Dec-2019 15:30	09-Dec-2019 16:38



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Dec-2019 14:36

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 19L0139

Sample receipt

One sample as listed on the preceding page was received December 9, 2019 under ARI work order 19L0139. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 19L0139-01 in batch BHL0290. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: BERC

Project Name: Superlon Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 1910139

Tracking No _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES ☒ NO ☒

Were custody papers included with the cooler? _____

YES ☒ NO ☐

Were custody papers properly filled out (ink, signed, etc.) _____

YES ☒ NO ☐

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time _____

17.9

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOC5206

Cooler Accepted by: [Signature] Date: 12/19/19 Time: 1638

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES ☐ NO ☒

What kind of packing material was used? _____ Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? _____

NA ☒ YES ☐ NO ☐

How were bottles sealed in plastic bags? _____

Individually ☒ Grouped ☐ Not ☐

Did all bottles arrive in good condition (unbroken)? _____

YES ☒ NO ☐

Were all bottle labels complete and legible? _____

YES ☒ NO ☐

Did the number of containers listed on COC match with the number of containers received? _____

YES ☒ NO ☐

Did all bottle labels and tags agree with custody papers? _____

YES ☒ NO ☐

Were all bottles used correct for the requested analyses? _____

YES ☒ NO ☐

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA ☒ YES ☐ NO ☐

Were all VOC vials free of air bubbles? _____

NA ☒ YES ☐ NO ☐

Was sufficient amount of sample sent in each bottle? _____

YES ☒ NO ☐

Date VOC Trip Blank was made at ARI: _____

NA ☒

Were the sample(s) split by ARI? ☒ NA YES ☐ Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: [Signature] Date: 12/19/19 Time: 1710 Labels checked by: [Signature]

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 19L0139

Cooler#: _____ Temperature(°C): 17.9

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

<u>Samples above 6°C</u>		

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by [Signature]

Date: 12/9/19 Time: 1638



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Dec-2019 14:36

SO-TC-117A-120919
19L0139-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 12/09/2019 15:30

Instrument: ICP2 Analyst: TCH

Analyzed: 12/13/2019 10:50

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19L0139-01 A 03

Preparation Batch: BHL0284

Sample Size: 25 mL (wet)

Prepared: 11-Dec-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0547	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0125	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Dec-2019 14:36

SO-TC-117A-120919
19L0139-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/09/2019 15:30

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 12/11/2019 11:30

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 19L0139-01 A 02

Preparation Batch: BHL0290

Sample Size: 20.41 g (wet)

Prepared: 11-Dec-2019

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.37	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Dec-2019 14:36

TCLP Metals and Metallic Compounds - Quality Control

Batch BHL0284 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BHL0284-BLK1)					Prepared: 11-Dec-2019 Analyzed: 13-Dec-2019 10:41				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Dec-2019 14:36

Wet Chemistry - Quality Control

Batch BHL0290 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BHL0290-BS1)										
						Prepared: 11-Dec-2019 Analyzed: 11-Dec-2019 11:30				
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8			
Duplicate (BHL0290-DUP1)										
		Source: 19L0139-01				Prepared: 11-Dec-2019 Analyzed: 11-Dec-2019 11:30				
pH	9.41	0.009	0.009	pH Units	9.37			0.43	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Dec-2019 14:36

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Dec-2019 14:36

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

17 December 2019

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19L0175

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 19L0175		Turn-around Requested: 3 Day		Date: 12/11/2019								
ARI Client Company: PERC		Phone: 425-346-0921		Page: of								
Client Contact: Kenny King		No. of Coolers: 2		Cooler Temps: 19.3°C								
Client Project Name: Superlon Plastics		Analysis Requested				Notes/Comments						
Client Project #: SLON												
Samplers: King		TCLP 1311 As/Pb Only	pH 9045C									
Sample ID	Date			Time	Matrix	No. Containers						
SO-TC-117B-121119	12/11/19	10:30	Soil	1	✓	✓						
Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>[Signature]</i>		Relinquished by: (Signature)		Received by: (Signature)					
	Printed Name: Kenny King		Printed Name: Jacob Walter		Printed Name:		Printed Name:					
	Company: PERC		Company: ARC		Company:		Company:					
	Date & Time: 12/11/2019 11:35		Date & Time: 12/11/19 1135		Date & Time:		Date & Time:					



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Dec-2019 14:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-117B-121119	19L0175-01	Solid	11-Dec-2019 10:30	11-Dec-2019 11:35



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Dec-2019 14:59

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 19L0175

Sample receipt

One sample as listed on the preceding page was received December 11, 2019 under ARI work order 19L0175. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 19L0175-01 in batch BHL0363. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No. 19L0175

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1135 19.5°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# DOO 5306

Cooler Accepted by JS Date: 12/11/19 Time: 1135

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? NA YES NO

Date VOC Trip Blank was made at ARI NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: JS Date: 12/11/19 Time: 1150 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Dec-2019 14:59

SO-TC-117B-121119
19L0175-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 12/11/2019 10:30

Instrument: ICP2 Analyst: TCH

Analyzed: 12/16/2019 15:39

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 19L0175-01 A 02

Preparation Batch: BHL0374

Sample Size: 25 mL (wet)

Prepared: 13-Dec-2019

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0316	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Dec-2019 14:59

SO-TC-117B-121119
19L0175-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/11/2019 10:30

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 12/12/2019 20:22

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 19L0175-01 A

Preparation Batch: BHL0363

Sample Size: 20.01 g (wet)

Prepared: 12-Dec-2019

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	4.99	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Dec-2019 14:59

TCLP Metals and Metallic Compounds - Quality Control

Batch BHL0374 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BHL0374-BLK1)						Prepared: 13-Dec-2019 Analyzed: 16-Dec-2019 15:35					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Dec-2019 14:59

Wet Chemistry - Quality Control

Batch BHL0363 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BHL0363-BS1)										
						Prepared: 12-Dec-2019 Analyzed: 12-Dec-2019 20:22				
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BHL0363-DUP1)										
		Source: 19L0175-01				Prepared: 12-Dec-2019 Analyzed: 12-Dec-2019 20:22				
pH	5.03	0.01	0.01	pH Units	4.99			0.80	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Dec-2019 14:59

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Dec-2019 14:59

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Two data Packages for your review and approval

From David Bosch <DBosch@tpchd.org>
Date Thu 3/5/2020 8:38 AM
To jking perc-nw.com <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Jeff,

Welcome back! I'll look forward in receiving your WDA application next month for coverage for another year.

The Tacoma-Pierce County Health Department has received the two data packages dated February 12 and March 3, 2020. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: jking perc-nw.com <jking@perc-nw.com>
Sent: Tuesday, March 3, 2020 3:05 PM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: Two data Packages for your review and approval

David:

Happy new Year. We are back at the Superlon Site for another field season and have two data packages for your review and approval. I noticed that our permit expires in April so I will be working toward getting you the information for another annual permit.

The following table presents the data and as usual each sample represents approximately 22 CY of soil.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-118A-012820	0.0207	ND	8.2
SO-TC-118B-012820	0.0272	ND	8.39
SO-TC-118C-012820	0.0739	0.013	8.48
SO-TC-119A-022620	0.0317	ND	9.57

SO-TC-119B-022620	0.0341	ND	9.49
SO-TC-119C-022620	0.0433	ND	9.55

My Best and thank you

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

12 February 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20A0364

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20A0364		Turn-around Requested: 10 Day			Date: 1/28/2020			 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 425-346-0921			Page: of										
Client Contact: Kenny King					No. of Coolers: 1 Cooler Temps: 60										
Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments		
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C									
Sample ID	Date	Time	Matrix	No. Containers											
SO-TC-118A-012820	01/28/20	10:30	Soil	1	✓	✓									
SO-TC-118B-012820	01/28/20	10:40	Soil	1	✓	✓									
SO-TC-118C-012820	01/28/20	10:50	Soil	1	✓	✓									
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Erin Scalle</i>			Relinquished by: (Signature)			Received by: (Signature)	
					Printed Name: Kenny King			Printed Name: Erin Scalle			Printed Name:			Printed Name:	
					Company: PERC			Company: ARI			Company:			Company:	
					Date & Time: 1/28/2020 16:39			Date & Time: 1/28/2020 1639			Date & Time:			Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Feb-2020 14:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-118A-012820	20A0364-01	Solid	28-Jan-2020 10:30	28-Jan-2020 16:39
SO-TC-118B-012820	20A0364-02	Solid	28-Jan-2020 10:40	28-Jan-2020 16:39
SO-TC-118C-012820	20A0364-03	Solid	28-Jan-2020 10:50	28-Jan-2020 16:39



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Feb-2020 14:37

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20A0364

Sample receipt

Samples as listed on the preceding page were received 28-Jan-2020 16:39 under ARI work order 20A0364. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20A0364-01 in batch BIB0148. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superdon Plastics

COC No(s): _____ NA

Delivered by Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 20A0364

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time _____

6.0

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# DD02245

Cooler Accepted by: [Signature]

Date 1/28/2020

Time 1639

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?

YES NO

What kind of packing material was used? ...

Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES NO

How were bottles sealed in plastic bags? _____

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI: _____

NA

Were the sample(s) spill
by ARI? NA

YES

Date/Time _____

Equipment: _____

Split by: _____

Samples Logged by: [Signature]

Date 1/28/2020

Time 1649

Labels checked by: [Signature]

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Feb-2020 14:37

SO-TC-118A-012820
20A0364-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 01/28/2020 10:30

Instrument: ICP2 Analyst: TCH

Analyzed: 02/05/2020 11:29

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20A0364-01 A 02

Preparation Batch: BIB0036

Sample Size: 25 mL (wet)

Prepared: 02/04/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0207	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Feb-2020 14:37

SO-TC-118A-012820
20A0364-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 01/28/2020 10:30

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 02/06/2020 20:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20A0364-01 A

Preparation Batch: BIB0148

Sample Size: 20.01 g (wet)

Prepared: 02/06/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.20	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Feb-2020 14:37

SO-TC-118B-012820
20A0364-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 01/28/2020 10:40

Instrument: ICP2 Analyst: TCH

Analyzed: 02/05/2020 11:34

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20A0364-02 A 02

Preparation Batch: BIB0036

Sample Size: 25 mL (wet)

Prepared: 02/04/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0272	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Feb-2020 14:37

SO-TC-118B-012820
20A0364-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 01/28/2020 10:40

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 02/06/2020 20:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20A0364-02 A

Preparation Batch: BIB0148

Sample Size: 20.05 g (wet)

Prepared: 02/06/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.39	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Feb-2020 14:37

SO-TC-118C-012820
20A0364-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 01/28/2020 10:50

Instrument: ICP2 Analyst: TCH

Analyzed: 02/05/2020 11:38

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20A0364-03 A 02

Preparation Batch: BIB0036

Sample Size: 25 mL (wet)

Prepared: 02/04/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0739	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0130	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Feb-2020 14:37

SO-TC-118C-012820
20A0364-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 01/28/2020 10:50

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 02/06/2020 20:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20A0364-03 A

Preparation Batch: BIB0148

Sample Size: 20.18 g (wet)

Prepared: 02/06/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.48	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Feb-2020 14:37

TCLP Metals and Metallic Compounds - Quality Control

Batch BIB0036 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BIB0036-BLK1)					Prepared: 04-Feb-2020 Analyzed: 05-Feb-2020 11:25					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Feb-2020 14:37

Wet Chemistry - Quality Control

Batch BIB0148 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIB0148-BS1)										
						Prepared: 06-Feb-2020 Analyzed: 06-Feb-2020 20:18				
pH	6.99	0.01	0.01	pH Units	7.00	99.9	99.2-100.8			
Duplicate (BIB0148-DUP1)										
		Source: 20A0364-01				Prepared: 06-Feb-2020 Analyzed: 06-Feb-2020 20:18				
pH	8.16	0.01	0.01	pH Units	8.20	0.49	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Feb-2020 14:37

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Feb-2020 14:37

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

03 March 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20B0307

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20B0307		Turn-around Requested: 3 Day		Date: 2/26/2020		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)		
ARI Client Company: PERC		Phone: 425-346-0921		Page: of				
Client Contact: Kenny King				No. of Coolers: 8 Cooler Temps: 15.0°C				
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments
Client Project #: SLON		Samplers: King						
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C		
SO-TC-119A-022620	02/26/20	11:15	Soil	1	✓	✓		
SO-TC-119B-022620	02/26/20	11:25	Soil	1	✓	✓		
SO-TC-119C-022620	02/26/20	11:35	Soil	1	✓	✓		
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>David Walter</i>		
				Printed Name: Kenny King		Printed Name: David Walter		
				Company: PERC		Company: ARI		
				Date & Time: 2/26/2020 12:43		Date & Time: 02/26/2020 1243		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Mar-2020 13:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-119A-022620	20B0307-01	Solid	26-Feb-2020 11:15	26-Feb-2020 12:43
SO-TC-119B-022620	20B0307-02	Solid	26-Feb-2020 11:25	26-Feb-2020 12:43
SO-TC-119C-022620	20B0307-03	Solid	26-Feb-2020 11:35	26-Feb-2020 12:43



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Mar-2020 13:25

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20B0307

Sample receipt

Samples as listed on the preceding page were received 26-Feb-2020 12:43 under ARI work order 20B0307. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): NA
Assigned ARI Job No. 20B0307

Project Name: Superlan Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1243 15.20
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID# DOO 5006
Cooler Accepted by: JS Date: 02/26/2020 Time: 1247

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped NO
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JS Date: 2/26/2020 Time: 1258 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 2080307

Cooler#: _____ Temperature(°C): 15.2°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received above 6°C

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: JS

Date: 02/26/2020 Time: 1243

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Mar-2020 13:25

SO-TC-119A-022620
20B0307-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 02/26/2020 11:15

Instrument: ICP2 Analyst: TCH

Analyzed: 03/02/2020 12:15

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20B0307-01 A 02

Preparation Batch: BIB0631

Sample Size: 25 mL (wet)

Prepared: 02/28/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0317	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Mar-2020 13:25

SO-TC-119A-022620
20B0307-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 02/26/2020 11:15

Instrument: Accumet AB150 Analyst: JM

Analyzed: 02/28/2020 14:25

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20B0307-01 A

Preparation Batch: BIB0643

Sample Size: 20.11 g (wet)

Prepared: 02/28/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.57	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Mar-2020 13:25

SO-TC-119B-022620
20B0307-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 02/26/2020 11:25

Instrument: ICP2 Analyst: TCH

Analyzed: 03/02/2020 12:19

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20B0307-02 A 02

Preparation Batch: BIB0631

Sample Size: 25 mL (wet)

Prepared: 02/28/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0341	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Mar-2020 13:25

SO-TC-119B-022620
20B0307-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 02/26/2020 11:25

Instrument: Accumet AB150 Analyst: JM

Analyzed: 02/28/2020 14:25

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20B0307-02 A

Preparation Batch: BIB0643

Sample Size: 21.1514 g (wet)

Prepared: 02/28/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	9.49	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Mar-2020 13:25

SO-TC-119C-022620
20B0307-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 02/26/2020 11:35

Instrument: ICP2 Analyst: TCH

Analyzed: 03/02/2020 12:24

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20B0307-03 A 02

Preparation Batch: BIB0631

Sample Size: 25 mL (wet)

Prepared: 02/28/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0433	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Mar-2020 13:25

SO-TC-119C-022620
20B0307-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 02/26/2020 11:35

Instrument: Accumet AB150 Analyst: JM

Analyzed: 02/28/2020 14:25

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20B0307-03 A

Preparation Batch: BIB0643

Sample Size: 20.9256 g (wet)

Prepared: 02/28/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.55	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Mar-2020 13:25

TCLP Metals and Metallic Compounds - Quality Control

Batch BIB0631 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BIB0631-BLK1)					Prepared: 28-Feb-2020 Analyzed: 02-Mar-2020 12:10					
Arsenic	0.0222	0.0140	0.250	mg/L						J
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Mar-2020 13:25

Wet Chemistry - Quality Control

Batch BIB0643 - EPA 9045D

Instrument: Accumet AB150 Analyst: JM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIB0643-BS1)					Prepared: 28-Feb-2020 Analyzed: 28-Feb-2020 14:25				
pH	6.95	0.01	0.01	pH Units	7.00	99.3	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Mar-2020 13:25

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Mar-2020 13:25

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Two data Packages for your approval

From David Bosch <DBosch@tpchd.org>
Date Tue 3/24/2020 8:25 AM
To jking perc-nw.com <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Good morning Jeff,

The TPCHD has reviewed the two data packages dated March 23, 2020. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill, with the exception of the soils associated with Sample **SO-TC-121A-031620**. The soils associated with this batch will be managed as described in your email below (i.e., reprocessed).

Thank you and have a nice day.

COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 798-6574 o • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: jking perc-nw.com <jking@perc-nw.com>
Sent: Monday, March 23, 2020 3:51 PM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: Two data Packages for your approval

David:

Attached are two data packages for your approval. Each sample represents approximately 22 CY.

We are not asking for approval of the soil associated with **SO-TC-121A-031620**. This soil, plus a third of the soils adjacent to it in the stockpile (SO-TC-121B-031620), will be retreated and sampled and, if treatment is successful, be submitted in the future.

Thank you
Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

This electronic mail transmission and any accompanying documents contain information belonging to the sender which may be confidential and legally privileged. This information is intended only for the use of the individual or entity to whom this electronic mail transmission was sent as indicated above. If you are not the intended recipient, any disclosure, copying, distribution, or action taken in reliance on the contents of the information contained in this transmission is strictly prohibited. If you have received this transmission in error, please notify the sender by return e-mail and delete the message. Thank you



Analytical Resources, Incorporated
Analytical Chemists and Consultants

23 March 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20C0201

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington,
l=Tukwila, o=Analytical Resources,
Inc., cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2020.03.23 12:29:20 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: <i>20C0201</i>	Turn-around Requested: 3 days	Date: 3/16/2020
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: <i>2</i> Cooler Temps: <i>20.9°C</i>



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-121A-031620	03/16/20	11:30	Soil	1	✓	✓							
SO-TC-121B-031620	03/16/20	11:45	Soil	1	✓	✓							
SO-TC-121C-031620	03/16/20	12:00	Soil	1	✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walter</i>		Relinquished by: (Signature)		Received by: (Signature)		
					Printed Name: Kenny King		Printed Name: Jacob Walter		Printed Name:		Printed Name:		
					Company: PERC		Company: ARI		Company:		Company:		
					Date & Time: 3/16/20 16:40		Date & Time: 03/16/2020 1640		Date & Time:		Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-121A-031620	20C0201-01	Solid	16-Mar-2020 11:30	16-Mar-2020 16:40
SO-TC-121B-031620	20C0201-02	Solid	16-Mar-2020 11:45	16-Mar-2020 16:40
SO-TC-121C-031620	20C0201-03	Solid	16-Mar-2020 12:00	16-Mar-2020 16:40



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:23

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20C0201

Sample receipt

Samples as listed on the preceding page were received 16-Mar-2020 16:40 under ARI work order 20C0201. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20C0201-01 in batch BIC0379. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlan Plastics

COC No(s): 20C0201 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 20C0201

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1640

20.9°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JSW

Date: 03/16/2020

Time: 1640

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JSW Date: 03/16/2020 Time: 1646 Labels checked by: JSW

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 20C0201

Cooler#: _____ Temperature(°C): 20.9°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: TSM Date: 03/16/2020 Time: 1640

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:23

SO-TC-121A-031620
20C0201-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 03/16/2020 11:30

Instrument: ICP2 Analyst: SKM

Analyzed: 03/19/2020 13:05

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20C0201-01 A 02

Preparation Batch: BIC0362

Sample Size: 25 mL (wet)

Prepared: 03/18/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.102	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	54.9	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:23

SO-TC-121A-031620
20C0201-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/16/2020 11:30

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 03/18/2020 19:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20C0201-01 A

Preparation Batch: BIC0379

Sample Size: 20.03 g (wet)

Prepared: 03/18/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.05	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:23

SO-TC-121B-031620
20C0201-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 03/16/2020 11:45

Instrument: ICP2 Analyst: SKM

Analyzed: 03/19/2020 13:58

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20C0201-02 A 02

Preparation Batch: BIC0362

Sample Size: 25 mL (wet)

Prepared: 03/18/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.113	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0837	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:23

SO-TC-121B-031620
20C0201-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/16/2020 11:45

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 03/18/2020 19:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20C0201-02 A

Preparation Batch: BIC0379

Sample Size: 20.11 g (wet)

Prepared: 03/18/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.48	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:23

SO-TC-121C-031620
20C0201-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 03/16/2020 12:00

Instrument: ICP2 Analyst: SKM

Analyzed: 03/19/2020 14:03

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20C0201-03 A 02

Preparation Batch: BIC0362

Sample Size: 25 mL (wet)

Prepared: 03/18/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.105	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0683	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:23

SO-TC-121C-031620
20C0201-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/16/2020 12:00

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 03/18/2020 19:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20C0201-03 A

Preparation Batch: BIC0379

Sample Size: 20.02 g (wet)

Prepared: 03/18/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.55	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:23

TCLP Metals and Metallic Compounds - Quality Control

Batch BIC0362 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BIC0362-BLK1)					Prepared: 18-Mar-2020 Analyzed: 19-Mar-2020 13:00					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:23

Wet Chemistry - Quality Control

Batch BIC0379 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIC0379-BS1)										
					Prepared: 18-Mar-2020 Analyzed: 18-Mar-2020 19:02					
pH	6.98	0.01	0.01	pH Units	7.00	99.7	99.2-100.8			
Duplicate (BIC0379-DUP1)										
					Source: 20C0201-01 Prepared: 18-Mar-2020 Analyzed: 18-Mar-2020 19:02					
pH	9.00	0.01	0.01	pH Units	9.05	0.55	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:23

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:23

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

23 March 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20C0212

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., cn=Shelly
Fishel, email=shelly.fishel@arilabs.com
Date: 2020.03.23 12:37:31 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2000212 Turn-around Requested: 3 days

ARI Client Company: PERC Phone: 425-346-0921

Client Contact: Kenny King

Client Project Name: Superlon Plastics

Client Project #: SLON Samplers: King

Sample ID Date Time Matrix No. Containers

SO-TC-122A-031720 03/17/20 12:50 Soil 1

SO-TC-122B-031720 03/17/20 13:00 Soil 1

SO-TC-122C-031720 03/17/20 13:10 Soil 1

Comments/Special Instructions Relinquished by: (Signature) Kenny King

Printed Name: Kenny King

Company: PERC

Date & Time: 3/17/20 16:39

Received by: (Signature) S. Dunnihan

Printed Name: S. Dunnihan

Company: ARI

Date & Time: 03/17/20 1639

Date: 3/17/2020

Page: 1 of 1

No. of Coolers: 0 Cooler Temps: AUB

Analysis Requested

TCLP 1311 As/Pb Only pH 9045C



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-122A-031720	20C0212-01	Solid	17-Mar-2020 12:50	17-Mar-2020 16:39
SO-TC-122B-031720	20C0212-02	Solid	17-Mar-2020 13:00	17-Mar-2020 16:39
SO-TC-122C-031720	20C0212-03	Solid	17-Mar-2020 13:10	17-Mar-2020 16:39



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:35

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20C0212

Sample receipt

Samples as listed on the preceding page were received 17-Mar-2020 16:39 under ARI work order 20C0212. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

Sample specific QC was performed in association with sample 20C0212-01 in batch BIC0392. The duplicate RPD and matrix spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): _____ (NA)
Assigned ARI Job No: 20C0212

Project Name: Superlon Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES (NO)
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1639 21.4
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO5206

Cooler Accepted by: KD for SD Date: 3/17/2020 Time: 1639

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES (NO)
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: KD Date: 3/17/2020 Time: 1648 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:35

SO-TC-122A-031720
20C0212-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 03/17/2020 12:50

Instrument: ICP2 Analyst: SKM

Analyzed: 03/20/2020 14:30

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20C0212-01 A 02

Preparation Batch: BIC0392

Sample Size: 25 mL (wet)

Prepared: 03/19/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0856	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0105	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:35

SO-TC-122A-031720
20C0212-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/17/2020 12:50

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 03/18/2020 19:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20C0212-01 A

Preparation Batch: BIC0379

Sample Size: 20.07 g (wet)

Prepared: 03/18/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.90	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:35

SO-TC-122B-031720
20C0212-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 03/17/2020 13:00

Instrument: ICP2 Analyst: SKM

Analyzed: 03/20/2020 14:16

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20C0212-02 A 02

Preparation Batch: BIC0392

Sample Size: 25 mL (wet)

Prepared: 03/19/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.124	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:35

SO-TC-122B-031720
20C0212-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/17/2020 13:00

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 03/18/2020 19:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20C0212-02 A

Preparation Batch: BIC0379

Sample Size: 20.16 g (wet)

Prepared: 03/18/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.96	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
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Reported:
23-Mar-2020 12:35

SO-TC-122C-031720
20C0212-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 03/17/2020 13:10

Instrument: ICP2 Analyst: SKM

Analyzed: 03/20/2020 14:21

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20C0212-03 A 02

Preparation Batch: BIC0392

Sample Size: 25 mL (wet)

Prepared: 03/19/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.107	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0089	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:35

SO-TC-122C-031720
20C0212-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/17/2020 13:10

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 03/18/2020 19:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20C0212-03 A

Preparation Batch: BIC0379

Sample Size: 20.03 g (wet)

Prepared: 03/18/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.82	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:35

TCLP Metals and Metallic Compounds - Quality Control

Batch BIC0392 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIC0392-BLK1)						Prepared: 19-Mar-2020 Analyzed: 20-Mar-2020 14:12					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BIC0392-DUP1)						Source: 20C0212-01 Prepared: 19-Mar-2020 Analyzed: 20-Mar-2020 14:25					
Arsenic	0.0784	0.0140	0.250	mg/L		0.0856			8.77	20	J
Lead	0.0073	0.0065	0.100	mg/L		0.0105			36.00	20	L, J
Matrix Spike (BIC0392-MS1)						Source: 20C0212-01 Prepared: 19-Mar-2020 Analyzed: 20-Mar-2020 14:35					
Arsenic	4.19	0.0140	0.250	mg/L	4.00	0.0856	103	75-125			
Lead	3.88	0.0065	0.100	mg/L	4.00	0.0105	96.8	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:35

Wet Chemistry - Quality Control

Batch BIC0379 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIC0379-BS1)									
Prepared: 18-Mar-2020 Analyzed: 18-Mar-2020 19:02									
pH	6.98	0.01	0.01	pH Units	7.00	99.7	99.2-100.8		



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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Mar-2020 12:35

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
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Reported:
23-Mar-2020 12:35

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Fw: ONE DATA PACKAGE FOR YOUR APPROVAL

From Jeff King <jking@perc-nw.com>
Date Mon 11/18/2024 10:34 AM
To kking perc-nw.com <kking@perc-nw.com>

From: jking perc-nw.com
Sent: Thursday, April 2, 2020 10:13 AM
To: David Bosch <DBosch@tpchd.org>
Subject: RE: ONE DATA PACKAGE FOR YOUR APPROVAL

Thank you.

From: David Bosch [mailto:DBosch@tpchd.org]
Sent: Thursday, April 2, 2020 8:24 AM
To: jking perc-nw.com <jking@perc-nw.com>
Subject: RE: ONE DATA PACKAGE FOR YOUR APPROVAL

Good morning Jeff,

The Tacoma-Pierce County Health Department has reviewed the data set dated April 1, 2020. The soils associated with this characterization are acceptable for disposal at the LRI Landfill.

Thank you.

COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 405-8599 c • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: jking perc-nw.com <jking@perc-nw.com>
Sent: Thursday, April 2, 2020 7:44 AM

To: David Bosch <DBosch@tpchd.org>

Subject: ONE DATA PACKAGE FOR YOUR APPROVAL

Dave:

Attached is one data package for your review and approval. As usual each sample represents approximately 22 CY.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-123A-032420	0.041	0.0073	8.82
SO-TC-123B-032420	0.054	0.183	8.92
SO-TC-123C-032420	0.0707	0.038	9.36

Thanks

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

01 April 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20C0307

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., cn=Shelly
Fishel, email=shelly.fishel@arilabs.com
Date: 2020.04.01 15:07:48 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Case Study: Emergency Analysis Request

[illegible]

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI releases ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2020 15:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-123A-032420	20C0307-01	Solid	24-Mar-2020 07:32	24-Mar-2020 16:10
SO-TC-123B-032420	20C0307-02	Solid	24-Mar-2020 07:38	24-Mar-2020 16:10
SO-TC-123C-032420	20C0307-03	Solid	24-Mar-2020 07:42	24-Mar-2020 16:10



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2020 15:00

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20C0307

Sample receipt

Samples as listed on the preceding page were received 24-Mar-2020 16:10 under ARI work order 20C0307. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

Sample specific QC was performed in association with sample 20C0307-01 in batch BIC0591. The duplicate RPD and matrix spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): 2060307 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 2060307

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 1610

19.6°C

If cooler temperature is out of compliance fill out form D0070F

Temp Gun ID# D005206

Cooler Accepted by: JS

Date: 03/24/2020

Time: 1610

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Beignes Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment Split by:

Samples Logged by: JS Date: 03/24/2020 Time: 1614 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:

0018F
01/17/2018

Cooler Receipt Form

Revision 014A



Cooler Temperature Compliance Form

ARI Work Order: 2060307

Cooler#: _____ Temperature(°C): 19.6 C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: J3m Date: 03/24/2020 Time: 1610

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2020 15:00

SO-TC-123A-032420
20C0307-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 03/24/2020 07:32

Instrument: ICP2 Analyst: SKM

Analyzed: 03/31/2020 14:56

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20C0307-01 A 02

Preparation Batch: BIC0591

Sample Size: 25 mL (wet)

Prepared: 03/27/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0410	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0073	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2020 15:00

SO-TC-123A-032420
20C0307-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/24/2020 07:32

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 03/29/2020 16:48

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20C0307-01 A

Preparation Batch: BIC0611

Sample Size: 20.08 g (wet)

Prepared: 03/29/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.82	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2020 15:00

SO-TC-123B-032420
20C0307-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 03/24/2020 07:38

Instrument: ICP2 Analyst: SKM

Analyzed: 03/31/2020 14:43

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20C0307-02 A 02

Preparation Batch: BIC0591

Sample Size: 25 mL (wet)

Prepared: 03/27/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0540	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.183	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2020 15:00

SO-TC-123B-032420
20C0307-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/24/2020 07:38

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 03/29/2020 16:48

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20C0307-02 A

Preparation Batch: BIC0611

Sample Size: 20.02 g (wet)

Prepared: 03/29/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.92	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2020 15:00

SO-TC-123C-032420
20C0307-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 03/24/2020 07:42

Instrument: ICP2 Analyst: SKM

Analyzed: 03/31/2020 14:47

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20C0307-03 A 02

Preparation Batch: BIC0591

Sample Size: 25 mL (wet)

Prepared: 03/27/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0707	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0380	mg/L	J



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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
01-Apr-2020 15:00

SO-TC-123C-032420
20C0307-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/24/2020 07:42

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 03/29/2020 16:48

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20C0307-03 A

Preparation Batch: BIC0611

Sample Size: 20.14 g (wet)

Prepared: 03/29/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.36	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2020 15:00

TCLP Metals and Metallic Compounds - Quality Control

Batch BIC0591 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIC0591-BLK1)						Prepared: 27-Mar-2020 Analyzed: 31-Mar-2020 14:38					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BIC0591-DUP1)						Source: 20C0307-01 Prepared: 27-Mar-2020 Analyzed: 31-Mar-2020 14:52					
Arsenic	0.0530	0.0140	0.250	mg/L		0.0410			25.60	20	L, J
Lead	ND	0.0065	0.100	mg/L		0.0073					U
Matrix Spike (BIC0591-MS1)						Source: 20C0307-01 Prepared: 27-Mar-2020 Analyzed: 31-Mar-2020 15:01					
Arsenic	4.12	0.0140	0.250	mg/L	4.00	0.0410	102	75-125			
Lead	3.82	0.0065	0.100	mg/L	4.00	0.0073	95.2	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2020 15:00

Wet Chemistry - Quality Control

Batch BIC0611 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BIC0611-BS1)						Prepared: 29-Mar-2020 Analyzed: 29-Mar-2020 16:48					
pH	7.00	0.01	0.01	pH Units	7.00		100	99.2-100.8			
Duplicate (BIC0611-DUP1)						Source: 20C0307-01 Prepared: 29-Mar-2020 Analyzed: 29-Mar-2020 16:48					
pH	8.77	0.01	0.01	pH Units		8.82			0.57	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2020 15:00

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2020 15:00

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Two Data packages for your consideration and approval.

From David Bosch <DBosch@tpchd.org>
Date Thu 4/16/2020 8:46 AM
To jking perc-nw.com <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Good morning Jeff,

The Tacoma-Pierce County Health Department has reviewed the two data sets dated April 14, 2020. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Have a nice day!

David Bosch

Environmental Health Specialist III
 Environmental Health
 (253) 405-8599 c • dbosch@tpchd.org
 (253) 798-6498 f • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: jking perc-nw.com <jking@perc-nw.com>
Sent: Wednesday, April 15, 2020 11:03 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: Two Data packages for your consideration and approval.

David:

Attached are two data packages for your consideration and approval. Each sample represents approximately 22 CY of soil. The following table summarizes the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-125A-040720	0.102	ND	9.53

SO-TC-125B-040720	0.0656	ND	9.78
SO-TC-125C-040720	0.0476	ND	9.72
SO-TC-126A-040820	0.344	ND	9.66
SO-TC-126B-040820	0.426	ND	9.57
SO-TC-126C-040820	0.0794	0.0621	9.56

Thanks
Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

14 April 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20D0057

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	TCLP 1 As/Pb/Cd	pH 90							
SO-TC-125A-040720	04/07/20	10:45	Soil	1	✓	✓							
SO-TC-125B-040720	04/07/20	10:50	Soil	1	✓	✓							
SO-TC-125C-040720	04/07/20	10:55	Soil	1	✓	✓							
Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Jacob Walter</i>			Relinquished by: (Signature)			Received by: (Signature)			
	Printed Name: Kenny King			Printed Name: Jacob Walter			Printed Name:			Printed Name:			
	Company: PERC			Company: ARC			Company:			Company:			
	Date & Time: 4/7/2020 17:04			Date & Time: 04/07/2020 1704			Date & Time:			Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-125A-040720	20D0057-01	Solid	07-Apr-2020 10:45	07-Apr-2020 17:04
SO-TC-125B-040720	20D0057-02	Solid	07-Apr-2020 10:50	07-Apr-2020 17:04
SO-TC-125C-040720	20D0057-03	Solid	07-Apr-2020 10:55	07-Apr-2020 17:04



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:22

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20D0057

Sample receipt

Samples as listed on the preceding page were received 07-Apr-2020 17:04 under ARI work order 20D0057. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20D0057-01. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlan Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 20D0057

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1704

22.9°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# DOO 5006

Cooler Accepted by: 1704 Date: 04/07/2020 Time: 1704

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by KD Date: 4/8/20 Time: 0845 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

ARI Work Order: 2000057

Cooler#:

Temperature(°C): 22.9°C

Sample ID

Bottle Count

Bottle Type

*Samples received
above 6°C*

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Completed by: JBM

Date: 09/07/2020

Time: 1709

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:22

SO-TC-125A-040720
20D0057-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/07/2020 10:45

Instrument: ICP2 Analyst: SKM

Analyzed: 04/13/2020 15:20

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0057-01 A 03

Preparation Batch: BID0133

Sample Size: 25 mL (wet)

Prepared: 04/10/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.102	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:22

SO-TC-125A-040720
20D0057-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/07/2020 10:45

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 04/13/2020 11:35

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20D0057-01 A 02

Preparation Batch: BID0141

Sample Size: 20.27 g (wet)

Prepared: 04/13/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.53	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:22

SO-TC-125B-040720
20D0057-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/07/2020 10:50

Instrument: ICP2 Analyst: SKM

Analyzed: 04/13/2020 14:53

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0057-02 A 03

Preparation Batch: BID0133

Sample Size: 25 mL (wet)

Prepared: 04/10/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0656	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:22

SO-TC-125B-040720
20D0057-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/07/2020 10:50

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 04/13/2020 11:35

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20D0057-02 A 02

Preparation Batch: BID0141

Sample Size: 20.49 g (wet)

Prepared: 04/13/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.78	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:22

SO-TC-125C-040720
20D0057-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/07/2020 10:55

Instrument: ICP2 Analyst: SKM

Analyzed: 04/13/2020 14:57

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0057-03 A 03

Preparation Batch: BID0133

Sample Size: 25 mL (wet)

Prepared: 04/10/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0476	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:22

SO-TC-125C-040720
20D0057-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/07/2020 10:55

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 04/13/2020 11:35

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20D0057-03 A 02

Preparation Batch: BID0141

Sample Size: 20.37 g (wet)

Prepared: 04/13/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.72	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:22

TCLP Metals and Metallic Compounds - Quality Control

Batch BID0133 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BID0133-BLK1)						Prepared: 10-Apr-2020 Analyzed: 13-Apr-2020 14:48					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BID0133-DUP1)						Source: 20D0057-01 Prepared: 10-Apr-2020 Analyzed: 13-Apr-2020 15:16					
Arsenic	0.110	0.0140	0.250	mg/L		0.102			8.10	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BID0133-MS1)						Source: 20D0057-01 Prepared: 10-Apr-2020 Analyzed: 13-Apr-2020 15:25					
Arsenic	4.13	0.0140	0.250	mg/L	4.00	0.102	101	75-125			
Lead	3.96	0.0065	0.100	mg/L	4.00	ND	98.9	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:22

Wet Chemistry - Quality Control

Batch BID0141 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BID0141-BS1)										
					Prepared: 13-Apr-2020 Analyzed: 13-Apr-2020 11:35					
pH	6.98	0.01	0.01	pH Units	7.00	99.7	99.2-100.8			
Duplicate (BID0141-DUP1)										
					Source: 20D0057-01 Prepared: 13-Apr-2020 Analyzed: 13-Apr-2020 11:35					
pH	9.50	0.01	0.01	pH Units	9.53			0.32	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:22

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:22

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

14 April 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20D0071

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: <i>2000071</i>	Turn-around Requested: 3 days
ARI Client Company: PERC	Phone: 425-346-0921
Client Contact: Kenny King	
Client Project Name: Superlon Plastics	
Client Project #: SLON	Samplers: King

Page: _____ of _____

No. of Coolers: 2 Cooler Temps: 29.4°C



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project #: SLON	Samplers: King
-------------------------------	-----------------------

Analysis Requested

Notes/Comments

Sample ID

Date _____

Time

Matrix

No. Containers

TCLP 1311
As/PbOnly

9045C

SO-TC-126A-040820	04/08/20	11:45	Soil	1
-------------------	----------	-------	------	---

SO-TC-126B-040820	04/08/20	11:50	Soil	1
-------------------	----------	-------	------	---

SO-TC-126C-040820	04/08/20	11:55	Soil	1
-------------------	----------	-------	------	---

Comments/Special Instructions

Relinquished by:
(Signature) _____

Printed Name:

Company:

Date & Time:

Received by:
(Signature)

Printed Name:

Company:

Date & Time:

Relinquished by:
(Signature)

Printed Name:

Company:	
----------	--

Date & Time:

Received by:	
(Signature)	

Printed Name:

Company:	
----------	--

Date & Time:

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PBDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-126A-040820	20D0071-01	Solid	08-Apr-2020 11:45	08-Apr-2020 15:23
SO-TC-126B-040820	20D0071-02	Solid	08-Apr-2020 11:50	08-Apr-2020 15:23
SO-TC-126C-040820	20D0071-03	Solid	08-Apr-2020 11:55	08-Apr-2020 15:23



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:28

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20D0071

Sample receipt

Samples as listed on the preceding page were received 08-Apr-2020 15:23 under ARI work order 20D0071. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERI

Project Name: Superlan Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 2000071

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1503 29.4°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# DOO 5206

Cooler Accepted by: JA Date: 04/08/2020 Time: 1503

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: 04/08/2020 Equipment: 1559 Split by: JA

Samples Logged by: JA Date: 04/08/2020 Time: 1559 Labels checked by: JA

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: JA Date: 04/08/2020



Cooler Temperature Compliance Form

ARI Work Order: 2000071

Cooler#: _____ Temperature(°C): 29.9°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: AS Date: 04/08/2020 Time: 1523

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:28

SO-TC-126A-040820
20D0071-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/08/2020 11:45

Instrument: ICP2 Analyst: SKM

Analyzed: 04/13/2020 15:02

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0071-01 A 03

Preparation Batch: BID0133

Sample Size: 25 mL (wet)

Prepared: 04/10/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.344	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:28

SO-TC-126A-040820
20D0071-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/08/2020 11:45

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 04/13/2020 11:35

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20D0071-01 A 02

Preparation Batch: BID0141

Sample Size: 20.01 g (wet)

Prepared: 04/13/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.66	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:28

SO-TC-126B-040820
20D0071-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/08/2020 11:50

Instrument: ICP2 Analyst: SKM

Analyzed: 04/13/2020 15:06

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0071-02 A 03

Preparation Batch: BID0133

Sample Size: 25 mL (wet)

Prepared: 04/10/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.426	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:28

SO-TC-126B-040820
20D0071-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/08/2020 11:50

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 04/13/2020 11:35

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20D0071-02 A 02

Preparation Batch: BID0141

Sample Size: 20.45 g (wet)

Prepared: 04/13/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.57	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:28

SO-TC-126C-040820
20D0071-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/08/2020 11:55

Instrument: ICP2 Analyst: SKM

Analyzed: 04/13/2020 15:11

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0071-03 A 02

Preparation Batch: BID0133

Sample Size: 25 mL (wet)

Prepared: 04/10/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0794	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0621	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:28

SO-TC-126C-040820
20D0071-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/08/2020 11:55

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 04/13/2020 11:35

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20D0071-03 A 02

Preparation Batch: BID0141

Sample Size: 20.35 g (wet)

Prepared: 04/13/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.56	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:28

TCLP Metals and Metallic Compounds - Quality Control

Batch BID0133 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BID0133-BLK1)					Prepared: 10-Apr-2020 Analyzed: 13-Apr-2020 14:48				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:28

Wet Chemistry - Quality Control

Batch BID0141 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BID0141-BS1)					Prepared: 13-Apr-2020 Analyzed: 13-Apr-2020 11:35				
pH	6.98	0.01	0.01	pH Units	7.00	99.7	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Apr-2020 14:28

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
14-Apr-2020 14:28

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



FW: Two data packages for your review and approval.

From jking perc-nw.com <jking@perc-nw.com>

Date Tue 4/21/2020 6:02 AM

To kking perc-nw.com <kking@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

FYI

From: David Bosch [mailto:DBosch@tpchd.org]

Sent: Monday, April 20, 2020 3:02 PM

To: jking perc-nw.com <jking@perc-nw.com>

Subject: RE: Two data packages for your review and approval.

Good afternoon Jeff,

The Tacoma-Pierce County Health Department has reviewed the two data sets dated April 20, 2020. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 405-8599 c • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: jking perc-nw.com <jking@perc-nw.com>

Sent: Monday, April 20, 2020 1:42 PM

To: David Bosch <DBosch@tpchd.org>

Subject: Two data packages for your review and approval.

David:

Attached are two data packages for your review and approval. Each sample represents approximately 22 CY of soil. The table below presents the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-127A-041320	0.207	ND	9.29
SO-TC-127B-041320	0.138	ND	9.4
SO-TC-127C-041320	0.233	ND	9.31
SO-TC-128A-041320	0.187	0.0559	7.75
SO-TC-128B-041320	0.359	0.0649	7.34
SO-TC-128C-041320	0.358	0.0518	7.17

Thanks

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

20 April 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20D0119

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20D0119		Turn-around Requested: 3 days		Date: 4/14/2020		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 425-346-0921		Page: of									
Client Contact: Kenny King		No. of Coolers: 2		Cooler Temps: 23.6°C									
Client Project Name: Superlon Plastics													
Client Project #: SLON		Samplers: King		Analysis Requested				Notes/Comments					
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C							
SO-TC-127A-041320	04/13/20	15:05	Soil	1	✓	✓							
SO-TC-127B-041320	04/13/20	15:10	Soil	1	✓	✓							
SO-TC-127C-041320	04/13/20	15:15	Soil	1	✓	✓							
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>James Walter</i>		Relinquished by: (Signature)		Received by: (Signature)					
		Printed Name: Kenny King		Printed Name: James Walter		Printed Name:		Printed Name:					
		Company: PERC		Company: ARI		Company:		Company:					
		Date & Time: 4/14/2020 16:46		Date & Time: 04/14/2020 1646		Date & Time:		Date & Time:					

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-127A-041320	20D0119-01	Solid	13-Apr-2020 15:05	14-Apr-2020 16:46
SO-TC-127B-041320	20D0119-02	Solid	13-Apr-2020 15:10	14-Apr-2020 16:46
SO-TC-127C-041320	20D0119-03	Solid	13-Apr-2020 15:15	14-Apr-2020 16:46



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:57

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20D0119

Sample receipt

Samples as listed on the preceding page were received 14-Apr-2020 16:46 under ARI work order 20D0119. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20D0119-01 in batch BID0246. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

Sample specific QC was performed in association with sample 20D0119-01 in batch BID0218. The duplicate RPD and matrix spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PGRC

Project Name: Superior Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 20D0119

Tracking No. NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 1646

23.6°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# DOO 5206

Cooler Accepted by: JSW Date 04/14/2020 Time: 1646

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: KD Date: 4/15/2020 Time: 0853 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By Date:



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:57

SO-TC-127A-041320
20D0119-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/13/2020 15:05

Instrument: ICP2 Analyst: MCB

Analyzed: 04/17/2020 11:48

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0119-01 A 02

Preparation Batch: BID0218

Sample Size: 25 mL (wet)

Prepared: 04/16/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.207	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:57

SO-TC-127A-041320
20D0119-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/13/2020 15:05

Instrument: Accumet AB150 Analyst: BF

Analyzed: 04/17/2020 11:58

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20D0119-01 A

Preparation Batch: BID0246

Sample Size: 20.64 g (wet)

Prepared: 04/17/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.29	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:57

SO-TC-127B-041320
20D0119-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/13/2020 15:10

Instrument: ICP2 Analyst: MCB

Analyzed: 04/17/2020 11:44

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0119-02 A 02

Preparation Batch: BID0218

Sample Size: 25 mL (wet)

Prepared: 04/16/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.138	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:57

SO-TC-127B-041320
20D0119-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/13/2020 15:10

Instrument: Accumet AB150 Analyst: BF

Analyzed: 04/17/2020 11:58

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20D0119-02 A

Preparation Batch: BID0246

Sample Size: 20.61 g (wet)

Prepared: 04/17/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.40	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:57

SO-TC-127C-041320
20D0119-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/13/2020 15:15

Instrument: ICP2 Analyst: MCB

Analyzed: 04/17/2020 11:39

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0119-03 A 02

Preparation Batch: BID0218

Sample Size: 25 mL (wet)

Prepared: 04/16/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.233	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:57

SO-TC-127C-041320
20D0119-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/13/2020 15:15

Instrument: Accumet AB150 Analyst: BF

Analyzed: 04/17/2020 11:58

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20D0119-03 A

Preparation Batch: BID0246

Sample Size: 20.05 g (wet)

Prepared: 04/17/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.31	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:57

TCLP Metals and Metallic Compounds - Quality Control

Batch BID0218 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BID0218-BLK1)						Prepared: 16-Apr-2020 Analyzed: 17-Apr-2020 11:21					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BID0218-DUP1)						Source: 20D0119-01 Prepared: 16-Apr-2020 Analyzed: 17-Apr-2020 11:53					
Arsenic	0.220	0.0140	0.250	mg/L		0.207			6.21	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BID0218-MS1)						Source: 20D0119-01 Prepared: 16-Apr-2020 Analyzed: 17-Apr-2020 11:58					
Arsenic	4.42	0.0140	0.250	mg/L	4.00	0.207	105	75-125			
Lead	3.96	0.0065	0.100	mg/L	4.00	ND	99.0	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:57

Wet Chemistry - Quality Control

Batch BID0246 - EPA 9045D

Instrument: Accumet AB150 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BID0246-BS1)					Prepared: 17-Apr-2020 Analyzed: 17-Apr-2020 11:58					
pH	7.04	0.01	0.01	pH Units	7.00	101	99.2-100.8			
Duplicate (BID0246-DUP1)					Source: 20D0119-01 Prepared: 17-Apr-2020 Analyzed: 17-Apr-2020 11:58					
pH	9.38	0.01	0.01	pH Units	9.29			0.96	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:57

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:57

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

20 April 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20D0120

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	TCLP 1 As/Pb C	pH 904							
SO-TC-128A-041320	04/13/20	08:40	Soil	1	✓	✓							
SO-TC-128B-041420	04/14/20	09:05	Soil	1	✓	✓							
SO-TC-128C-041420	04/14/20	09:05	Soil	1	✓	✓							
Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Jacob Walter</i>			Relinquished by: (Signature)			Received by: (Signature)			
	Printed Name: <i>Kenny King</i>			Printed Name: <i>Jacob Walter</i>			Printed Name:			Printed Name:			
	Company: <i>PERC</i>			Company: <i>ARZ</i>			Company:			Company:			
	Date & Time: <i>4/14/2020 16:46</i>			Date & Time: <i>04/14/2020 1646</i>			Date & Time:			Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-128A-041320	20D0120-01	Solid	13-Apr-2020 08:40	14-Apr-2020 16:46
SO-TC-128B-041420	20D0120-02	Solid	14-Apr-2020 09:05	14-Apr-2020 16:46
SO-TC-128C-041420	20D0120-03	Solid	14-Apr-2020 09:05	14-Apr-2020 16:46



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:11

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20D0120

Sample receipt

Samples as listed on the preceding page were received 14-Apr-2020 16:46 under ARI work order 20D0120. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): _____ (NA)
Assigned ARI Job No: 20D0120

Project Name: Superior Plaster
Delivered by: Fed-Ex UPS Courier Hard Delivered Other: _____
Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES (NO)
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1646 23.6°C
If cooler temperature is out of compliance fill out form 00070F
Cooler Accepted by: JSW Date: 04/15/2020 Temp Gun ID#: DOO 5206 Time: 1646

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES (NO)
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI... NA
Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

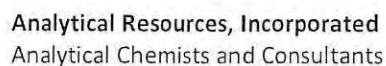
Samples Logged by: KD Date: 4/15/2020 Time: 0912 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: JBN Date: 07/19/2020 Time: 1646
00070F Cooler Temperature Compliance Form Ver



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:11

SO-TC-128A-041320
20D0120-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/13/2020 08:40

Instrument: ICP2 Analyst: MCB

Analyzed: 04/17/2020 11:26

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0120-01 A 02

Preparation Batch: BID0218

Sample Size: 25 mL (wet)

Prepared: 04/16/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.187	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0559	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:11

SO-TC-128A-041320
20D0120-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/13/2020 08:40

Instrument: Accumet AB150 Analyst: BF

Analyzed: 04/17/2020 11:58

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20D0120-01 A

Preparation Batch: BID0246

Sample Size: 20.69 g (wet)

Prepared: 04/17/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.75	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:11

SO-TC-128B-041420
20D0120-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/14/2020 09:05

Instrument: ICP2 Analyst: MCB

Analyzed: 04/17/2020 11:30

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0120-02 A 02

Preparation Batch: BID0218

Sample Size: 25 mL (wet)

Prepared: 04/16/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.359	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0649	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:11

SO-TC-128B-041420
20D0120-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/14/2020 09:05

Instrument: Accumet AB150 Analyst: BF

Analyzed: 04/17/2020 11:58

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20D0120-02 A

Preparation Batch: BID0246

Sample Size: 20.18 g (wet)

Prepared: 04/17/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.34	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:11

SO-TC-128C-041420
20D0120-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/14/2020 09:05

Instrument: ICP2 Analyst: MCB

Analyzed: 04/17/2020 11:35

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0120-03 A 02

Preparation Batch: BID0218

Sample Size: 25 mL (wet)

Prepared: 04/16/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.358	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0518	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:11

SO-TC-128C-041420
20D0120-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/14/2020 09:05

Instrument: Accumet AB150 Analyst: BF

Analyzed: 04/17/2020 11:58

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20D0120-03 A

Preparation Batch: BID0246

Sample Size: 20.22 g (wet)

Prepared: 04/17/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.17	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:11

TCLP Metals and Metallic Compounds - Quality Control

Batch BID0218 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BID0218-BLK1)					Prepared: 16-Apr-2020 Analyzed: 17-Apr-2020 11:21				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:11

Wet Chemistry - Quality Control

Batch BID0246 - EPA 9045D

Instrument: Accumet AB150 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BID0246-BS1)					Prepared: 17-Apr-2020 Analyzed: 17-Apr-2020 11:58				
pH	7.04	0.01	0.01	pH Units	7.00	101	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:11

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2020 12:11

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Four data packages for your review and approval

From David Bosch <DBosch@tpchd.org>
Date Wed 4/29/2020 7:57 AM
To jking perc-nw.com <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Good morning Jeff,
The Tacoma-Pierce County Health Department has reviewed the four data sets dated April 27, 2020 (3) and April 28, 2020. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III
Environmental Health
(253) 405-8599 c • dbosch@tpchd.org
(253) 798-6498 f • [\[www.tpchd.org\]](http://www.tpchd.org)www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: jking perc-nw.com <jking@perc-nw.com>
Sent: Tuesday, April 28, 2020 1:00 PM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: Four data packages for your review and approval

David:

Attached are four data packages for your review and approval. Each sample represents approximately 22 CY of soil. The table below summarizes the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-129A-042020	0.193	0.114	6.11

SO-TC-129B-042020	0.22	0.0932	6.54
SO-TC-129C-042120	0.156	0.155	6.58
SO-TC-130A-042120	0.45	0.592	6.61
SO-TC-131A-042220	0.267	ND	8.59
SO-TC-131B-042220	0.12	ND	9.51
SO-TC-131C-042220	0.0814	ND	9.46

Thanks as usual
Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

27 April 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20D0157

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20D0157	Turn-around Requested: 3 days	Date: 4/20/2020
ARI Client Company: PERC	Phone: 425-346-0921	Page: 1 of 1
Client Contact: Kenny King		No. of Coolers: 0 Cooler Temps: 25.0°C



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon		Analysis Requested										Notes/Comments
Client Project #: SLON	Samplers: King	TCLP 1311 As/Pb Only	pH 9045C									
Sample ID	Date	Time	Matrix	No. Containers								
SO-TC-129A-042020	04/20/20	08:30	Soil	1	✓	✓						
SO-TC-129B-042020	04/20/20	08:30	Soil	1	✓	✓						
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walte</i>		Relinquished by: (Signature)		Received by: (Signature)				
		Printed Name: <i>Kenny King</i>		Printed Name: <i>Jacob Walte</i>		Printed Name:		Printed Name:				
		Company: <i>PERC</i>		Company: <i>ARI</i>		Company:		Company:				
		Date & Time: <i>4/20/20 16:38</i>		Date & Time: <i>04/20/2020 1638</i>		Date & Time:		Date & Time:				

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-129A-042020	20D0157-01	Solid	20-Apr-2020 08:30	20-Apr-2020 16:38
SO-TC-129B-042020	20D0157-02	Solid	20-Apr-2020 08:30	20-Apr-2020 16:38



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:33

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20D0157

Sample receipt

Samples as listed on the preceding page were received 20-Apr-2020 16:38 under ARI work order 20D0157. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20D0157-01 in batch BID0318. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

Sample specific QC was performed in association with sample 20D0157-01 in batch BOD0321. The duplicate RPD and matrix spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 2000157

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1638 25.0°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO S206

Cooler Accepted by: JJW Date: 04/20/2020 Time: 1638

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

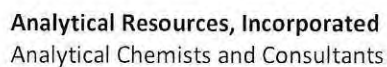
Samples Logged by: JJW Date: 04/20/2020 Time: 1641 Labels checked by: 46 JJW

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:33

SO-TC-129A-042020
20D0157-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/20/2020 08:30

Instrument: ICP2 Analyst: TCH

Analyzed: 04/24/2020 14:45

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0157-01 A 03

Preparation Batch: BID0321

Sample Size: 25 mL (wet)

Prepared: 04/23/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.193	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.114	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:33

SO-TC-129A-042020
20D0157-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/20/2020 08:30

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 04/23/2020 12:13

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20D0157-01 A

Preparation Batch: BID0318

Sample Size: 20.67 g (wet)

Prepared: 04/23/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.11	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:33

SO-TC-129B-042020
20D0157-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/20/2020 08:30

Instrument: ICP2 Analyst: TCH

Analyzed: 04/24/2020 14:22

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0157-02 A 03

Preparation Batch: BID0321

Sample Size: 25 mL (wet)

Prepared: 04/23/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.220	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0932	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:33

SO-TC-129B-042020
20D0157-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/20/2020 08:30

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 04/23/2020 12:13

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20D0157-02 A

Preparation Batch: BID0318

Sample Size: 20.83 g (wet)

Prepared: 04/23/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.54	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:33

TCLP Metals and Metallic Compounds - Quality Control

Batch BID0321 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BID0321-BLK1)						Prepared: 23-Apr-2020 Analyzed: 24-Apr-2020 14:13					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BID0321-DUP1)						Source: 20D0157-01 Prepared: 23-Apr-2020 Analyzed: 24-Apr-2020 14:40					
Arsenic	0.196	0.0140	0.250	mg/L		0.193			1.54	20	J
Lead	0.122	0.0065	0.100	mg/L		0.114			6.69	20	
Matrix Spike (BID0321-MS1)						Source: 20D0157-01 Prepared: 23-Apr-2020 Analyzed: 24-Apr-2020 14:50					
Arsenic	4.52	0.0140	0.250	mg/L	4.00	0.193	108	75-125			
Lead	4.35	0.0065	0.100	mg/L	4.00	0.114	106	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:33

Wet Chemistry - Quality Control

Batch BID0318 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BID0318-BS1)						Prepared: 23-Apr-2020 Analyzed: 23-Apr-2020 12:13					
pH	7.03	0.01	0.01	pH Units	7.00		100	99.2-100.8			
Duplicate (BID0318-DUP1)						Source: 20D0157-01 Prepared: 23-Apr-2020 Analyzed: 23-Apr-2020 12:13					
pH	6.16	0.01	0.01	pH Units		6.11			0.82	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:33

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:33

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

27 April 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20D0172

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2000172		Turn-around Requested: 3 days		Date: 4/21/2020		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)																																																																																																																										
ARI Client Company: PERC		Phone: 425-346-0921		Page: 1 of 1																																																																																																																												
Client Contact: Kenny King				No. of Coolers: 2 Cooler Temps: 21.6°C																																																																																																																												
Client Project Name: Superlon				<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="8">Analysis Requested</th> <th>Notes/Comments</th> </tr> <tr> <th>TCLP 1311 As/Pb Only</th> <th>pH 9045C</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>								Analysis Requested								Notes/Comments	TCLP 1311 As/Pb Only	pH 9045C								✓	✓																																																																																																	
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SO-TC-129C-042120	04/21/20	08:00	Soil	1	✓	✓																																																																																																																										
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walter</i>		Relinquished by: (Signature)		Received by: (Signature)																																																																																																																								
		Printed Name: <i>Kenny King</i>		Printed Name: <i>Jacob Walter</i>		Printed Name:		Printed Name:																																																																																																																								
		Company: <i>PERC</i>		Company: <i>ARI</i>		Company:		Company:																																																																																																																								
		Date & Time: <i>4/21/20 16:42</i>		Date & Time: <i>04/21/2020 16:42</i>		Date & Time:		Date & Time:																																																																																																																								

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-129C-042120	20D0172-01	Solid	21-Apr-2020 08:00	21-Apr-2020 16:42



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:37

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20D0172

Sample receipt

One sample as listed on the preceding page was received 21-Apr-2020 16:42 under ARI work order 20D0172. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No 2000172

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1642

21.6°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# DOO 5206

Cooler Accepted by JB

Date: 04/01/2020

Time: 1642

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

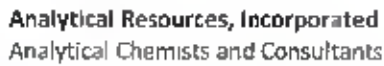
Samples Logged by: JB Date: 04/01/2020 Time: 1646 Labels checked by: JB

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:37

SO-TC-129C-042120
20D0172-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/21/2020 08:00

Instrument: ICP2 Analyst: TCH

Analyzed: 04/24/2020 14:31

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0172-01 A 03

Preparation Batch: BID0321

Sample Size: 25 mL (wet)

Prepared: 04/23/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.156	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.155	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:37

SO-TC-129C-042120
20D0172-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/21/2020 08:00

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 04/23/2020 12:13

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20D0172-01 A

Preparation Batch: BID0318

Sample Size: 20.15 g (wet)

Prepared: 04/23/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.58	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:37

TCLP Metals and Metallic Compounds - Quality Control

Batch BID0321 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BID0321-BLK1)					Prepared: 23-Apr-2020 Analyzed: 24-Apr-2020 14:13				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:37

Wet Chemistry - Quality Control

Batch BID0318 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BID0318-BS1)					Prepared: 23-Apr-2020 Analyzed: 23-Apr-2020 12:13				
pH	7.03	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:37

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:37

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

27 April 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20D0173

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

[illegible]

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/SEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-130A-042120	20D0173-01	Solid	21-Apr-2020 11:55	21-Apr-2020 16:42



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:44

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20D0173

Sample receipt

The sample as listed on the preceding page was received 21-Apr-2020 16:42 under ARI work order 20D0173. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other NA

Assigned ARI Job No: 2000173

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (*C) (recommended 2.0-6.0 *C for chemistry)

Time 1642 21.6°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# DOO 5206

Cooler Accepted by: JS

Date: 04/21/2000

Time: 1642

Complete custody forms and attach all shipping documents

Log-in Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: JS Date: 04/21/2000 Time: 1648 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By _____ Date _____



Cooler Temperature Compliance Form

Completed by: Idu Date: 04/21/2020 Time: 1692

00070.F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:44

SO-TC-130A-042120
20D0173-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/21/2020 11:55

Instrument: ICP2 Analyst: TCH

Analyzed: 04/24/2020 14:36

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0173-01 A 03

Preparation Batch: BID0321

Sample Size: 25 mL (wet)

Prepared: 04/23/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.450	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.592	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:44

SO-TC-130A-042120
20D0173-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/21/2020 11:55

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 04/23/2020 12:13

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20D0173-01 A

Preparation Batch: BID0318

Sample Size: 20.02 g (wet)

Prepared: 04/23/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.61	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:44

TCLP Metals and Metallic Compounds - Quality Control

Batch BID0321 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BID0321-BLK1)					Prepared: 23-Apr-2020 Analyzed: 24-Apr-2020 14:13				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:44

Wet Chemistry - Quality Control

Batch BID0318 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BID0318-BS1)					Prepared: 23-Apr-2020 Analyzed: 23-Apr-2020 12:13				
pH	7.03	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:44

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2020 13:44

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

28 April 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20D0193

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20D0193		Turn-around Requested: 3 days		Date: 4/22/2020		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of					
Client Contact: Kenny King		No. of Coolers: 2		Cooler Temps: 18.9°C					
Client Project Name: Superlon				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	pH 9045C				
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-131A-042220	04/22/20	15:00	Soil	1	✓	✓			
SO-TC-131B-042220	04/22/20	15:10	Soil	1	✓	✓			
SO-TC-131C-042220	04/22/20	15:20	Soil	1	✓	✓			
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walte</i>		Relinquished by: (Signature)		Received by: (Signature)	
		Printed Name: <i>Kenny King</i>		Printed Name: <i>Jacob Walte</i>		Printed Name:		Printed Name:	
		Company: <i>PERC</i>		Company: <i>ARI</i>		Company:		Company:	
		Date & Time: <i>4/22/20 16:46</i>		Date & Time: <i>04/22/2020 1646</i>		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Apr-2020 11:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-131A-042220	20D0193-01	Solid	22-Apr-2020 15:00	22-Apr-2020 16:46
SO-TC-131B-042220	20D0193-02	Solid	22-Apr-2020 15:10	22-Apr-2020 16:46
SO-TC-131C-042220	20D0193-03	Solid	22-Apr-2020 15:20	22-Apr-2020 16:46



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Apr-2020 11:53

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20D0193

Sample receipt

Samples as listed on the preceding page were received 22-Apr-2020 16:46 under ARI work order 20D0193. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH- EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

Sample specific QC was performed in association with sample 20D0193-01 in batch BID0358. The duplicate RPD and matrix spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): 2000193 NA

Delivered by: Fed-Ex UPS Courier NA Delivered Other: NA

Assigned ARI Job No: 2000193

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1646

18.9°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO5206

Cooler Accepted by: JS

Date: 04/22/2020

Time: 1646

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Subsorb Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Were the sample(s) split by ARI? NA YES Date/Time: NA Equipment NA Split by: NA

Samples Logged by: JS Date: 04/22/2020 Time: 1701 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: JS Date: 04/22/2020



Cooler Temperature Compliance Form

Completed by: JS Date: 04/22/2000 Time: 1646

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Apr-2020 11:53

SO-TC-131A-042220
20D0193-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/22/2020 15:00

Instrument: ICP2 Analyst: MCB

Analyzed: 04/27/2020 13:46

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0193-01 A 03

Preparation Batch: BID0358

Sample Size: 25 mL (wet)

Prepared: 04/24/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.267	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Apr-2020 11:53

SO-TC-131A-042220
20D0193-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/22/2020 15:00

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 04/23/2020 12:13

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20D0193-01 A

Preparation Batch: BID0318

Sample Size: 20.66 g (wet)

Prepared: 04/23/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.59	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Apr-2020 11:53

SO-TC-131B-042220
20D0193-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/22/2020 15:10

Instrument: ICP2 Analyst: MCB

Analyzed: 04/27/2020 13:32

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0193-02 A 03

Preparation Batch: BID0358

Sample Size: 25 mL (wet)

Prepared: 04/24/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.120	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Apr-2020 11:53

SO-TC-131B-042220
20D0193-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/22/2020 15:10

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 04/23/2020 12:13

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20D0193-02 A

Preparation Batch: BID0318

Sample Size: 20.18 g (wet)

Prepared: 04/23/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.51	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Apr-2020 11:53

SO-TC-131C-042220
20D0193-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/22/2020 15:20

Instrument: ICP2 Analyst: MCB

Analyzed: 04/27/2020 13:37

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0193-03 A 03

Preparation Batch: BID0358

Sample Size: 25 mL (wet)

Prepared: 04/24/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0814	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Apr-2020 11:53

SO-TC-131C-042220
20D0193-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/22/2020 15:20

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 04/23/2020 12:13

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20D0193-03 A

Preparation Batch: BID0318

Sample Size: 20.55 g (wet)

Prepared: 04/23/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.46	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Apr-2020 11:53

TCLP Metals and Metallic Compounds - Quality Control

Batch BID0358 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BID0358-BLK1)						Prepared: 24-Apr-2020 Analyzed: 27-Apr-2020 12:20					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BID0358-DUP1)						Source: 20D0193-01 Prepared: 24-Apr-2020 Analyzed: 27-Apr-2020 13:42					
Arsenic	0.276	0.0140	0.250	mg/L		0.267			3.48	20	
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BID0358-MS1)						Source: 20D0193-01 Prepared: 24-Apr-2020 Analyzed: 27-Apr-2020 13:51					
Arsenic	4.58	0.0140	0.250	mg/L	4.00	0.267	108	75-125			
Lead	4.15	0.0065	0.100	mg/L	4.00	ND	104	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Apr-2020 11:53

Wet Chemistry - Quality Control

Batch BID0318 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BID0318-BS1)					Prepared: 23-Apr-2020 Analyzed: 23-Apr-2020 12:13				
pH	7.03	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Apr-2020 11:53

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Apr-2020 11:53

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



FW: One Data package for your review and approval

From jking perc-nw.com <jking@perc-nw.com>

Date Wed 5/6/2020 8:19 AM

To kking perc-nw.com <kking@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

From: David Bosch [mailto:DBosch@tpchd.org]

Sent: Wednesday, May 6, 2020 7:43 AM

To: jking perc-nw.com <jking@perc-nw.com>

Subject: RE: One Data package for your review and approval

Good morning Jeff,

The Tacoma-Pierce County Health Department has reviewed the data package dated May 5, 2020. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you and have a nice day!

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 405-8599 c • dbosch@tpchd.org

(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: jking perc-nw.com <jking@perc-nw.com>

Sent: Tuesday, May 5, 2020 3:23 PM

To: David Bosch <DBosch@tpchd.org>

Subject: One Data package for your review and approval

David:

Attached is one data package for your review and approval. Each sample represents approximately 22 CY of soil. The following table lists the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-132A-042820	0.471	ND	8.88
SO-TC-132B-042820	0.319	0.077	8.56
SO-TC-132C-042820	0.393	0.0069	8.53

Thank you as always.
Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

This electronic mail transmission and any accompanying documents contain information belonging to the sender which may be confidential and legally privileged. This information is intended only for the use of the individual or entity to whom this electronic mail transmission was sent as indicated above. If you are not the intended recipient, any disclosure, copying, distribution, or action taken in reliance on the contents of the information contained in this transmission is strictly prohibited. If you have received this transmission in error, please notify the sender by return e-mail and delete the message. Thank you



Analytical Resources, Incorporated
Analytical Chemists and Consultants

05 May 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20D0270

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20D0270		Turn-around Requested: 3 days			Date: 4/28/2020		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)																																																																																																																																																															
ARI Client Company: PERC		Phone: 425-346-0921			Page: of																																																																																																																																																																	
Client Contact: Kenny King					No. of Coolers: 4 Cooler Temps: 22.3°C																																																																																																																																																																	
Client Project Name: Superlon					<table border="1"> <thead> <tr> <th colspan="10">Analysis Requested</th> <th>Notes/Comments</th> </tr> <tr> <th>TCLP 1311 As/Pb Only</th> <th>pH 9045C</th> <th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th> <th></th> </tr> </thead> <tbody> <tr> <td>✓</td><td>✓</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>✓</td><td>✓</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>✓</td><td>✓</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>								Analysis Requested										Notes/Comments	TCLP 1311 As/Pb Only	pH 9045C										✓	✓										✓	✓										✓	✓																																																																																																												
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SO-TC-132A-042820	04/28/20	10:45	Soil	1	✓	✓																																																																																																																																																																
SO-TC-132B-042820	04/28/20	10:50	Soil	1	✓	✓																																																																																																																																																																
SO-TC-132C-042820	04/28/20	10:55	Soil	1	✓	✓																																																																																																																																																																
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walter</i>		Relinquished by: (Signature)		Received by: (Signature)																																																																																																																																																											
					Printed Name: <i>Kenny King</i>		Printed Name: <i>Jacob Walter</i>		Printed Name:		Printed Name:																																																																																																																																																											
					Company: <i>PERC</i>		Company: <i>ARZ</i>		Company:		Company:																																																																																																																																																											
					Date & Time: <i>4/28/20 16:47</i>		Date & Time: <i>04/28/2020 1647</i>		Date & Time:		Date & Time:																																																																																																																																																											

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2020 13:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-132A-042820	20D0270-01	Solid	28-Apr-2020 10:45	28-Apr-2020 16:47
SO-TC-132B-042820	20D0270-02	Solid	28-Apr-2020 10:50	28-Apr-2020 16:47
SO-TC-132C-042820	20D0270-03	Solid	28-Apr-2020 10:55	28-Apr-2020 16:47



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2020 13:35

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20D0270

Sample receipt

Samples as listed on the preceding page were received 28-Apr-2020 16:47 under ARI work order 20D0270. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20D0270-01. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 2000270

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1647 22.3°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JS Date: 04/28/2020 Time: 1647

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: KD Date: 4/29/20 Time: 0950 Labels checked by: KD

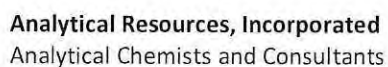
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2020 13:35

SO-TC-132A-042820
20D0270-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/28/2020 10:45

Instrument: ICP2 Analyst: SKM

Analyzed: 05/04/2020 14:49

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0270-01 A 02

Preparation Batch: BIE0018

Sample Size: 25 mL (wet)

Prepared: 05/01/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.471	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2020 13:35

SO-TC-132A-042820
20D0270-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/28/2020 10:45

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 05/03/2020 12:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20D0270-01 A

Preparation Batch: BIE0028

Sample Size: 20.06 g (wet)

Prepared: 05/03/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.88	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2020 13:35

SO-TC-132B-042820
20D0270-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/28/2020 10:50

Instrument: ICP2 Analyst: SKM

Analyzed: 05/04/2020 14:53

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0270-02 A 02

Preparation Batch: BIE0018

Sample Size: 25 mL (wet)

Prepared: 05/01/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.319	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0770	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2020 13:35

SO-TC-132B-042820
20D0270-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/28/2020 10:50

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 05/03/2020 12:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20D0270-02 A

Preparation Batch: BIE0028

Sample Size: 20.09 g (wet)

Prepared: 05/03/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.56	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2020 13:35

SO-TC-132C-042820
20D0270-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 04/28/2020 10:55

Instrument: ICP2 Analyst: SKM

Analyzed: 05/04/2020 14:58

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20D0270-03 A 02

Preparation Batch: BIE0018

Sample Size: 25 mL (wet)

Prepared: 05/01/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.393	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0069	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2020 13:35

SO-TC-132C-042820
20D0270-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/28/2020 10:55

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 05/03/2020 12:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20D0270-03 A

Preparation Batch: BIE0028

Sample Size: 20 g (wet)

Prepared: 05/03/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.53	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2020 13:35

TCLP Metals and Metallic Compounds - Quality Control

Batch BIE0018 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BIE0018-BLK1)					Prepared: 01-May-2020 Analyzed: 04-May-2020 14:44				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2020 13:35

Wet Chemistry - Quality Control

Batch BIE0028 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIE0028-BS1)					Prepared: 03-May-2020 Analyzed: 03-May-2020 12:18					
pH	7.03	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BIE0028-DUP1)					Source: 20D0270-01 Prepared: 03-May-2020 Analyzed: 03-May-2020 12:18					
pH	8.85	0.01	0.01	pH Units	8.88			0.34	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2020 13:35

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2020 13:35

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Fw: One data package for your review and approval

From Jeff King <jking@perc-nw.com>
Date Mon 11/18/2024 10:35 AM
To kking perc-nw.com <kking@perc-nw.com>

From: David Bosch <DBosch@tpchd.org>
Sent: Tuesday, May 12, 2020 8:04 AM
To: jking perc-nw.com <jking@perc-nw.com>
Subject: RE: One data package for your review and approval

Good morning Jeff,

The Tacoma-Pierce County Health Department has reviewed the data sets dated May 11, 2020. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III
Environmental Health
(253) 405-8599 c • dbosch@tpchd.org
(253) 798-6498 f • [\[www.tpchd.org\]](http://www.tpchd.org)www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: jking perc-nw.com <jking@perc-nw.com>
Sent: Monday, May 11, 2020 2:40 PM
To: David Bosch <DBosch@tpchd.org>
Subject: One data package for your review and approval

David:

One data package for your review and approval. Each sample represents approximately 22 CY of soil.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-133A-050420	0.622	ND	9.36
SO-TC-133B-050420	1.46	0.0103	9.55
SO-TC-133C-050420	0.866	0.0079	9.64

Thanks

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

11 May 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20E0027

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc.,
cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2020.05.11 13:24:50 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 20E0027	Turn-around Requested: 3 days
ARI Client Company: PERC	Phone: 425-346-0921
Client Contact: Kenny King	

Page: 1 of 1

No. of Coolers:	2	Cooler Temps:	21.4°C
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Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon	
Client Project #: SLON	Samplers: King

Analysis Requested

Notes/Comments

TCLP 1311
As/Pb Only

pH 9.045C

[illegible]

Comments/Special Instructions

Relinquished by:
(Signature) 

Received by:
(Signature)

Relinquished by:
(Signature)

Received by:	
(Signature)	

Printed Name:

Printed Name:

Printed Name:

Printed Name:

Company:

Company:

Company:

Company:	
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Date & Time:

Date & Time:

Date & Time:

Date & Time:	
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Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2020 13:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-133A-050420	20E0027-01	Solid	04-May-2020 15:55	04-May-2020 16:51
SO-TC-133B-050420	20E0027-02	Solid	04-May-2020 16:05	04-May-2020 16:51
SO-TC-133C-050420	20E0027-03	Solid	04-May-2020 16:15	04-May-2020 16:51



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2020 13:21

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20E0027

Sample receipt

Samples as listed on the preceding page were received 04-May-2020 16:51 under ARI work order 20E0027. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045A

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20E0027-01. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERL

Project Name: Speaker Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 20E0027

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1651

21.4°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JAN

Date: 05/04/2020

Time: 1651

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

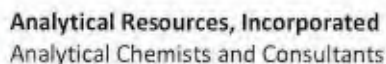
Samples Logged by: KD Date: 5/5/20 Time: 0820 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2020 13:21

SO-TC-133A-050420
20E0027-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/04/2020 15:55

Instrument: ICP2 Analyst: SKM

Analyzed: 05/06/2020 18:07

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20E0027-01 A 03

Preparation Batch: BIE0091

Sample Size: 25 mL (wet)

Prepared: 05/06/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.622	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2020 13:21

SO-TC-133A-050420
20E0027-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/04/2020 15:55

Instrument: Accumet AB150 Analyst: JM

Analyzed: 05/06/2020 15:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20E0027-01 A

Preparation Batch: BIE0096

Sample Size: 20.07 g (wet)

Prepared: 05/06/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.36	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2020 13:21

SO-TC-133B-050420
20E0027-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/04/2020 16:05

Instrument: ICP2 Analyst: SKM

Analyzed: 05/06/2020 18:11

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20E0027-02 A 03

Preparation Batch: BIE0091

Sample Size: 25 mL (wet)

Prepared: 05/06/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	1.46	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0103	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2020 13:21

SO-TC-133B-050420
20E0027-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/04/2020 16:05

Instrument: Accumet AB150 Analyst: JM

Analyzed: 05/06/2020 15:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20E0027-02 A

Preparation Batch: BIE0096

Sample Size: 20.14 g (wet)

Prepared: 05/06/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.55	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2020 13:21

SO-TC-133C-050420
20E0027-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/04/2020 16:15

Instrument: ICP2 Analyst: SKM

Analyzed: 05/06/2020 18:16

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20E0027-03 A 03

Preparation Batch: BIE0091

Sample Size: 25 mL (wet)

Prepared: 05/06/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.866	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0079	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2020 13:21

SO-TC-133C-050420
20E0027-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/04/2020 16:15

Instrument: Accumet AB150 Analyst: JM

Analyzed: 05/06/2020 15:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20E0027-03 A

Preparation Batch: BIE0096

Sample Size: 21.88 g (wet)

Prepared: 05/06/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	9.64	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2020 13:21

TCLP Metals and Metallic Compounds - Quality Control

Batch BIE0091 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BIE0091-BLK1)					Prepared: 06-May-2020 Analyzed: 06-May-2020 18:02					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2020 13:21

Wet Chemistry - Quality Control

Batch BIE0096 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: JM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BIE0096-BS1)						Prepared: 06-May-2020 Analyzed: 06-May-2020 15:25					
pH	7.05	0.01	0.01	pH Units	7.00		101	99.2-100.8			
Duplicate (BIE0096-DUP1)						Source: 20E0027-01 Prepared: 06-May-2020 Analyzed: 06-May-2020 15:25					
pH	9.46	0.01	0.01	pH Units		9.36			1.06	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2020 13:21

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2020 13:21

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: One more data package for you review and approval

From David Bosch <DBosch@tpchd.org>
Date Thu 5/14/2020 9:11 AM
To jking perc-nw.com <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Good morning Jeff,

The Tacoma-Pierce County Health Department has reviewed the data sets dated May 13, 2020. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III
Environmental Health
(253) 405-8599 c • dbosch@tpchd.org
(253) 798-6498 f • www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: jking perc-nw.com <jking@perc-nw.com>
Sent: Wednesday, May 13, 2020 3:15 PM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: One more data package for you review and approval

David:

I am attaching one more data package for you review and approval. I did not expect this until next week or would have included it with the other package.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
-----------	--------------------------------------	-----------------------------------	----

SO-TC-134A-050620	0.93	ND	9.26
SO-TC-134B-050620	2.25	0.0127	9.3
SO-TC-134C-050620	2.52	0.0082	9.27

Thank you

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

13 May 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20E0051

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20E0051		Turn-around Requested: 3 days		Date: 5/6/2020		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)																			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of																					
Client Contact: Kenny King		No. of Coolers: 1		Cooler Temps: 19.4																					
Client Project Name: Superlon				<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="8">Analysis Requested</th> <th>Notes/Comments</th> </tr> </thead> <tbody> <tr> <td>TCLP 1311 As/Pb Only</td> <td>pH 9045C</td> <td></td><td></td><td></td><td></td><td></td><td></td> <td></td> </tr> </tbody> </table>				Analysis Requested								Notes/Comments	TCLP 1311 As/Pb Only	pH 9045C							
Analysis Requested								Notes/Comments																	
TCLP 1311 As/Pb Only	pH 9045C																								
Client Project #: SLON		Samplers: King																							
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C																			
SO-TC-134A-050620	05/06/20	08:30	Soil	1	✓	✓																			
SO-TC-134B-050620	05/06/20	08:35	Soil	1	✓	✓																			
SO-TC-134C-050620	05/06/20	08:40	Soil	1	✓	✓																			
Comments/Special Instructions		Relinquished by:		Received by:		Relinquished by:		Received by:																	
		(Signature) <i>Kenny King</i>		(Signature) <i>Kenny Dang</i>		(Signature)		(Signature)																	
		Printed Name: <i>Kenny King</i>		Printed Name: <i>Kenny Dang</i>		Printed Name:		Printed Name:																	
		Company: <i>PERC</i>		Company: <i>ARI</i>		Company:		Company:																	
Date & Time: <i>5/6/2020 09:45</i>		Date & Time: <i>5/6/2020 0945</i>		Date & Time:		Date & Time:																			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-May-2020 11:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-134A-050620	20E0051-01	Solid	06-May-2020 08:30	06-May-2020 09:45
SO-TC-134B-050620	20E0051-02	Solid	06-May-2020 08:35	06-May-2020 09:45
SO-TC-134C-050620	20E0051-03	Solid	06-May-2020 08:40	06-May-2020 09:45



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-May-2020 11:12

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20E0051

Sample receipt

Samples as listed on the preceding page were received 06-May-2020 09:45 under ARI work order 20E0051. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS spike percent recoveries were within limits.

Sample specific QC was performed in association with sample 20E0051-01 in batch BIE0132. The duplicate RPD and matrix spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 20E0051

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 0945 19.4

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO5206

Cooler Accepted by: KO Date: 5/6/2020 Time: 0945

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: Ziploc

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA NO

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: [Signature] Date: 5/6/2020 Time: 1056 Labels checked by: SLF

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: KD Date: 5/6/2020 Time: 0945
00070F Cooler Temperature Compliance Form Ver



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-May-2020 11:12

SO-TC-134A-050620
20E0051-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/06/2020 08:30

Instrument: ICP2 Analyst: SKM

Analyzed: 05/11/2020 15:11

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20E0051-01 A 03

Preparation Batch: BIE0132

Sample Size: 25 mL (wet)

Prepared: 05/08/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.930	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-May-2020 11:12

SO-TC-134A-050620
20E0051-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/06/2020 08:30

Instrument: Accumet AB150 Analyst: JM

Analyzed: 05/06/2020 15:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20E0051-01 A

Preparation Batch: BIE0096

Sample Size: 20.18 g (wet)

Prepared: 05/06/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.26	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-May-2020 11:12

SO-TC-134B-050620
20E0051-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/06/2020 08:35

Instrument: ICP2 Analyst: SKM

Analyzed: 05/11/2020 14:41

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20E0051-02 A 03

Preparation Batch: BIE0132

Sample Size: 25 mL (wet)

Prepared: 05/08/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	2.25	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0127	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-May-2020 11:12

SO-TC-134B-050620
20E0051-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/06/2020 08:35

Instrument: Accumet AB150 Analyst: JM

Analyzed: 05/06/2020 15:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20E0051-02 A

Preparation Batch: BIE0096

Sample Size: 21.64 g (wet)

Prepared: 05/06/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	9.30	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-May-2020 11:12

SO-TC-134C-050620
20E0051-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/06/2020 08:40

Instrument: ICP2 Analyst: SKM

Analyzed: 05/11/2020 14:46

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20E0051-03 A 02

Preparation Batch: BIE0132

Sample Size: 25 mL (wet)

Prepared: 05/08/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	2.52	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0082	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-May-2020 11:12

SO-TC-134C-050620
20E0051-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/06/2020 08:40

Instrument: Accumet AB150 Analyst: JM

Analyzed: 05/06/2020 15:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20E0051-03 A

Preparation Batch: BIE0096

Sample Size: 21.69 g (wet)

Prepared: 05/06/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	9.27	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-May-2020 11:12

TCLP Metals and Metallic Compounds - Quality Control

Batch BIE0132 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIE0132-BLK1)						Prepared: 08-May-2020 Analyzed: 11-May-2020 14:37					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BIE0132-DUP1)						Source: 20E0051-01 Prepared: 08-May-2020 Analyzed: 11-May-2020 15:07					
Arsenic	0.905	0.0140	0.250	mg/L		0.930			2.65	20	
Lead	0.0090	0.0065	0.100	mg/L		ND					J
Matrix Spike (BIE0132-MS1)						Source: 20E0051-01 Prepared: 08-May-2020 Analyzed: 11-May-2020 15:16					
Arsenic	3.01	0.0140	0.250	mg/L	2.00	0.930	104	75-125			
Lead	1.96	0.0065	0.100	mg/L	2.00	ND	98.0	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-May-2020 11:12

Wet Chemistry - Quality Control

Batch BIE0096 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: JM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIE0096-BS1)					Prepared: 06-May-2020 Analyzed: 06-May-2020 15:25				
pH	7.05	0.01	0.01	pH Units	7.00	101	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-May-2020 11:12

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-May-2020 11:12

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: THREE DATA PACKAGES FOR YOUR REVIEW AND APPROVAL.

From David Bosch <DBosch@tpchd.org>
Date Tue 5/26/2020 9:07 AM
To jking perc-nw.com <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Good morning Jeff,

The Tacoma-Pierce County Health Department has reviewed the three data sets dated May 18, 2020 and May 22, 2020 (2). The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III
Environmental Health
(253) 405-8599 c • dbosch@tpchd.org
(253) 798-6498 f • [www.tpchd.org]www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: jking perc-nw.com <jking@perc-nw.com>
Sent: Tuesday, May 26, 2020 8:53 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: THREE DATA PACKAGES FOR YOUR REVIEW AND APPROVAL.

David:

Attached are three data packages for your review and approval. Each sample represents approximately 22 CY of soil.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-135A-051220	0.359	0.0798	8.77
SO-TC-135B-051220	0.287	0.164	8.62

SO-TC-135C-051220	0.392	0.127	8.72
SO-TC-136A-051820	0.189	0.0838	6.76
SO-TC-136B-051820	0.291	0.13	7.81
SO-TC-136C-051820	0.295	0.0711	7.05
SO-TC-137A-051820	0.552	0.685	6.6

Thank you;
Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

18 May 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20E0119

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20E0119		Turn-around Requested: 3 days		Date: 5/12/2020		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)																																																																																																																																																																															
ARI Client Company: PERC		Phone: 425-346-0921		Page: of																																																																																																																																																																																	
Client Contact: Kenny King				No. of Coolers: 8				Cooler Temps: 22.5°C																																																																																																																																																																													
Client Project Name: Superlon				<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="8">Analysis Requested</th> <th colspan="2">Notes/Comments</th> </tr> <tr> <th>TCLP 1311 As/Pb Only</th> <th>pH 9045C</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>								Analysis Requested								Notes/Comments		TCLP 1311 As/Pb Only	pH 9045C									✓	✓									✓	✓									✓	✓																																																																																																																																
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SO-TC-135B-051220	05/12/20	11:40	Soil	1	✓	✓																																																																																																																																																																															
SO-TC-135C-051220	05/12/20	11:50	Soil	1	✓	✓																																																																																																																																																																															
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walte</i>		Relinquished by: (Signature)		Received by: (Signature)																																																																																																																																																																											
				Printed Name: Kenny King		Printed Name: Jacob Walte		Printed Name:		Printed Name:																																																																																																																																																																											
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				Date & Time: 5/12/2020 16:43		Date & Time: 05/12/2020 1643		Date & Time:		Date & Time:																																																																																																																																																																											

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-May-2020 15:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-135A-051220	20E0119-01	Solid	12-May-2020 11:30	12-May-2020 16:43
SO-TC-135B-051220	20E0119-02	Solid	12-May-2020 11:40	12-May-2020 16:43
SO-TC-135C-051220	20E0119-03	Solid	12-May-2020 11:50	12-May-2020 16:43



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-May-2020 15:03

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20E0119

Sample receipt

Samples as listed on the preceding page were received 12-May-2020 16:43 under ARI work order 20E0119. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s) NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other NA

Assigned ARI Job No: 20E0119

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1647

22.5°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# DOQ 5-206

Cooler Accepted by: JA Date: 05/12/2020 Time: 1647

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: KD Date: 5/13/2020 Time: 0838 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

ARI Work Order: 20E0119

Cooler#: _____ Temperature(°C): 22.52

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by JM Date 05/18/2020 Time 1643

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-May-2020 15:03

SO-TC-135A-051220
20E0119-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/12/2020 11:30

Instrument: ICP2 Analyst: SKM

Analyzed: 05/14/2020 19:31

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20E0119-01 A 02

Preparation Batch: BIE0228

Sample Size: 25 mL (wet)

Prepared: 05/14/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.359	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0798	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-May-2020 15:03

SO-TC-135A-051220
20E0119-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/12/2020 11:30

Instrument: Accumet AB150 Analyst: EP

Analyzed: 05/15/2020 14:20

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20E0119-01 A

Preparation Batch: BIE0260

Sample Size: 20.42 g (wet)

Prepared: 05/15/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.77	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-May-2020 15:03

SO-TC-135B-051220
20E0119-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/12/2020 11:40

Instrument: ICP2 Analyst: SKM

Analyzed: 05/14/2020 19:36

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20E0119-02 A 02

Preparation Batch: BIE0228

Sample Size: 25 mL (wet)

Prepared: 05/14/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.287	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.164	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-May-2020 15:03

SO-TC-135B-051220
20E0119-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/12/2020 11:40

Instrument: Accumet AB150 Analyst: EP

Analyzed: 05/15/2020 14:20

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20E0119-02 A

Preparation Batch: BIE0260

Sample Size: 21.05 g (wet)

Prepared: 05/15/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.62	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-May-2020 15:03

SO-TC-135C-051220
20E0119-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/12/2020 11:50

Instrument: ICP2 Analyst: SKM

Analyzed: 05/14/2020 19:40

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20E0119-03 A 02

Preparation Batch: BIE0228

Sample Size: 25 mL (wet)

Prepared: 05/14/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.392	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.127	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-May-2020 15:03

SO-TC-135C-051220
20E0119-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/12/2020 11:50

Instrument: Accumet AB150 Analyst: EP

Analyzed: 05/15/2020 14:20

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20E0119-03 A

Preparation Batch: BIE0260

Sample Size: 21.15 g (wet)

Prepared: 05/15/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	8.72	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-May-2020 15:03

TCLP Metals and Metallic Compounds - Quality Control

Batch BIE0228 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BIE0228-BLK1)					Prepared: 14-May-2020 Analyzed: 14-May-2020 18:25					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-May-2020 15:03

Wet Chemistry - Quality Control

Batch BIE0260 - EPA 9045D

Instrument: Accumet AB150 Analyst: EP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIE0260-BS1)					Prepared: 15-May-2020 Analyzed: 15-May-2020 14:20					
pH	7.02	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BIE0260-DUP1)					Source: 20E0119-01 Prepared: 15-May-2020 Analyzed: 15-May-2020 14:20					
pH	8.79	0.009	0.009	pH Units	8.77			0.23	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-May-2020 15:03

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-May-2020 15:03

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

22 May 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20E0189

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20E0189		Turn-around Requested: 3 days			Date: 5/18/2020		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 425-346-0921			Page: of									
Client Contact: Jeff King					No. of Coolers: 2				Cooler Temps: 24.5°C					
Client Project Name: Superlon					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID		Date	Time	Matrix			No. Containers							
SO-TC-136A-051820	05/18/20	10:35	Soil	1	✓	✓								
SO-TC-136B-051820	05/18/20	10:40	Soil	1	✓	✓								
SO-TC-136C-051820	05/18/20	10:45	Soil	1	✓	✓								
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Jacob Walte</i>			Relinquished by: (Signature)			Received by: (Signature)			
		Printed Name: <i>Kenny King</i>			Printed Name: <i>Jacob Walte</i>			Printed Name:			Printed Name:			
		Company: <i>PERC</i>			Company: <i>ARZ</i>			Company:			Company:			
		Date & Time: <i>5/18/2020 16:46</i>			Date & Time: <i>05/18/2020 1646</i>			Date & Time:			Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-136A-051820	20E0189-01	Solid	18-May-2020 10:35	18-May-2020 16:46
SO-TC-136B-051820	20E0189-02	Solid	18-May-2020 10:40	18-May-2020 16:46
SO-TC-136C-051820	20E0189-03	Solid	18-May-2020 10:45	18-May-2020 16:46



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:21

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20E0189

Sample receipt

Samples as listed on the preceding page were received 18-May-2020 16:46 under ARI work order 20E0189. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20E0189-01 in batch BIE0383. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlan Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other

Assigned ARI Job No: 20E0189

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-5.0 °C for chemistry)

Time 1646

24.5°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by JZ

Date: 05/18/2020

Time 1646

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES NO Date/Time: 05/19/2020 0830 Equipment: NA Split by: NA

Samples Logged by: KD Date 5/19/2020 Time: 0830 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:21

SO-TC-136A-051820
20E0189-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/18/2020 10:35

Instrument: ICP2 Analyst: SKM

Analyzed: 05/21/2020 13:38

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20E0189-01 A 02

Preparation Batch: BIE0345

Sample Size: 25 mL (wet)

Prepared: 05/20/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.189	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0838	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:21

SO-TC-136A-051820
20E0189-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/18/2020 10:35

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 05/20/2020 17:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20E0189-01 A

Preparation Batch: BIE0383

Sample Size: 20.12 g (wet)

Prepared: 05/20/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.76	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:21

SO-TC-136B-051820
20E0189-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/18/2020 10:40

Instrument: ICP2 Analyst: SKM

Analyzed: 05/21/2020 13:43

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20E0189-02 A 02

Preparation Batch: BIE0345

Sample Size: 25 mL (wet)

Prepared: 05/20/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.291	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.130	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:21

SO-TC-136B-051820
20E0189-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/18/2020 10:40

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 05/20/2020 17:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20E0189-02 A

Preparation Batch: BIE0383

Sample Size: 20.15 g (wet)

Prepared: 05/20/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.81	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:21

SO-TC-136C-051820
20E0189-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/18/2020 10:45

Instrument: ICP2 Analyst: SKM

Analyzed: 05/21/2020 13:47

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20E0189-03 A 02

Preparation Batch: BIE0345

Sample Size: 25 mL (wet)

Prepared: 05/20/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.295	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0711	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:21

SO-TC-136C-051820
20E0189-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/18/2020 10:45

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 05/20/2020 17:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20E0189-03 A

Preparation Batch: BIE0383

Sample Size: 20 g (wet)

Prepared: 05/20/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.05	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:21

TCLP Metals and Metallic Compounds - Quality Control

Batch BIE0345 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BIE0345-BLK1)					Prepared: 20-May-2020 Analyzed: 21-May-2020 13:29				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:21

Wet Chemistry - Quality Control

Batch BIE0383 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIE0383-BS1)					Prepared: 20-May-2020 Analyzed: 20-May-2020 17:30					
pH	7.02	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BIE0383-DUP1)					Source: 20E0189-01 Prepared: 20-May-2020 Analyzed: 20-May-2020 17:30					
pH	6.88	0.01	0.01	pH Units	6.76			1.76	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:21

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:21

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

22 May 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20E0190

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 20E0190	Turn-around Requested: 3 days
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Client Contact: **Kenny King**

Client Project Name: **Superlon Plastics**

Client Project #:	SLON	Samplers:	King
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Date: 5/18/2020

Page: of

No. of Coolers:	4	Cooler Temps:	24.5°C
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Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	TCLP 1 As/Pb ()	pH 90							
SO-TC-137A-051820	05/18/20	11:35	Soil	1	✓	✓							
Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Jacob Walter</i>			Relinquished by: (Signature)			Received by: (Signature)			
	Printed Name: <i>Kenny King</i>			Printed Name: <i>Jacob Walter</i>			Printed Name:			Printed Name:			
	Company: <i>PERC</i>			Company: <i>ARR</i>			Company:			Company:			
	Date & Time: <i>5/18/2020 16:46</i>			Date & Time: <i>05/18/2020 1646</i>			Date & Time:			Date & Time:			

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-137A-051820	20E0190-01	Solid	18-May-2020 11:35	18-May-2020 16:46



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:31

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20E0190

Sample receipt

One sample as listed on the preceding page was received 18-May-2020 16:46 under ARI work order 20E0190. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 20E0190

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1646

24.5°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5506

Cooler Accepted by: JK

Date: 05/18/2020

Time: 1646

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by

Samples Logged by: KO Date: 5/19/2020 Time: 0845 Labels checked by: KO

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By:

Date:



Cooler Temperature Compliance Form

Completed by: JS Date: 05/19/2000 Time: 1646

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:31

SO-TC-137A-051820
20E0190-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/18/2020 11:35

Instrument: ICP2 Analyst: SKM

Analyzed: 05/21/2020 13:52

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20E0190-01 A 02

Preparation Batch: BIE0345

Sample Size: 25 mL (wet)

Prepared: 05/20/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.552	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.685	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:31

SO-TC-137A-051820
20E0190-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/18/2020 11:35

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 05/20/2020 17:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20E0190-01 A

Preparation Batch: BIE0383

Sample Size: 20.2 g (wet)

Prepared: 05/20/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.60	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:31

TCLP Metals and Metallic Compounds - Quality Control

Batch BIE0345 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BIE0345-BLK1)					Prepared: 20-May-2020 Analyzed: 21-May-2020 13:29				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:31

Wet Chemistry - Quality Control

Batch BIE0383 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIE0383-BS1)					Prepared: 20-May-2020 Analyzed: 20-May-2020 17:30				
pH	7.02	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:31

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-May-2020 12:31

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Four data packages for your review and approval

From David Bosch <DBosch@tpchd.org>

Date Mon 6/8/2020 2:56 PM

To jking perc-nw.com <jking@perc-nw.com>

Cc kking perc-nw.com <kking@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

Good afternoon Jeff,

The Tacoma-Pierce County Health Department has reviewed the four data sets dated May 27, 2020 and June 8, 2020 (3). The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 405-8599 c • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: jking perc-nw.com <jking@perc-nw.com>

Sent: Monday, June 8, 2020 2:30 PM

To: David Bosch <DBosch@tpchd.org>

Cc: kking perc-nw.com <kking@perc-nw.com>; grimstedb@uspioneer.com

Subject: Four data packages for your review and approval

David:

Attached are four data packages for your review and approval. Thanks – as usual.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-138A-052020	0.294	1.19	8.64
SO-TC-138B-052020	0.197	0.312	8.63

SO-TC-138C-052020	0.117	0.0291	8.76
SO-TC-140A-060120	0.639	0.515	6.63
SO-TC-140B-060120	0.435	1.39	8.37
SO-TC-140C-060120	0.607	0.671	8.68
SO-TC-141A-060220	0.216	0.0547	8.33
SO-TC-141B-060220	0.29	0.479	7.93
SO-TC-141C-060220	0.325	0.176	8.44
SO-TC-142A-060320	0.186	0.0323	8.56
SO-TC-142B-060320	0.318	0.587	8.54
SO-TC-142C-060320	0.158	0.0647	8.67

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

27 May 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20E0226

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2050026 Turn-around Requested: 3 days

ARI Client Company: PERC Phone: 425-346-0921

Client Contact: Kenny King

Client Project Name: Superlon Plastics

Client Project #: SLON Samplers: King

Date: 5/20/2020

Page: of

No. of Coolers: 4 Cooler Temps: 19.9°C



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

					Analysis Requested								Notes/Comments			
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C										
SO-TC-138A-052020	05/20/20	15:20	Soil	1	✓	✓										
SO-TC-138B-052020	05/20/20	15:25	Soil	1	✓	✓										
SO-TC-138C-052020	05/20/20	15:30	Soil	1	✓	✓										
Comments/Special Instructions	Relinquished by: (Signature) <u>Kenny King</u>				Received by: (Signature) <u>Jacob Walte</u>				Relinquished by: (Signature)				Received by: (Signature)			
	Printed Name: <u>Kenny King</u>				Printed Name: <u>Jacob Walte</u>				Printed Name:				Printed Name:			
	Company: <u>PERC</u>				Company: <u>ARZ</u>				Company:				Company:			
	Date & Time: <u>5/20/2020 16:30</u>				Date & Time: <u>05/20/2020 1630</u>				Date & Time:				Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSFP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-May-2020 15:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-138A-052020	20E0226-01	Solid	20-May-2020 15:20	20-May-2020 16:30
SO-TC-138B-052020	20E0226-02	Solid	20-May-2020 15:25	20-May-2020 16:30
SO-TC-138C-052020	20E0226-03	Solid	20-May-2020 15:30	20-May-2020 16:30



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-May-2020 15:46

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20E0226

Sample receipt

One sample as listed on the preceding page was received 20-May-2020 16:30 under ARI work order 20E0226. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20E0226-01 in batch BIE0454. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

Sample specific QC was performed in association with sample 20E0226-01 in batch BIE0419. The duplicate RPD and matrix spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Perc

Project Name: Superior Plaster

COC No(s): 2060226 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 2060226

Tracking No. _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 1630

19.9°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JS

Date: 05/10/2000

Time: 1630

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JS Date: 05/10/2000 Time: 1113 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-May-2020 15:46

SO-TC-138A-052020
20E0226-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/20/2020 15:20

Instrument: ICP2 Analyst: SKM

Analyzed: 05/26/2020 13:56

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20E0226-01 A 02

Preparation Batch: BIE0419

Sample Size: 25 mL (wet)

Prepared: 05/22/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.294	mg/L	
Lead	7439-92-1	5	0.0065	0.100	1.19	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-May-2020 15:46

SO-TC-138A-052020
20E0226-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/20/2020 15:20

Instrument: Accumet AB150 Analyst: JM

Analyzed: 05/26/2020 13:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20E0226-01 A 03

Preparation Batch: BIE0454

Sample Size: 20.02 g (wet)

Prepared: 05/26/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.64	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-May-2020 15:46

SO-TC-138B-052020
20E0226-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/20/2020 15:25

Instrument: ICP2 Analyst: SKM

Analyzed: 05/26/2020 13:23

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20E0226-02 A 02

Preparation Batch: BIE0419

Sample Size: 25 mL (wet)

Prepared: 05/22/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.197	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.312	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-May-2020 15:46

SO-TC-138B-052020
20E0226-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/20/2020 15:25

Instrument: Accumet AB150 Analyst: JM

Analyzed: 05/26/2020 13:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20E0226-02 A 03

Preparation Batch: BIE0454

Sample Size: 20.51 g (wet)

Prepared: 05/26/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.63	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-May-2020 15:46

SO-TC-138C-052020
20E0226-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/20/2020 15:30

Instrument: ICP2 Analyst: SKM

Analyzed: 05/26/2020 13:28

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20E0226-03 A 02

Preparation Batch: BIE0419

Sample Size: 25 mL (wet)

Prepared: 05/22/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.117	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0291	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-May-2020 15:46

SO-TC-138C-052020
20E0226-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/20/2020 15:30

Instrument: Accumet AB150 Analyst: JM

Analyzed: 05/26/2020 13:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20E0226-03 A 03

Preparation Batch: BIE0454

Sample Size: 20.1 g (wet)

Prepared: 05/26/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.76	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-May-2020 15:46

TCLP Metals and Metallic Compounds - Quality Control

Batch BIE0419 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIE0419-BLK1)						Prepared: 22-May-2020 Analyzed: 26-May-2020 13:19					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BIE0419-DUP1)						Source: 20E0226-01 Prepared: 22-May-2020 Analyzed: 26-May-2020 13:51					
Arsenic	0.282	0.0140	0.250	mg/L		0.294			4.00	20	
Lead	1.16	0.0065	0.100	mg/L		1.19			2.03	20	
Matrix Spike (BIE0419-MS1)						Source: 20E0226-01 Prepared: 22-May-2020 Analyzed: 26-May-2020 14:01					
Arsenic	4.43	0.0140	0.250	mg/L	4.00	0.294	103	75-125			
Lead	5.07	0.0065	0.100	mg/L	4.00	1.19	97.2	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-May-2020 15:46

Wet Chemistry - Quality Control

Batch BIE0454 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: JM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIE0454-BS1)										
Prepared: 26-May-2020						Analyzed: 26-May-2020 13:38				
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8			
Duplicate (BIE0454-DUP1)										
		Source: 20E0226-01				Prepared: 26-May-2020		Analyzed: 26-May-2020 13:38		
pH	8.63	0.01	0.01	pH Units	8.64			0.12	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-May-2020 15:46

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-May-2020 15:46

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

08 June 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20F0015

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2060015		Turn-around Requested: 3 days		Date: 6/01/2020		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of					
Client Contact: Kenny King				No. of Coolers: 2 Cooler Temps: 24.5°C					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	pH 9045C				
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-140A-060120	06/01/20	10:35	Soil	1	✓	✓			
SO-TC-140B-060120	06/01/20	10:40	Soil	1	✓	✓			
SO-TC-140C-060120	06/01/20	10:45	Soil	1	✓	✓			
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walter</i>		Relinquished by: (Signature)		Received by: (Signature)	
		Printed Name: Kenny King		Printed Name: Jacob Walter		Printed Name:		Printed Name:	
		Company: PERC		Company: ARI		Company:		Company:	
		Date & Time: 6/1/2020 16:35		Date & Time: 06/01/2020 1635		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 13:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-140A-060120	20F0015-01	Solid	01-Jun-2020 10:35	01-Jun-2020 16:35
SO-TC-140B-060120	20F0015-02	Solid	01-Jun-2020 10:40	01-Jun-2020 16:35
SO-TC-140C-060120	20F0015-03	Solid	01-Jun-2020 10:45	01-Jun-2020 16:35



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 13:54

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20F0015

Sample receipt

Samples as listed on the preceding page were received 01-Jun-2020 16:35 under ARI work order 20F0015. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH- EPA 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20F0015-01. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 20F0015

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 1635 2151

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID# DOO 5206

Cooler Accepted by JB Date 06/01/2020 Time 1635

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: JB Date: 06/01/2020 Time: 1653 Labels checked by: JB

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 13:54

SO-TC-140A-060120
20F0015-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/01/2020 10:35

Instrument: ICP2 Analyst: SKM

Analyzed: 06/05/2020 13:16

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0015-01 A 03

Preparation Batch: BIF0111

Sample Size: 25 mL (wet)

Prepared: 06/04/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.639	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.515	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 13:54

SO-TC-140A-060120
20F0015-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/01/2020 10:35

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 06/04/2020 14:30

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20F0015-01 A

Preparation Batch: BIF0123

Sample Size: 20.278 g (wet)

Prepared: 06/04/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.63	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 13:54

SO-TC-140B-060120
20F0015-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/01/2020 10:40

Instrument: ICP2 Analyst: SKM

Analyzed: 06/05/2020 12:49

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0015-02 A 03

Preparation Batch: BIF0111

Sample Size: 25 mL (wet)

Prepared: 06/04/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.435	mg/L	
Lead	7439-92-1	5	0.0065	0.100	1.39	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 13:54

SO-TC-140B-060120
20F0015-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/01/2020 10:40

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 06/04/2020 14:30

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20F0015-02 A

Preparation Batch: BIF0123

Sample Size: 20.245 g (wet)

Prepared: 06/04/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.37	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 13:54

SO-TC-140C-060120
20F0015-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/01/2020 10:45

Instrument: ICP2 Analyst: SKM

Analyzed: 06/05/2020 12:53

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0015-03 A 03

Preparation Batch: BIF0111

Sample Size: 25 mL (wet)

Prepared: 06/04/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.607	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.671	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 13:54

SO-TC-140C-060120
20F0015-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/01/2020 10:45

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 06/04/2020 14:30

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20F0015-03 A

Preparation Batch: BIF0123

Sample Size: 20.137 g (wet)

Prepared: 06/04/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.68	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 13:54

TCLP Metals and Metallic Compounds - Quality Control

Batch BIF0111 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIF0111-BLK1)						Prepared: 04-Jun-2020 Analyzed: 05-Jun-2020 12:44					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BIF0111-DUP1)						Source: 20F0015-01 Prepared: 04-Jun-2020 Analyzed: 05-Jun-2020 13:11					
Arsenic	0.631	0.0140	0.250	mg/L		0.639			1.32	20	
Lead	0.503	0.0065	0.100	mg/L		0.515			2.35	20	
Matrix Spike (BIF0111-MS1)						Source: 20F0015-01 Prepared: 04-Jun-2020 Analyzed: 05-Jun-2020 13:20					
Arsenic	4.72	0.0140	0.250	mg/L	4.00	0.639	102	75-125			
Lead	4.45	0.0065	0.100	mg/L	4.00	0.515	98.4	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 13:54

Wet Chemistry - Quality Control

Batch BIF0123 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIF0123-BS1)										
					Prepared: 04-Jun-2020		Analyzed: 04-Jun-2020 14:30			
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8			
Duplicate (BIF0123-DUP1)										
					Source: 20F0015-01		Prepared: 04-Jun-2020 Analyzed: 04-Jun-2020 14:30			
pH	6.66	0.01	0.01	pH Units	6.63			0.45	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 13:54

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 13:54

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

08 June 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20F0051

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: <u>2060051</u>	Turn-around Requested: <u>3 days</u>
-------------------------------------	--------------------------------------

Client Contact: **Kenny King**

Client Project Name: **Superlon Plastics**

Client Project #: SLON	Samplers: King
-------------------------------	-----------------------

Date: 6/02/2020

Page: of

No. of Coolers: 0 Cooler Temps: 23.1°C



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-141A-060220	06/02/20	13:45	Soil	1	✓	✓							
SO-TC-141B-060220	06/02/20	13:50	Soil	1	✓	✓							
SO-TC-141C-060220	06/02/20	13:55	Soil	1	✓	✓							
Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Subb Walter</i>			Relinquished by: (Signature)			Received by: (Signature)			
	Printed Name: <i>Kenny King</i>			Printed Name: <i>Subb Walter</i>			Printed Name:			Printed Name:			
	Company: <i>PERC</i>			Company: <i>AIZ</i>			Company:			Company:			
	Date & Time: <i>6/2/2020 16:29</i>			Date & Time: <i>06/02/2020 1629</i>			Date & Time:			Date & Time:			

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-141A-060220	20F0051-01	Solid	02-Jun-2020 13:45	02-Jun-2020 16:29
SO-TC-141B-060220	20F0051-02	Solid	02-Jun-2020 13:50	02-Jun-2020 16:29
SO-TC-141C-060220	20F0051-03	Solid	02-Jun-2020 13:55	02-Jun-2020 16:29



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:01

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20F0051

Sample receipt

Samples as listed on the preceding page were received 02-Jun-2020 16:29 under ARI work order 20F0051. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlan Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No. 20F0051

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1629

23.1°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JJ

Date: 06/06/2020

Time: 1629

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JJ Date: 06/06/2020 Time: 1711 Labels checked by: JJ

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: Isa Date: 06/02/2020 Time: 1629



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:01

SO-TC-141A-060220
20F0051-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/02/2020 13:45

Instrument: ICP2 Analyst: SKM

Analyzed: 06/05/2020 12:58

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0051-01 A 03

Preparation Batch: BIF0111

Sample Size: 25 mL (wet)

Prepared: 06/04/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.216	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0547	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:01

SO-TC-141A-060220
20F0051-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/02/2020 13:45

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 06/04/2020 14:30

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20F0051-01 A

Preparation Batch: BIF0123

Sample Size: 20.416 g (wet)

Prepared: 06/04/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.33	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:01

SO-TC-141B-060220
20F0051-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/02/2020 13:50

Instrument: ICP2 Analyst: SKM

Analyzed: 06/05/2020 13:02

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0051-02 A 03

Preparation Batch: BIF0111

Sample Size: 25 mL (wet)

Prepared: 06/04/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.290	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.479	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:01

SO-TC-141B-060220
20F0051-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/02/2020 13:50

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 06/04/2020 14:30

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20F0051-02 A

Preparation Batch: BIF0123

Sample Size: 21.402 g (wet)

Prepared: 06/04/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	7.93	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:01

SO-TC-141C-060220
20F0051-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/02/2020 13:55

Instrument: ICP2 Analyst: SKM

Analyzed: 06/05/2020 13:07

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0051-03 A 02

Preparation Batch: BIF0111

Sample Size: 25 mL (wet)

Prepared: 06/04/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.325	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.176	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:01

SO-TC-141C-060220
20F0051-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/02/2020 13:55

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 06/04/2020 14:30

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20F0051-03 A

Preparation Batch: BIF0123

Sample Size: 21.809 g (wet)

Prepared: 06/04/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	8.44	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:01

TCLP Metals and Metallic Compounds - Quality Control

Batch BIF0111 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BIF0111-BLK1)					Prepared: 04-Jun-2020 Analyzed: 05-Jun-2020 12:44					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:01

Wet Chemistry - Quality Control

Batch BIF0123 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIF0123-BS1)					Prepared: 04-Jun-2020 Analyzed: 04-Jun-2020 14:30				
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:01

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:01

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

08 June 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20F0061

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 20F0061		Turn-around Requested: 3 days			Date: 6/03/2020		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC			Phone: 425-346-0921		Page: of									
Client Contact: Kenny King			No. of Coolers: 1		Cooler Temps: 26.4°C									
Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID		Date	Time	Matrix										
SO-TC-142A-060320		06/03/20	15:30	Soil	1	✓	✓							
SO-TC-142B-060320		06/03/20	15:35	Soil	1	✓	✓							
SO-TC-142C-060320		06/03/20	15:40	Soil	1	✓	✓							
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Jacob Walter</i>			Relinquished by: (Signature)			Received by: (Signature)			
		Printed Name: <i>Kenny King</i>			Printed Name: <i>Jacob Walter</i>			Printed Name:			Printed Name:			
		Company: <i>PERC</i>			Company: <i>AR2</i>			Company:			Company:			
		Date & Time: <i>6/3/2020 16:37</i>			Date & Time: <i>06/03/2020 1637</i>			Date & Time:			Date & Time:			

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-142A-060320	20F0061-01	Solid	03-Jun-2020 15:30	03-Jun-2020 16:37
SO-TC-142B-060320	20F0061-02	Solid	03-Jun-2020 15:35	03-Jun-2020 16:37
SO-TC-142C-060320	20F0061-03	Solid	03-Jun-2020 15:40	03-Jun-2020 16:37



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:06

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20F0061

Sample receipt

Samples as listed on the preceding page were received 03-Jun-2020 16:37 under ARI work order 20F0061. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Perc
COC No(s): F NA
Assigned ARI Job No: 2070061

Project Name: Superstar Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No. _____ NA

Preliminary Examination Phase: SLF 6/4/2020

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1637 20/12
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID# 000 5266

Cooler Accepted by: JSW Date 06/03/2020 Time: 1637

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? NA YES NO
Date VOC Trip Blank was made at ARI: _____
Were the sample(s) split by ARI? NA YES Date/Time _____ Equipment _____ Split by: _____

Samples Logged by: Only from Date 4/4/2020 Time: 0857 Labels checked by: SLF

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by
00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:06

SO-TC-142A-060320
20F0061-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/03/2020 15:30

Instrument: ICP2 Analyst: SKM

Analyzed: 06/05/2020 17:16

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0061-01 A 03

Preparation Batch: BIF0141

Sample Size: 25 mL (wet)

Prepared: 06/05/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.186	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0323	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:06

SO-TC-142A-060320
20F0061-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/03/2020 15:30

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 06/04/2020 14:30

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20F0061-01 A

Preparation Batch: BIF0123

Sample Size: 20.834 g (wet)

Prepared: 06/04/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.56	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:06

SO-TC-142B-060320
20F0061-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/03/2020 15:35

Instrument: ICP2 Analyst: SKM

Analyzed: 06/05/2020 17:21

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0061-02 A 03

Preparation Batch: BIF0141

Sample Size: 25 mL (wet)

Prepared: 06/05/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.318	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.587	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:06

SO-TC-142B-060320
20F0061-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/03/2020 15:35

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 06/04/2020 14:30

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20F0061-02 A

Preparation Batch: BIF0123

Sample Size: 20.237 g (wet)

Prepared: 06/04/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.54	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:06

SO-TC-142C-060320
20F0061-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/03/2020 15:40

Instrument: ICP2 Analyst: SKM

Analyzed: 06/05/2020 17:25

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0061-03 A 03

Preparation Batch: BIF0141

Sample Size: 25 mL (wet)

Prepared: 06/05/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.158	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0647	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:06

SO-TC-142C-060320
20F0061-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/03/2020 15:40

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 06/04/2020 14:30

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20F0061-03 A

Preparation Batch: BIF0123

Sample Size: 20.072 g (wet)

Prepared: 06/04/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.67	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:06

TCLP Metals and Metallic Compounds - Quality Control

Batch BIF0141 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BIF0141-BLK1)					Prepared: 05-Jun-2020 Analyzed: 05-Jun-2020 17:12					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:06

Wet Chemistry - Quality Control

Batch BIF0123 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIF0123-BS1)					Prepared: 04-Jun-2020 Analyzed: 04-Jun-2020 14:30				
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:06

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Jun-2020 14:06

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Three data packages for your review and approval

From David Bosch <DBosch@tpchd.org>
Date Tue 6/16/2020 7:54 AM
To jking perc-nw.com <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Good morning Jeff,

The Tacoma-Pierce County Health Department has reviewed the three data sets dated June 3, 2020 and June 15, 2020 (2). The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III
Environmental Health
(253) 405-8599 c • dbosch@tpchd.org
(253) 798-6498 f • www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: jking perc-nw.com <jking@perc-nw.com>
Sent: Monday, June 15, 2020 3:57 PM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: Three data packages for your review and approval

David:

Attached are three data packages for your review and approval. Each sample represents approximately 22 CY of soil.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-139A-052620	0.163	0.0164	8.83

SO-TC-139B-052620	0.458	0.157	8.75
SO-TC-139C-052620	0.606	1.34	8.78
SO-TC-143A-060820	1.61	1.52	8.61
SO-TC-143B-060820	0.184	1.06	6.7
SO-TC-143C-060820	0.129	0.511	7.67
SO-TC-144A-060920	0.117	0.1	8.32
SO-TC-144B-060920	0.124	0.0799	8.59
SO-TC-144C-060920	0.108	0.123	8.6

Thanks

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

03 June 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20E0285

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20E0285	Turn-around Requested: 3 days	Date: 5/26/2020
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 8 Cooler Temps: 25.8 °C



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-139A-052620	05/26/20	15:40	Soil	1	✓	✓							
SO-TC-139B-052620	05/26/20	15:45	Soil	1	✓	✓							
SO-TC-139C-052620	05/26/20	15:50	Soil	1	✓	✓							
Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walter</i>		Relinquished by: (Signature)				Received by: (Signature)				
	Printed Name: <i>Kenny King</i>		Printed Name: <i>Jacob Walter</i>		Printed Name:				Printed Name:				
	Company: <i>PERC</i>		Company: <i>ARI</i>		Company:				Company:				
	Date & Time: <i>5/26/2020 16:37</i>		Date & Time: <i>05/26/2020 1637</i>		Date & Time:				Date & Time:				

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Jun-2020 08:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-139A-052620	20E0285-01	Solid	26-May-2020 15:40	26-May-2020 16:37
SO-TC-139B-052620	20E0285-02	Solid	26-May-2020 15:45	26-May-2020 16:37
SO-TC-139C-052620	20E0285-03	Solid	26-May-2020 15:50	26-May-2020 16:37



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Jun-2020 08:47

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20E0285

Sample receipt

Samples as listed on the preceding page were received 26-May-2020 16:37 under ARI work order 20E0285. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20E0285-01 in batch BIE0549. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

Sample specific QC was performed in association with sample 20E0285-01 in batch BIE0533. The duplicate RPD and matrix spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): 20E0285 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 20E0285

Tracking No: _____ CNA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1637

55.8°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JBL

Date: 05/26/2020

Time: 1637

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: _____

Were the sample(s) split by ARI? NA YES

Date/Time: _____

Equipment: _____

Spill by: _____

Samples Logged by: [Signature]

Date: 5/27/2020

Time: 0902

Labels checked by: SLF

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Jun-2020 08:47

SO-TC-139A-052620
20E0285-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/26/2020 15:40

Instrument: ICP2 Analyst: SKM

Analyzed: 06/01/2020 14:36

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20E0285-01 A 03

Preparation Batch: BIE0533

Sample Size: 25 mL (wet)

Prepared: 05/29/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.163	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0164	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Jun-2020 08:47

SO-TC-139A-052620
20E0285-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/26/2020 15:40

Instrument: Accumet AB150 Analyst: JM

Analyzed: 05/29/2020 15:21

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20E0285-01 A

Preparation Batch: BIE0549

Sample Size: 20.24 g (wet)

Prepared: 05/29/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.83	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Jun-2020 08:47

SO-TC-139B-052620
20E0285-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/26/2020 15:45

Instrument: ICP2 Analyst: SKM

Analyzed: 06/01/2020 14:18

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20E0285-02 A 03

Preparation Batch: BIE0533

Sample Size: 25 mL (wet)

Prepared: 05/29/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.458	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.157	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Jun-2020 08:47

SO-TC-139B-052620
20E0285-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/26/2020 15:45

Instrument: Accumet AB150 Analyst: JM

Analyzed: 05/29/2020 15:21

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20E0285-02 A

Preparation Batch: BIE0549

Sample Size: 20.15 g (wet)

Prepared: 05/29/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.75	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Jun-2020 08:47

SO-TC-139C-052620
20E0285-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/26/2020 15:50

Instrument: ICP2 Analyst: SKM

Analyzed: 06/01/2020 14:23

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20E0285-03 A 03

Preparation Batch: BIE0533

Sample Size: 25 mL (wet)

Prepared: 05/29/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.606	mg/L	
Lead	7439-92-1	5	0.0065	0.100	1.34	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Jun-2020 08:47

SO-TC-139C-052620
20E0285-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/26/2020 15:50

Instrument: Accumet AB150 Analyst: JM

Analyzed: 05/29/2020 15:21

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20E0285-03 A

Preparation Batch: BIE0549

Sample Size: 20.1 g (wet)

Prepared: 05/29/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.78	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Jun-2020 08:47

TCLP Metals and Metallic Compounds - Quality Control

Batch BIE0533 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIE0533-BLK1)						Prepared: 29-May-2020 Analyzed: 01-Jun-2020 14:03					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BIE0533-DUP1)						Source: 20E0285-01 Prepared: 29-May-2020 Analyzed: 01-Jun-2020 14:32					
Arsenic	0.161	0.0140	0.250	mg/L		0.163			1.24	20	J
Lead	0.0070	0.0065	0.100	mg/L		0.0164			80.10	20	L, J
Matrix Spike (BIE0533-MS1)						Source: 20E0285-01 Prepared: 29-May-2020 Analyzed: 01-Jun-2020 14:41					
Arsenic	4.50	0.0140	0.250	mg/L	4.00	0.163	109	75-125			
Lead	4.07	0.0065	0.100	mg/L	4.00	0.0164	101	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Jun-2020 08:47

Wet Chemistry - Quality Control

Batch BIE0549 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: JM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BIE0549-BS1)						Prepared: 29-May-2020 Analyzed: 29-May-2020 15:21					
pH	6.97	0.01	0.01	pH Units	7.00		99.6	99.2-100.8			
Duplicate (BIE0549-DUP1)						Source: 20E0285-01 Prepared: 29-May-2020 Analyzed: 29-May-2020 15:21					
pH	8.79	0.01	0.01	pH Units		8.83			0.45	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Jun-2020 08:47

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-Jun-2020 08:47

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

15 June 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20F0127

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20F0127	Turn-around Requested: 5 days	Date: 6/08/2020
ARI Client Company: PERC	Phone: 425-238-2212	Page: of
Client Contact: Jeff King	No. of Coolers: 2	Cooler Temps: 29.7°C



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-143A-060820	06/08/20	11:33	Soil	1	✓	✓							
SO-TC-143B-060820	06/08/20	11:41	Soil	1	✓	✓							
SO-TC-143C-060820	06/08/20	11:44	Soil	1	✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>[Signature]</i> Printed Name: Jeff King Company: PERC Date & Time: 6/8/2020 16:02		Received by: (Signature) <i>[Signature]</i> Printed Name: Jaob Walter Company: ARI Date & Time: 06/08/2020 1602		Relinquished by: (Signature) Printed Name: Company: Date & Time:		Received by: (Signature) Printed Name: Company: Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-143A-060820	20F0127-01	Solid	08-Jun-2020 11:33	08-Jun-2020 16:02
SO-TC-143B-060820	20F0127-02	Solid	08-Jun-2020 11:41	08-Jun-2020 16:02
SO-TC-143C-060820	20F0127-03	Solid	08-Jun-2020 11:44	08-Jun-2020 16:02



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:05

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20F0127

Sample receipt

Samples as listed on the preceding page were received 08-Jun-2020 16:02 under ARI work order 20F0127. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

Sample specific QC was performed in association with sample 20F0127-01 in batch BIF0308. The duplicate RPD and matrix spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastic

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 20F0127

Tracking No. NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1602 28.7°C

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 0005006

Cooler Accepted by: JJ Date: 06/08/2000 Time: 1602

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JJ Date: 06/08/2000 Time: 1609 Labels checked by: JJ

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:05

SO-TC-143A-060820
20F0127-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/08/2020 11:33

Instrument: ICP2 Analyst: SKM

Analyzed: 06/11/2020 19:38

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0127-01 A 03

Preparation Batch: BIF0308

Sample Size: 25 mL (wet)

Prepared: 06/11/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	1.61	mg/L	
Lead	7439-92-1	5	0.0065	0.100	1.52	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:05

SO-TC-143A-060820
20F0127-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/08/2020 11:33

Instrument: Accumet AB150 Analyst: JM

Analyzed: 06/09/2020 16:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20F0127-01 A

Preparation Batch: BIF0224

Sample Size: 20.22 g (wet)

Prepared: 06/09/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.61	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:05

SO-TC-143B-060820
20F0127-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/08/2020 11:41

Instrument: ICP2 Analyst: SKM

Analyzed: 06/11/2020 20:13

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0127-02 A 03

Preparation Batch: BIF0308

Sample Size: 25 mL (wet)

Prepared: 06/11/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.184	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	1.06	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:05

SO-TC-143B-060820
20F0127-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/08/2020 11:41

Instrument: Accumet AB150 Analyst: JM

Analyzed: 06/09/2020 16:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20F0127-02 A

Preparation Batch: BIF0224

Sample Size: 20.09 g (wet)

Prepared: 06/09/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.70	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:05

SO-TC-143C-060820
20F0127-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/08/2020 11:44

Instrument: ICP2 Analyst: SKM

Analyzed: 06/11/2020 20:18

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0127-03 A 03

Preparation Batch: BIF0308

Sample Size: 25 mL (wet)

Prepared: 06/11/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.129	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.511	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:05

SO-TC-143C-060820
20F0127-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/08/2020 11:44

Instrument: Accumet AB150 Analyst: JM

Analyzed: 06/09/2020 16:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20F0127-03 A

Preparation Batch: BIF0224

Sample Size: 20.76 g (wet)

Prepared: 06/09/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.67	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:05

TCLP Metals and Metallic Compounds - Quality Control

Batch BIF0308 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIF0308-BLK1)						Prepared: 11-Jun-2020 Analyzed: 11-Jun-2020 19:20					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BIF0308-DUP1)						Source: 20F0127-01 Prepared: 11-Jun-2020 Analyzed: 11-Jun-2020 19:34					
Arsenic	1.60	0.0140	0.250	mg/L		1.61			0.05	20	
Lead	1.50	0.0065	0.100	mg/L		1.52			1.17	20	
Matrix Spike (BIF0308-MS1)						Source: 20F0127-01 Prepared: 11-Jun-2020 Analyzed: 11-Jun-2020 19:43					
Arsenic	5.63	0.0140	0.250	mg/L	4.00	1.61	101	75-125			
Lead	5.21	0.0065	0.100	mg/L	4.00	1.52	92.2	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:05

Wet Chemistry - Quality Control

Batch BIF0224 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: JM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIF0224-BS1)									
Prepared: 09-Jun-2020 Analyzed: 09-Jun-2020 16:02									
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:05

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:05

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

15 June 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20F0152

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

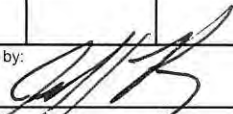
Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20F0152		Turn-around Requested: 3 days		Date: 6/09/2020		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)		
ARI Client Company: PERC		Phone: 425-238-2212		Page: of				
Client Contact: Jeff King		No. of Coolers: 0		Cooler Temps: 21.4				
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	pH 9045C			
Sample ID	Date	Time	Matrix	No. Containers				
SO-TC-144A-060920	06/09/20	14:35	Soil	1	✓	✓		
SO-TC-144B-060920	06/09/20	14:50	Soil	1	✓	✓		
SO-TC-144C-060920	06/09/20	14:56	Soil	1	✓	✓		
Comments/Special Instructions	Relinquished by: 		Received by: 		Relinquished by:		Received by:	
	(Signature)		(Signature)		(Signature)		(Signature)	
	Printed Name: JEFF KING		Printed Name: Kenny Dang		Printed Name:		Printed Name:	
	Company: PERC		Company: ARI		Company:		Company:	
	Date & Time: 6/9/2020 4:35		Date & Time: 6/9/2020 1639		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-144A-060920	20F0152-01	Solid	09-Jun-2020 14:35	09-Jun-2020 16:35
SO-TC-144B-060920	20F0152-02	Solid	09-Jun-2020 14:50	09-Jun-2020 16:35
SO-TC-144C-060920	20F0152-03	Solid	09-Jun-2020 14:56	09-Jun-2020 16:35



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:13

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20F0152

Sample receipt

Samples as listed on the preceding page were received 09-Jun-2020 16:35 under ARI work order 20F0152. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): _____ (NA)
Assigned ARI Job No: 20F0152

Project Name Superion Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No. _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES ☒ NO ☒
Were custody papers included with the cooler? YES ☒ NO ☒
Were custody papers properly filled out (ink, signed, etc.) YES ☒ NO ☒
Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 1635 21.4
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID# DOQ 5 ZCG

Cooler Accepted by: KD Date: 6/19/2020 Time 1635

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES ☒ NO ☒
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs ☒ Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES ☒ NO ☒
How were bottles sealed in plastic bags? Individually ☒ Grouped ☒ Not ☒
Did all bottles arrive in good condition (unbroken)? YES ☒ NO ☒
Were all bottle labels complete and legible? YES ☒ NO ☒
Did the number of containers listed on COC match with the number of containers received? YES ☒ NO ☒
Did all bottle labels and tags agree with custody papers? YES ☒ NO ☒
Were all bottles used correct for the requested analyses? YES ☒ NO ☒
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA ☒ YES ☒ NO ☒
Were all VOC vials free of air bubbles? NA ☒ YES ☒ NO ☒
Was sufficient amount of sample sent in each bottle? YES ☒ NO ☒
Date VOC Trip Blank was made at ARI: NA ☒
Were the sample(s) split by ARI? NA ☒ YES ☒ Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JLH Date: 6/19/2020 Time 1725 Labels checked by: JLH

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: KD

Date: 6/9/2020 Time: 1640

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:13

SO-TC-144A-060920
20F0152-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/09/2020 14:35

Instrument: ICP2 Analyst: SKM

Analyzed: 06/11/2020 20:22

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0152-01 A 02

Preparation Batch: BIF0308

Sample Size: 25 mL (wet)

Prepared: 06/11/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.117	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.100	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:13

SO-TC-144A-060920
20F0152-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/09/2020 14:35

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 06/12/2020 11:52

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20F0152-01 A

Preparation Batch: BIF0361

Sample Size: 20.1 g (wet)

Prepared: 06/12/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.32	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:13

SO-TC-144B-060920
20F0152-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/09/2020 14:50

Instrument: ICP2 Analyst: SKM

Analyzed: 06/11/2020 20:27

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0152-02 A 02

Preparation Batch: BIF0308

Sample Size: 25 mL (wet)

Prepared: 06/11/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.124	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0799	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:13

SO-TC-144B-060920
20F0152-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/09/2020 14:50

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 06/12/2020 11:52

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20F0152-02 A

Preparation Batch: BIF0361

Sample Size: 20.36 g (wet)

Prepared: 06/12/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.59	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:13

SO-TC-144C-060920
20F0152-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/09/2020 14:56

Instrument: ICP2 Analyst: SKM

Analyzed: 06/11/2020 20:31

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0152-03 A 02

Preparation Batch: BIF0308

Sample Size: 25 mL (wet)

Prepared: 06/11/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.108	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.123	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:13

SO-TC-144C-060920
20F0152-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/09/2020 14:56

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 06/12/2020 11:52

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20F0152-03 A

Preparation Batch: BIF0361

Sample Size: 20.06 g (wet)

Prepared: 06/12/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.60	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:13

TCLP Metals and Metallic Compounds - Quality Control

Batch BIF0308 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BIF0308-BLK1)					Prepared: 11-Jun-2020 Analyzed: 11-Jun-2020 19:20					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:13

Wet Chemistry - Quality Control

Batch BIF0361 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIF0361-BS1)									
Prepared: 12-Jun-2020 Analyzed: 12-Jun-2020 11:52									
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:13

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Jun-2020 15:13

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Fw: Three data packages for your review and approval

From Jeff King <jking@perc-nw.com>
Date Mon 11/11/2024 1:53 PM
To jking@percnw.com <jking@percnw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

From: Keith Johnston <KJohnston@tpchd.org>
Sent: Thursday, July 2, 2020 11:40 AM
To: jking perc-nw.com <jking@perc-nw.com>
Cc: EH SolidWaste <EHSolidWaste@tpchd.org>
Subject: RE: Three data packages for your review and approval

Hi Jeff,

I apologize, I was confused on our phone call and thought this needed more processing than it does.

The Tacoma-Pierce County Health Department has reviewed the three data sets dated June 3, 2020 and June 29, 2020. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you,

Keith Johnston, RS

Environmental Health Supervisor

Waste Management/Solid Waste

(253) 798-6561 o • kjohnston@tpchd.org www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

[Waste Disposal Authorization](#)

From: jking perc-nw.com <jking@perc-nw.com>
Sent: Monday, June 29, 2020 5:11 PM

To: Keith Johnston <KJohnston@tpchd.org>
Subject: FW: Three data packages for your review and approval

Keith:

Just saw that David is on vacation. Can you help us with this? It is for the Superlon Project under permit 2427R.

Thanks

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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From: jking perc-nw.com
Sent: Monday, June 29, 2020 5:03 PM
To: David Bosch <DBosch@tpchd.org>
Cc: kking@perc-nw.com
Subject: Three data packages for your review and approval

David:

Attached are three data packages for your review and approval. The following table represents the analytical results. Each sample represents approximately 22 CY of soil.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-146A-061720	0.198	0.322	8.51
SO-TC-146B-061720	0.0954	0.121	8.7
SO-TC-146C-061720	0.0893	0.0276	8.87
SO-TC-147A	0.0385	0.0095	8.5
SO-TC-147A	0.185	0.0801	8.41
SO-TC-147A	0.224	0.0628	8.43
SO-TC-148A-062320	1.88	0.253	8.41
SO-TC-148B-062320	0.822	0.107	8.54
SO-TC-148C-062320	0.217	0.0782	8.61

Thank you;

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

26 June 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20F0310

Associated SDG ID(s)
N/A

Shelly Fishel
Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., cn=Shelly
Fishel, email=shelly.fishel@arilabs.com
Date: 2020.06.26 13:51:41 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

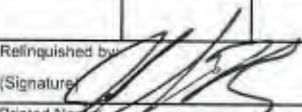
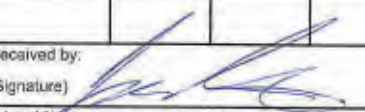
Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20F0310		Turn-around Requested: 3 days		Date: 6/17/2020		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of					
Client Contact: Kenny King		No. of Coolers: 2		Cooler Temps: 31.4°C					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		pH 9045C			
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-146A-061720	06/17/20	11:55	Soil	1	✓	✓			
SO-TC-146B-061720	06/17/20	12:00	Soil	1	✓	✓			
SO-TC-146C-061720	06/17/20	12:05	Soil	1	✓	✓			
Comments/Special Instructions		Relinquished by: (Signature) 		Received by: (Signature) 		Relinquished by: (Signature)		Received by: (Signature)	
		Printed Name: JEFF KING		Printed Name: Jacob Walter		Printed Name:		Printed Name:	
		Company: PERC		Company: ARI2		Company:		Company:	
		Date & Time: 6/17/2020 4:16		Date & Time: 06/17/2020 1616		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-146A-061720	20F0310-01	Solid	17-Jun-2020 11:55	17-Jun-2020 16:16
SO-TC-146B-061720	20F0310-02	Solid	17-Jun-2020 12:00	17-Jun-2020 16:16
SO-TC-146C-061720	20F0310-03	Solid	17-Jun-2020 12:05	17-Jun-2020 16:16



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:49

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20F0310

Sample receipt

Samples as listed on the preceding page were received 17-Jun-2020 16:16 under ARI work order 20F0310. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 20F0310

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1616 31.4°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5006

Cooler Accepted by: JB Date: 06/17/2020 Time: 1616

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? NA YES NO

Date VOC Trip Blank was made at ARI: _____

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: [Signature] Date: 6/17/2020 Time: 1618 Labels checked by: SLF

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 20F0310

Cooler#: _____ Temperature(°C): 31.9°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received
above 6°C

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: JS

Date: 06/17/2020 Time: 1616

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:49

SO-TC-146A-061720
20F0310-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/17/2020 11:55

Instrument: ICP2 Analyst: TCH

Analyzed: 06/26/2020 00:55

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0310-01 A 03

Preparation Batch: BIF0652

Sample Size: 25 mL (wet)

Prepared: 06/23/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.198	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.322	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:49

SO-TC-146A-061720
20F0310-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/17/2020 11:55

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 06/22/2020 14:08

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20F0310-01 A

Preparation Batch: BIF0621

Sample Size: 20.125 g (wet)

Prepared: 06/22/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.51	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:49

SO-TC-146B-061720
20F0310-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/17/2020 12:00

Instrument: ICP2 Analyst: TCH

Analyzed: 06/26/2020 00:59

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0310-02 A 03

Preparation Batch: BIF0652

Sample Size: 25 mL (wet)

Prepared: 06/23/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0954	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.121	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:49

SO-TC-146B-061720
20F0310-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/17/2020 12:00

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 06/22/2020 14:08

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20F0310-02 A

Preparation Batch: BIF0621

Sample Size: 20.307 g (wet)

Prepared: 06/22/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.70	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:49

SO-TC-146C-061720
20F0310-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/17/2020 12:05

Instrument: ICP2 Analyst: TCH

Analyzed: 06/26/2020 01:04

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0310-03 A 03

Preparation Batch: BIF0652

Sample Size: 25 mL (wet)

Prepared: 06/23/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0893	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0276	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:49

SO-TC-146C-061720
20F0310-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/17/2020 12:05

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 06/22/2020 14:08

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20F0310-03 A

Preparation Batch: BIF0621

Sample Size: 20.205 g (wet)

Prepared: 06/22/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.87	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:49

TCLP Metals and Metallic Compounds - Quality Control

Batch BIF0652 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BIF0652-BLK1)					Prepared: 23-Jun-2020 Analyzed: 25-Jun-2020 23:27					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	0.0104	0.0065	0.100	mg/L						J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:49

Wet Chemistry - Quality Control

Batch BIF0621 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIF0621-BS1)					Prepared: 22-Jun-2020 Analyzed: 22-Jun-2020 14:08				
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:49

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:49

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

26 June 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20F0367

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., cn=Shelly
Fishel, email=shelly.fishel@arilabs.com
Date: 2020.06.26 13:58:20 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

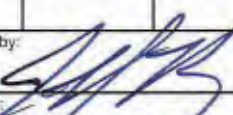
Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20F0367		Turn-around Requested: 3 days		Date: 6/22/2020		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-238-2212		Page: of					
Client Contact: Jeff King		No. of Coolers: 0		Cooler Temps: 27.9					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		pH 9045C			
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-147A-062220	06/22/20	15:47	Soil	1	✓	✓			
SO-TC-147B-062220	06/22/20	15:52	Soil	1	✓	✓			
SO-TC-147C-062220	06/22/20	15:57	Soil	1	✓	✓			
Comments/Special Instructions				Relinquished by:  (Signature) Printed Name: JEFF KING Company: PERC Date & Time: 6/22/2020 4:42		Received by:  (Signature) Printed Name: Kenny Dang Company: ARI Date & Time: 6/22/2020 1642		Relinquished by: (Signature) Printed Name: Company: Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-147A	20F0367-01	Solid	22-Jun-2020 15:47	22-Jun-2020 16:42
SO-TC-147B	20F0367-02	Solid	22-Jun-2020 15:52	22-Jun-2020 16:42
SO-TC-147C	20F0367-03	Solid	22-Jun-2020 15:57	22-Jun-2020 16:42



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:56

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20F0367

Sample receipt

Samples as listed on the preceding page were received 22-Jun-2020 16:42 under ARI work order 20F0367. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20F0367-01 in batch BIF0702. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 20F0367

Tracking No: _____

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES

NO

Were custody papers included with the cooler? _____

YES

NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES

NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) _____

Time 1642

27.4

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# DOO5C66

Cooler Accepted by: KO

Date 6/22/2020

Time: 1642

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES

NO

What kind of packing material was used? _____

Bubble Wrap Woolite Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA

YES

NO

How were bottles sealed in plastic bags? _____

Individually

Grouped

NO

Did all bottles arrive in good condition (unbroken)? _____

YES

NO

Were all bottle labels complete and legible? _____

YES

NO

Did the number of containers listed on COC match with the number of containers received? _____

YES

NO

Did all bottle labels and tags agree with custody papers? _____

YES

NO

Were all bottles used correct for the requested analyses? _____

YES

NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) _____

NA

YES

NO

Were all VOC vials free of air bubbles? _____

NA

YES

NO

Was sufficient amount of sample sent in each bottle? _____

NA

YES

NO

Date VOC Trip Blank was made at ARI? _____

NA

Were the sample(s) split by ARI? _____

NA

YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: Only for

Date: 6/23/2020

Time: 0738

Labels checked by: SLF

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By _____ Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:56

SO-TC-147A
20F0367-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/22/2020 15:47

Instrument: ICP2 Analyst: TCH

Analyzed: 06/26/2020 01:13

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0367-01 A 03

Preparation Batch: BIF0703

Sample Size: 25 mL (wet)

Prepared: 06/24/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0385	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0095	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:56

SO-TC-147A
20F0367-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/22/2020 15:47

Instrument: Accumet AB150 Analyst: JM

Analyzed: 06/24/2020 12:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20F0367-01 A 01

Preparation Batch: BIF0702

Sample Size: 20.38 g (wet)

Prepared: 06/24/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.50	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:56

SO-TC-147B
20F0367-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/22/2020 15:52

Instrument: ICP2 Analyst: TCH

Analyzed: 06/26/2020 01:17

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0367-02 A 02

Preparation Batch: BIF0703

Sample Size: 25 mL (wet)

Prepared: 06/24/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.185	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0801	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:56

SO-TC-147B
20F0367-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/22/2020 15:52

Instrument: Accumet AB150 Analyst: JM

Analyzed: 06/24/2020 12:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20F0367-02 A 01

Preparation Batch: BIF0702

Sample Size: 20.11 g (wet)

Prepared: 06/24/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.41	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:56

SO-TC-147C
20F0367-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/22/2020 15:57

Instrument: ICP2 Analyst: TCH

Analyzed: 06/26/2020 01:22

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0367-03 A 02

Preparation Batch: BIF0703

Sample Size: 25 mL (wet)

Prepared: 06/24/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.224	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0628	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:56

SO-TC-147C
20F0367-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/22/2020 15:57

Instrument: Accumet AB150 Analyst: JM

Analyzed: 06/24/2020 12:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20F0367-03 A 01

Preparation Batch: BIF0702

Sample Size: 20.3 g (wet)

Prepared: 06/24/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.43	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:56

TCLP Metals and Metallic Compounds - Quality Control

Batch BIF0703 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BIF0703-BLK1)					Prepared: 24-Jun-2020 Analyzed: 26-Jun-2020 00:41					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:56

Wet Chemistry - Quality Control

Batch BIF0702 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: JM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIF0702-BS1)										
					Prepared: 24-Jun-2020	Analyzed: 24-Jun-2020 12:03				
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8			
Duplicate (BIF0702-DUP1)										
		Source: 20F0367-01			Prepared: 24-Jun-2020		Analyzed: 24-Jun-2020 12:03			
pH	8.51	0.01	0.01	pH Units	8.50	0.12	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:56

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Jun-2020 13:56

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

29 June 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20F0384

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., cn=Shelly
Fishel, email=shelly.fishel@arilabs.com
Date: 2020.06.29 14:04:08 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Jun-2020 14:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-148A-062320	20F0384-01	Solid	23-Jun-2020 15:00	23-Jun-2020 16:41
SO-TC-148B-062320	20F0384-02	Solid	23-Jun-2020 15:05	23-Jun-2020 16:41
SO-TC-148C-062320	20F0384-03	Solid	23-Jun-2020 15:10	23-Jun-2020 16:41



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Jun-2020 14:00

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20F0384

Sample receipt

Samples as listed on the preceding page were received 23-Jun-2020 16:41 under ARI work order 20F0384. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC
COC No(s): _____ (NA)
Assigned ARI Job No: 20F0384

Project Name: Super Ion Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1641 29.9
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO S206

Cooler Accepted by: KD Date: 6/23/2020 Time: 1641

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI... NA
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

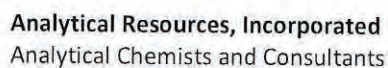
Samples Logged by: JSN Date: 06/23/2020 Time: 1706 Labels checked by: JSN

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: KD Date: 6/23/2020 Time: 64

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Jun-2020 14:00

SO-TC-148A-062320
20F0384-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/23/2020 15:00

Instrument: ICP2 Analyst: TCH

Analyzed: 06/26/2020 21:03

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0384-01 A 03

Preparation Batch: BIF0742

Sample Size: 25 mL (wet)

Prepared: 06/25/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	1.88	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.253	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Jun-2020 14:00

SO-TC-148A-062320
20F0384-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/23/2020 15:00

Instrument: Accumet AB150 Analyst: JM

Analyzed: 06/24/2020 12:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20F0384-01 A 01

Preparation Batch: BIF0702

Sample Size: 20.13 g (wet)

Prepared: 06/24/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.41	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Jun-2020 14:00

SO-TC-148B-062320
20F0384-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/23/2020 15:05

Instrument: ICP2 Analyst: TCH

Analyzed: 06/26/2020 21:08

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0384-02 A 03

Preparation Batch: BIF0742

Sample Size: 25 mL (wet)

Prepared: 06/25/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.822	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.107	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Jun-2020 14:00

SO-TC-148B-062320
20F0384-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/23/2020 15:05

Instrument: Accumet AB150 Analyst: JM

Analyzed: 06/24/2020 12:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20F0384-02 A 01

Preparation Batch: BIF0702

Sample Size: 20.92 g (wet)

Prepared: 06/24/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.54	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Jun-2020 14:00

SO-TC-148C-062320
20F0384-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/23/2020 15:10

Instrument: ICP2 Analyst: TCH

Analyzed: 06/26/2020 21:22

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0384-03 A 03

Preparation Batch: BIF0742

Sample Size: 25 mL (wet)

Prepared: 06/25/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.217	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0782	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Jun-2020 14:00

SO-TC-148C-062320
20F0384-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/23/2020 15:10

Instrument: Accumet AB150 Analyst: JM

Analyzed: 06/24/2020 12:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20F0384-03 A 01

Preparation Batch: BIF0702

Sample Size: 20.22 g (wet)

Prepared: 06/24/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.61	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Jun-2020 14:00

TCLP Metals and Metallic Compounds - Quality Control

Batch BIF0742 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BIF0742-BLK1)					Prepared: 25-Jun-2020 Analyzed: 25-Jun-2020 22:19					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Jun-2020 14:00

Wet Chemistry - Quality Control

Batch BIF0702 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: JM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIF0702-BS1)									
Prepared: 24-Jun-2020 Analyzed: 24-Jun-2020 12:03									
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Jun-2020 14:00

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Jun-2020 14:00

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Attached are three data packages for your review and approval - Superlon Plastics Annual Permit 2427-R

From Keith Johnston <KJohnston@tpchd.org>

Date Mon 7/13/2020 1:01 PM

To jking perc-nw.com <jking@perc-nw.com>

Cc kking perc-nw.com <kking@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

Good morning Jeff,

The Tacoma-Pierce County Health Department has reviewed the three data sets in your email dated July 13, 2020. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you,

Keith Johnston, RS

Environmental Health Supervisor

Waste Management/Solid Waste

(253) 798-6561 o • kjohnston@tpchd.org www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

[Waste Disposal Authorization](#)

From: jking perc-nw.com <jking@perc-nw.com>

Sent: Monday, July 13, 2020 11:23 AM

To: Keith Johnston <KJohnston@tpchd.org>

Cc: kking perc-nw.com <kking@perc-nw.com>; grimstedb@uspioneer.com

Subject: Attached are three data packages for your review and approval - Superlon Plastics Annual Permit 2427-R

Keith:

I see that David is still on vacation so if you could help us again we would appreciate it. This request is for the Superlon Plastics Property located at 2116 Taylor Way, Tacoma, WA. Annual permit number 2427-R.

Attached are three data packages for your review and approval. Each sample represents approximately 22 CY of soil. The following table lists the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-149A-062520	0.837	0.845	8.35
SO-TC-149B-062520	0.22	0.0081	8.54
SO-TC-149C-062520	1	ND	8.84
SO-TC-150A-062920	0.059	ND	9.19
SO-TC-150B-062920	0.0902	0.0192	9.14
SO-TC-150C-062920	0.133	ND	9.2
SO-TC-151A-063020	0.0958	ND	8.66
SO-TC-151B-063020	0.104	0.0277	8.56
SO-TC-151C-063020	0.0531	ND	8.81

Thank you
Jeff



Analytical Resources, Incorporated
Analytical Chemists and Consultants

07 July 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20F0429

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20F0429	Turn-around Requested: 10 days
ARI Client Company: PERC	Phone: 425-346-0921
Client Contact: Kenny King	
Client Project Name: Superlon Plastics	
Client Project #: SLON	Samplers: King

Date:	6/25/2020		
Page:	of		
No. of Coolers:	4	Cooler Temps:	25.6°C



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	TCLP 1 As/Pb C	pH 904							
SO-TC-149A-062520	06/25/20	11:10	Soil	1	✓	✓							
SO-TC-149B-062520	06/25/20	11:15	Soil	1	✓	✓							
SO-TC-149C-062520	06/25/20	11:20	Soil	1	✓	✓							
Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Jacob Walter</i>			Relinquished by: (Signature)			Received by: (Signature)			
	Printed Name: Kenny King			Printed Name: Jacob Walter			Printed Name:			Printed Name:			
	Company: PERC			Company: A62			Company:			Company:			
	Date & Time: 6/25/2020 12:38			Date & Time: 06/25/2020 1238			Date & Time:			Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSSDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 09:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-149A-062520	20F0429-01	Solid	25-Jun-2020 11:10	25-Jun-2020 12:38
SO-TC-149B-062520	20F0429-02	Solid	25-Jun-2020 11:15	25-Jun-2020 12:38
SO-TC-149C-062520	20F0429-03	Solid	25-Jun-2020 11:20	25-Jun-2020 12:38



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 09:09

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20F0429

Sample receipt

Samples as listed on the preceding page were received 25-Jun-2020 12:38 under ARI work order 20F0429. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20F0429-01 in batch BIG0102. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

Sample specific QC was performed in association with sample 20F0429-01 in batch BIF0883. The duplicate RPD and matrix spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 20F0429

Tracking No. NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (lnk, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 1238 25.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# DOO5106

Cooler Accepted by ISB Date 06/25/2020 Time 1238

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? NA YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES NO

Samples Logged by [Signature] Date 6/25/2020 Time 1307 Labels checked by SUF

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 09:09

SO-TC-149A-062520
20F0429-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/25/2020 11:10

Instrument: ICP2 Analyst: TCH

Analyzed: 06/30/2020 18:15

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0429-01 A 02

Preparation Batch: BIF0883

Sample Size: 25 mL (wet)

Prepared: 06/30/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.837	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.845	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 09:09

SO-TC-149A-062520
20F0429-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/25/2020 11:10

Instrument: Accumet AB150 Analyst: JM

Analyzed: 07/06/2020 15:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20F0429-01 A 03

Preparation Batch: BIG0102

Sample Size: 20.33 g (wet)

Prepared: 07/06/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.35	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 09:09

SO-TC-149B-062520
20F0429-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/25/2020 11:15

Instrument: ICP2 Analyst: TCH

Analyzed: 06/30/2020 18:48

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0429-02 A 02

Preparation Batch: BIF0883

Sample Size: 25 mL (wet)

Prepared: 06/30/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.220	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0081	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 09:09

SO-TC-149B-062520
20F0429-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/25/2020 11:15

Instrument: Accumet AB150 Analyst: JM

Analyzed: 07/06/2020 15:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20F0429-02 A 03

Preparation Batch: BIG0102

Sample Size: 20.15 g (wet)

Prepared: 07/06/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.54	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 09:09

SO-TC-149C-062520
20F0429-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/25/2020 11:20

Instrument: ICP2 Analyst: TCH

Analyzed: 06/30/2020 18:53

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0429-03 A 02

Preparation Batch: BIF0883

Sample Size: 25 mL (wet)

Prepared: 06/30/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	1.00	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 09:09

SO-TC-149C-062520
20F0429-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/25/2020 11:20

Instrument: Accumet AB150 Analyst: JM

Analyzed: 07/06/2020 15:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20F0429-03 A 03

Preparation Batch: BIG0102

Sample Size: 20.19 g (wet)

Prepared: 07/06/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.84	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 09:09

TCLP Metals and Metallic Compounds - Quality Control

Batch BIF0883 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIF0883-BLK1)						Prepared: 30-Jun-2020 Analyzed: 30-Jun-2020 18:01					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BIF0883-DUP1)						Source: 20F0429-01 Prepared: 30-Jun-2020 Analyzed: 30-Jun-2020 18:10					
Arsenic	0.855	0.0140	0.250	mg/L		0.837			2.11	20	
Lead	0.850	0.0065	0.100	mg/L		0.845			0.52	20	
Matrix Spike (BIF0883-MS1)						Source: 20F0429-01 Prepared: 30-Jun-2020 Analyzed: 30-Jun-2020 18:19					
Arsenic	4.80	0.0140	0.250	mg/L	4.00	0.837	99.1	75-125			
Lead	4.64	0.0065	0.100	mg/L	4.00	0.845	95.0	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 09:09

Wet Chemistry - Quality Control

Batch BIG0102 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: JM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BIG0102-BS1)						Prepared: 06-Jul-2020 Analyzed: 06-Jul-2020 15:15					
pH	6.99	0.01	0.01	pH Units	7.00		99.9	99.2-100.8			
Duplicate (BIG0102-DUP1)						Source: 20F0429-01 Prepared: 06-Jul-2020 Analyzed: 06-Jul-2020 15:15					
pH	8.39	0.01	0.01	pH Units		8.35			0.48	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 09:09

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 09:09

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

07 July 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20F0484

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 20F0484		Turn-around Requested: 3 days			Date: 6/29/2020				Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC			Phone: 425-346-0921			Page: of										
Client Contact: Kenny King			No. of Coolers: 1			Cooler Temps: 26.5										
Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments			
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only		pH 9045C									
Sample ID	Date	Time	Matrix	No. Containers												
SO-TC-150A-062920	06/29/20	15:20	Soil	1	✓	✓										
SO-TC-150B-062920	06/29/20	15:25	Soil	1	✓	✓										
SO-TC-150C-062920	06/29/20	15:30	Soil	1	✓	✓										
Comments/Special Instructions	Relinquished by: (Signature) Kenny King			Received by: (Signature) Shelly L Fisher			Relinquished by: (Signature)			Received by: (Signature)						
	Printed Name: Kenny King			Printed Name: Shelly L Fisher			Printed Name:			Printed Name:						
	Company: PERC			Company: ARI			Company:			Company:						
	Date & Time: 6/29/20 16:39			Date & Time: 6/29/2020 16:39			Date & Time:			Date & Time:						

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to AR, will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 14:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-150A-062920	20F0484-01	Solid	29-Jun-2020 15:20	29-Jun-2020 16:39
SO-TC-150B-062920	20F0484-02	Solid	29-Jun-2020 15:25	29-Jun-2020 16:39
SO-TC-150C-062920	20F0484-03	Solid	29-Jun-2020 15:30	29-Jun-2020 16:39



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 14:04

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20F0484

Sample receipt

Samples as listed on the preceding page were received 29-Jun-2020 16:39 under ARI work order 20F0484. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH- EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

Sample specific QC was performed in association with sample 20F0484-01 in batch BIG0041. The duplicate RPD and matrix spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: SLOIN

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 20F0484

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 11:39

26.5

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: [Signature] Date: 6/29/2020 Time: 11:39

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? _____ Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: none

Was sufficient ice used (if appropriate)? _____

NA YES NO

How were bottles sealed in plastic bags? _____

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) _____

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

NA YES NO

Date VOC Trip Blank was made at ARI _____

Were the sample(s) split by ARI? NA YES

Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: [Signature] Date: 6/29/2020 Time: 11:45 Labels checked by: SLF

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 20F0484

Cooler#: 1 Temperature(°C): 26.5

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

All samples above 6.0°C

all jars

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: [Signature]

Date: 6/24/20

Time: 11:39

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 14:04

SO-TC-150A-062920
20F0484-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/29/2020 15:20

Instrument: ICP2 Analyst: TCH

Analyzed: 07/06/2020 14:00

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0484-01 A 02

Preparation Batch: BIG0041

Sample Size: 25 mL (wet)

Prepared: 07/02/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0590	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 14:04

SO-TC-150A-062920
20F0484-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/29/2020 15:20

Instrument: Accumet AB150 Analyst: JM

Analyzed: 07/06/2020 15:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20F0484-01 A 03

Preparation Batch: BIG0102

Sample Size: 20.14 g (wet)

Prepared: 07/06/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.19	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 14:04

SO-TC-150B-062920
20F0484-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/29/2020 15:25

Instrument: ICP2 Analyst: TCH

Analyzed: 07/06/2020 13:46

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0484-02 A 02

Preparation Batch: BIG0041

Sample Size: 25 mL (wet)

Prepared: 07/02/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0902	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0192	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 14:04

SO-TC-150B-062920
20F0484-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/29/2020 15:25

Instrument: Accumet AB150 Analyst: JM

Analyzed: 07/06/2020 15:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20F0484-02 A 03

Preparation Batch: BIG0102

Sample Size: 20.12 g (wet)

Prepared: 07/06/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.14	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 14:04

SO-TC-150C-062920
20F0484-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/29/2020 15:30

Instrument: ICP2 Analyst: TCH

Analyzed: 07/06/2020 13:51

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0484-03 A 02

Preparation Batch: BIG0041

Sample Size: 25 mL (wet)

Prepared: 07/02/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.133	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 14:04

SO-TC-150C-062920
20F0484-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/29/2020 15:30

Instrument: Accumet AB150 Analyst: JM

Analyzed: 07/06/2020 15:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20F0484-03 A 03

Preparation Batch: BIG0102

Sample Size: 2029 g (wet)

Prepared: 07/06/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.0001	0.0001	9.20	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 14:04

TCLP Metals and Metallic Compounds - Quality Control

Batch BIG0041 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIG0041-BLK1)						Prepared: 02-Jul-2020 Analyzed: 06-Jul-2020 13:24					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BIG0041-DUP1)						Source: 20F0484-01 Prepared: 02-Jul-2020 Analyzed: 06-Jul-2020 13:55					
Arsenic	0.0520	0.0140	0.250	mg/L		0.0590			12.50	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BIG0041-MS1)						Source: 20F0484-01 Prepared: 02-Jul-2020 Analyzed: 06-Jul-2020 14:05					
Arsenic	4.24	0.0140	0.250	mg/L	4.00	0.0590	105	75-125			
Lead	4.02	0.0065	0.100	mg/L	4.00	ND	101	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 14:04

Wet Chemistry - Quality Control

Batch BIG0102 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: JM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIG0102-BS1)						Prepared: 06-Jul-2020 Analyzed: 06-Jul-2020 15:15				
pH	6.99	0.01	0.01	pH Units	7.00	99.9	99.2-100.8			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 14:04

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 14:04

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

07 July 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20F0506

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20F0506		Turn-around Requested: 3 days		Date: 6/30/2020		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)		
ARI Client Company: PERC		Phone: 425-346-0921		Page: of				
Client Contact: Kenny King				No. of Coolers: 1 Cooler Temps: 22.6				
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	pH 9045C			
Sample ID	Date	Time	Matrix	No. Containers				
SO-TC-151A-063020	06/30/20	10:40	Soil	1	✓	✓		
SO-TC-151B-063020	06/30/20	10:45	Soil	1	✓	✓		
SO-TC-151C-063020	06/30/20	10:50	Soil	1	✓	✓		
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Kenny Dang</i>		
				Printed Name: Kenny King		Printed Name: Kenny Dang		
				Company: PERC		Company: ARI		
				Date & Time: 6/30/2020 16:47		Date & Time: 6/30/2020 1647		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 13:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-151A-063020	20F0506-01	Solid	30-Jun-2020 10:40	30-Jun-2020 16:47
SO-TC-151B-063020	20F0506-02	Solid	30-Jun-2020 10:45	30-Jun-2020 16:47
SO-TC-151C-063020	20F0506-03	Solid	30-Jun-2020 10:50	30-Jun-2020 16:47



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 13:55

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20F0506

Sample receipt

Samples as listed on the preceding page were received 30-Jun-2020 16:47 under ARI work order 20F0506. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH- EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): _____
Assigned ARI Job No: 20F0506

Project Name: Superlon plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No. _____

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES ☒ NO ☐
Were custody papers included with the cooler? YES ☒ NO ☐
Were custody papers properly filled out (ink, signed, etc.) YES ☒ NO ☐
Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 1647 22.6
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO 5209

Cooler Accepted by: EO Date: 6/30/20 Time: 1647

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES ☒ NO ☐
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs ☒ Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES ☒ NO ☐
How were bottles sealed in plastic bags? Individually ☒ Grouped ☐ Not ☐
Did all bottles arrive in good condition (unbroken)? YES ☒ NO ☐
Were all bottle labels complete and legible? YES ☒ NO ☐
Did the number of containers listed on COC match with the number of containers received? YES ☒ NO ☐
Did all bottle labels and tags agree with custody papers? YES ☒ NO ☐
Were all bottles used correct for the requested analyses? YES ☒ NO ☐
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES ☐ NO ☒
Were all VOC vials free of air bubbles? NA YES ☐ NO ☒
Was sufficient amount of sample sent in each bottle? YES ☒ NO ☐
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES ☐ Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JSV Date: 6/30/2020 Time: 1700 Labels checked by: JSV

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

00070F



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 13:55

SO-TC-151A-063020
20F0506-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/30/2020 10:40

Instrument: ICP2 Analyst: TCH

Analyzed: 07/06/2020 14:19

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0506-01 A 02

Preparation Batch: BIG0041

Sample Size: 25 mL (wet)

Prepared: 07/02/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0958	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 13:55

SO-TC-151A-063020
20F0506-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/30/2020 10:40

Instrument: Accumet AB150 Analyst: JM

Analyzed: 07/06/2020 15:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20F0506-01 A 03

Preparation Batch: BIG0102

Sample Size: 20.14 g (wet)

Prepared: 07/06/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.66	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 13:55

SO-TC-151B-063020
20F0506-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/30/2020 10:45

Instrument: ICP2 Analyst: TCH

Analyzed: 07/06/2020 14:23

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0506-02 A 02

Preparation Batch: BIG0041

Sample Size: 25 mL (wet)

Prepared: 07/02/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.104	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0277	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 13:55

SO-TC-151B-063020
20F0506-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/30/2020 10:45

Instrument: Accumet AB150 Analyst: JM

Analyzed: 07/06/2020 15:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20F0506-02 A 03

Preparation Batch: BIG0102

Sample Size: 20.16 g (wet)

Prepared: 07/06/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.56	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 13:55

SO-TC-151C-063020
20F0506-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 06/30/2020 10:50

Instrument: ICP2 Analyst: TCH

Analyzed: 07/06/2020 14:28

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20F0506-03 A 02

Preparation Batch: BIG0041

Sample Size: 25 mL (wet)

Prepared: 07/02/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0531	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 13:55

SO-TC-151C-063020
20F0506-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/30/2020 10:50

Instrument: Accumet AB150 Analyst: JM

Analyzed: 07/06/2020 15:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20F0506-03 A 03

Preparation Batch: BIG0102

Sample Size: 20.14 g (wet)

Prepared: 07/06/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.81	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 13:55

TCLP Metals and Metallic Compounds - Quality Control

Batch BIG0041 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIG0041-BLK1)						Prepared: 02-Jul-2020 Analyzed: 06-Jul-2020 13:24					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 13:55

Wet Chemistry - Quality Control

Batch BIG0102 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: JM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIG0102-BS1)									
Prepared: 06-Jul-2020 Analyzed: 06-Jul-2020 15:15									
pH	6.99	0.01	0.01	pH Units	7.00	99.9	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 13:55

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Jul-2020 13:55

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Fw: Two data packages for your review and approval

From Jeff King <jking@perc-nw.com>
Date Mon 11/11/2024 1:47 PM
To jking@percnw.com <jking@percnw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

From: David Bosch <DBosch@tpchd.org>
Sent: Tuesday, July 21, 2020 11:55 AM
To: jking perc-nw.com <jking@perc-nw.com>
Subject: RE: Two data packages for your review and approval

Good morning Jeff,

The Tacoma-Pierce County Health Department has reviewed the two lab data sets dated July 21, 2020. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 405-8599 c • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: jking perc-nw.com <jking@perc-nw.com>
Sent: Tuesday, July 21, 2020 11:33 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: Two data packages for your review and approval

David:

Attached are two data packages for your review and approval. Each sample represents approximately 22 CY of soil. The following table lists the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-152A-071420	0.193	0.156	7.95
SO-TC-152B-071420	0.403	0.981	8.12
SO-TC-152C-071420	0.572	1.09	8.37
SO-TC-153A-071520	0.311	0.269	8.34
SO-TC-153A-071520	0.244	0.763	8.33
SO-TC-153A-071520	0.68	0.053	8.24

Thanks again.

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

21 July 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20G0158

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington,
l=Tukwila, o=Analytical Resources,
Inc., cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2020.07.21 11:08:39 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: <u>20G0158</u>		Turn-around Requested: <u>3 days</u>		Date: <u>7/14/2020</u>		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)		
ARI Client Company: <u>PERC</u>		Phone: <u>425-238-2212</u>		Page: <u>of</u>				
Client Contact: <u>Jeff King</u>				No. of Coolers: <u>2</u> Cooler Temps: <u>28.8</u>				
Client Project Name: <u>Superlon Plastics</u>				Analysis Requested				Notes/Comments
Client Project #: <u>SLON</u>		Samplers: <u>King</u>		TCLP 1311 As/Pb Only	pH 9045C			
Sample ID	Date	Time	Matrix	No. Containers				
SO-TC-152A-071420	07/14/20	08:30	Soil	1	✓	✓		
SO-TC-152B-071420	07/14/20	08:35	Soil	1	✓	✓		
SO-TC-152C-071420	07/14/20	08:40	Soil	1	✓	✓		
Comments/Special Instructions				Relinquished by: (Signature) <u>[Signature]</u>	Received by: (Signature) <u>[Signature]</u>	Relinquished by: (Signature)	Received by: (Signature)	
				Printed Name: <u>JEFF KING</u>	Printed Name: <u>Jacob Walter</u>	Printed Name:	Printed Name:	
				Company: <u>PERC</u>	Company: <u>ARI</u>	Company:	Company:	
				Date & Time: <u>7/14/2020 16:21</u>	Date & Time: <u>07/14/2020 16:21</u>	Date & Time:	Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-152A-071420	20G0158-01	Solid	14-Jul-2020 08:30	14-Jul-2020 16:21
SO-TC-152B-071420	20G0158-02	Solid	14-Jul-2020 08:35	14-Jul-2020 16:21
SO-TC-152C-071420	20G0158-03	Solid	14-Jul-2020 08:40	14-Jul-2020 16:21



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:03

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20G0158

Sample receipt

Samples as listed on the preceding page were received 14-Jul-2020 16:21 under ARI work order 20G0158. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Sample receipt

Samples as listed on the preceding page were received 30-Jun-2020 16:47 under ARI work order 20F0506. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH- EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20G0410. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

Sample specific QC was performed in association with sample 20G0408. The duplicate RPD and matrix spike percent recovery were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): 206-0158 (NA)
Assigned ARI Job No: 206-0158

Project Name: Superlan Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA
Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 28.8

Time 1621
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO 5406

Cooler Accepted by: JSW Date: 07/14/2020 Time: 1621

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

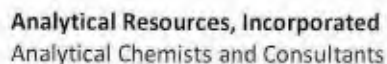
Samples Logged by: JSW Date: 07/14/2020 Time: 1703 Labels checked by: JSW

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

[illegible]

Completed by: SA

Date: 07/14/2022

Time: 1621

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:03

SO-TC-152A-071420
20G0158-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/14/2020 08:30

Instrument: ICP2 Analyst: SKM

Analyzed: 07/20/2020 14:44

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20G0158-01 A 03

Preparation Batch: BIG0408

Sample Size: 25 mL (wet)

Prepared: 07/17/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.193	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.156	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:03

SO-TC-152A-071420
20G0158-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/14/2020 08:30

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 07/17/2020 11:54

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20G0158-01 A 02

Preparation Batch: BIG0410

Sample Size: 20.49 g (wet)

Prepared: 07/17/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.95	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:03

SO-TC-152B-071420
20G0158-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/14/2020 08:35

Instrument: ICP2 Analyst: SKM

Analyzed: 07/20/2020 13:18

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20G0158-02 A 03

Preparation Batch: BIG0408

Sample Size: 25 mL (wet)

Prepared: 07/17/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.403	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.981	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:03

SO-TC-152B-071420
20G0158-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/14/2020 08:35

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 07/17/2020 11:54

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20G0158-02 A 02

Preparation Batch: BIG0410

Sample Size: 20.46 g (wet)

Prepared: 07/17/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.12	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:03

SO-TC-152C-071420
20G0158-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/14/2020 08:40

Instrument: ICP2 Analyst: SKM

Analyzed: 07/20/2020 13:23

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20G0158-03 A 03

Preparation Batch: BIG0408

Sample Size: 25 mL (wet)

Prepared: 07/17/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.572	mg/L	
Lead	7439-92-1	5	0.0065	0.100	1.09	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:03

SO-TC-152C-071420
20G0158-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/14/2020 08:40

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 07/17/2020 11:54

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20G0158-03 A 02

Preparation Batch: BIG0410

Sample Size: 20.68 g (wet)

Prepared: 07/17/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.37	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:03

TCLP Metals and Metallic Compounds - Quality Control

Batch BIG0408 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIG0408-BLK1)						Prepared: 17-Jul-2020 Analyzed: 20-Jul-2020 13:13					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BIG0408-DUP1)						Source: 20G0158-01 Prepared: 17-Jul-2020 Analyzed: 20-Jul-2020 14:39					
Arsenic	0.206	0.0140	0.250	mg/L		0.193			6.38	20	J
Lead	0.153	0.0065	0.100	mg/L		0.156			1.78	20	
Matrix Spike (BIG0408-MS1)						Source: 20G0158-01 Prepared: 17-Jul-2020 Analyzed: 20-Jul-2020 14:48					
Arsenic	4.45	0.0140	0.250	mg/L	4.00	0.193	106	75-125			
Lead	4.09	0.0065	0.100	mg/L	4.00	0.156	98.4	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:03

Wet Chemistry - Quality Control

Batch BIG0410 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIG0410-BS1)					Prepared: 17-Jul-2020 Analyzed: 17-Jul-2020 11:54					
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BIG0410-DUP1)					Source: 20G0158-01 Prepared: 17-Jul-2020 Analyzed: 17-Jul-2020 11:54					
pH	7.93	0.01	0.01	pH Units	7.95			0.25	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:03

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:03

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

21 July 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20G0172

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc.,
cn=Shelly Fishel,
email=shelly.fishel@arilabs.com
Date: 2020.07.21 11:11:17 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2060172	Turn-around Requested: 3 days
------------------------------	-------------------------------

ARI Client Company: PERC Phone: 425-238-2212

Client Contact: **Jeff King**

Client Project Name: Superlon Plastics

Client Project #: SLON	Samplers: King
------------------------	----------------

Date: 7/15/2020

Page: of

No. of Coolers:	2	Cooler Temps:	27.7
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Analysis Requested

Notes/Comments

[illegible]

Comments/Special Instructions

Relinquished by: 
(Signature)

Printed Name: JEFF ICING

Company: **PERC**

Date & Time: 7/15/2020 16:34

Received by: _____
(Signature) _____

Printed Name: Zachary

Company: AAZ

Date & Time: 07/15/2020 1634

Relinquished by:
(Signature)

Printed Name: _____

Company:	
----------	--

Date & Time:

Received by:
(Signature)

Printed Name:

Company:	
----------	--

Date & Time:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)



Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-153A-071520	20G0172-01	Solid	15-Jul-2020 15:35	15-Jul-2020 16:34
SO-TC-153B-071520	20G0172-02	Solid	15-Jul-2020 15:40	15-Jul-2020 16:34
SO-TC-153C-071520	20G0172-03	Solid	15-Jul-2020 15:45	15-Jul-2020 16:34



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:09

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20G0172

Sample receipt

Samples as listed on the preceding page were received 15-Jul-2020 16:34 under ARI work order 20G0172. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Sample receipt

Samples as listed on the preceding page were received 30-Jun-2020 16:47 under ARI work order 20F0506. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH- EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): _____ NA
Assigned ARI Job No: 2060172

Project Name: Spartan Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1634 22.7°C
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO SJ06

Cooler Accepted by: JJW Date: 07/15/2020 Time: 1634

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

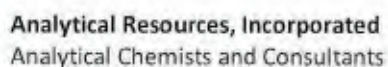
Samples Logged by: JJW Date: 07/15/2020 Time: 1652 Labels checked by: JJW

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: JS Date: 07/15/2002 Time: 1634
00070F Cooler Temperature Compliance Form Va



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:09

SO-TC-153A-071520
20G0172-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/15/2020 15:35

Instrument: ICP2 Analyst: SKM

Analyzed: 07/20/2020 14:21

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20G0172-01 A 03

Preparation Batch: BIG0408

Sample Size: 25 mL (wet)

Prepared: 07/17/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.311	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.269	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:09

SO-TC-153A-071520
20G0172-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/15/2020 15:35

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 07/17/2020 11:54

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20G0172-01 A 02

Preparation Batch: BIG0410

Sample Size: 21.68 g (wet)

Prepared: 07/17/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	8.34	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:09

SO-TC-153B-071520
20G0172-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/15/2020 15:40

Instrument: ICP2 Analyst: SKM

Analyzed: 07/20/2020 14:25

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20G0172-02 A 03

Preparation Batch: BIG0408

Sample Size: 25 mL (wet)

Prepared: 07/17/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.244	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.763	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:09

SO-TC-153B-071520
20G0172-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/15/2020 15:40

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 07/17/2020 11:54

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20G0172-02 A 02

Preparation Batch: BIG0410

Sample Size: 21.04 g (wet)

Prepared: 07/17/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.33	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:09

SO-TC-153C-071520
20G0172-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/15/2020 15:45

Instrument: ICP2 Analyst: SKM

Analyzed: 07/20/2020 14:30

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20G0172-03 A 03

Preparation Batch: BIG0408

Sample Size: 25 mL (wet)

Prepared: 07/17/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.680	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0530	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:09

SO-TC-153C-071520
20G0172-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/15/2020 15:45

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 07/17/2020 11:54

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20G0172-03 A 02

Preparation Batch: BIG0410

Sample Size: 22.93 g (wet)

Prepared: 07/17/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	8.24	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:09

TCLP Metals and Metallic Compounds - Quality Control

Batch BIG0408 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BIG0408-BLK1)					Prepared: 17-Jul-2020 Analyzed: 20-Jul-2020 13:13					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:09

Wet Chemistry - Quality Control

Batch BIG0410 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIG0410-BS1)					Prepared: 17-Jul-2020 Analyzed: 17-Jul-2020 11:54				
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:09

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2020 11:09

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Two data packages for your review.

From David Bosch <DBosch@tpchd.org>
Date Tue 7/28/2020 2:35 PM
To jking perc-nw.com <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Jeff,

The Tacoma-Pierce County Health Department has reviewed the two data sets dated July 27, 2020. As described in your email, two batches will be retreated (SO-TC-154B-072020 and SO-TC-154C-072020).

The other four batches characterized by testing are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III
Environmental Health
(253) 405-8599 c • dbosch@tpchd.org
(253) 798-6498 f • www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: jking perc-nw.com <jking@perc-nw.com>
Sent: Tuesday, July 28, 2020 9:34 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: Two data packages for your review.

David:

Attached are two data packages for your review. We are asking for approval for the soil associated with 4 of the six samples. The soils related to two of the samples (SO-TC-154B-072020 & SO-TC-154C-072020) are being retreated and will be submitted in the future when their leachability is reduced. Each sample represents approximately 22 CY. Sample series SO-TC-154A are in the same stockpile bin so soil related to SO-TC-154B-072020 are in contact with soils related to SO-TC-154A-072020. As

such, 20% of the soils related to SO-TC-154A-072020 (those in contact with the leading edge of SO-TC-154B-072020) will also be retreated.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Asking for approval?
SO-TC-154A-072020	0.436	0.369	6.99	Asking for approval
SO-TC-154B-072020	5.85	0.16	7.53	NOT ASKING FOR APPROVAL - BEING RETREATED
SO-TC-154C-072020	4.19	1.69	7.83	NOT ASKING FOR APPROVAL - BEING RETREATED
SO-TC-155A-072120	1.34	0.33	6.59	Asking for approval
SO-TC-155B-072120	0.296	0.0777	6.73	Asking for approval
SO-TC-155C-072120	0.394	0.285	6.99	Asking for approval

Thank you.

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

27 July 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20G0203

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: <u>2060203</u>		Turn-around Requested: <u>3 days</u>			Date: <u>7/20/2020</u>				Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: <u>PERC</u>		Phone: <u>425-238-2212</u>			Page: <u> </u> of <u> </u>									
Client Contact: <u>Jeff King</u>					No. of Coolers: <u>8</u> Cooler Temps: <u>26.8</u>									
Client Project Name: <u>Superlon Plastics</u>					Analysis Requested							Notes/Comments		
Client Project #: <u>SLON</u>		Samplers: <u>King</u>			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-154A-072020	07/20/20	15:52	Soil	1	✓	✓								
SO-TC-154B-072020	07/20/20	15:56	Soil	1	✓	✓								
SO-TC-154C-072020	07/20/20	16:04	Soil	1	✓	✓								
Comments/Special Instructions		Relinquished by: <u>[Signature]</u>			Received by: <u>[Signature]</u>			Relinquished by: <u>[Signature]</u>			Received by: <u>[Signature]</u>			
		Printed Name: <u>Jeff King</u>			Printed Name: <u>Jacob Walter</u>			Printed Name: <u> </u>			Printed Name: <u> </u>			
		Company: <u>PERC</u>			Company: <u>ARI</u>			Company: <u> </u>			Company: <u> </u>			
		Date & Time: <u>7/20/20 4:49</u>			Date & Time: <u>07/20/2020 1649</u>			Date & Time: <u> </u>			Date & Time: <u> </u>			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-154A-072020	20G0203-01	Solid	20-Jul-2020 15:52	20-Jul-2020 16:49
SO-TC-154B-072020	20G0203-02	Solid	20-Jul-2020 15:56	20-Jul-2020 16:49
SO-TC-154C-072020	20G0203-03	Solid	20-Jul-2020 16:04	20-Jul-2020 16:49



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:07

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20G0203

Sample receipt

Samples as listed on the preceding page were received 20-Jul-2020 16:49 under ARI work order 20G0203. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20G0203-01 in batch BIG0503. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

Sample specific QC was performed in association with sample 20G0203-01 in batch BIG0512. The duplicate RPD and matrix spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERL

Project Name: Superior Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 2060203

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1649 26.8

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: SS Date: 07/20/2000 Time: 1649

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time _____ Equipment: _____ Split by: _____

Samples Logged by: SS Date 07/20/2000 Time: 1703 Labels checked by: SS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By _____ Date: _____



Cooler Temperature Compliance Form

Completed by: Tan Date: 07/06/20 Time: 1649



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:07

SO-TC-154A-072020
20G0203-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/20/2020 15:52

Instrument: ICP2 Analyst: SKM

Analyzed: 07/24/2020 13:34

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20G0203-01 A 02

Preparation Batch: BIG0512

Sample Size: 25 mL (wet)

Prepared: 07/23/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.436	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.369	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:07

SO-TC-154A-072020
20G0203-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/20/2020 15:52

Instrument: Accumet AB150 Analyst: BF

Analyzed: 07/22/2020 16:21

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20G0203-01 A

Preparation Batch: BIG0503

Sample Size: 20.36 g (wet)

Prepared: 07/22/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.99	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:07

SO-TC-154B-072020
20G0203-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/20/2020 15:56

Instrument: ICP2 Analyst: SKM

Analyzed: 07/24/2020 13:02

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20G0203-02 A 02

Preparation Batch: BIG0512

Sample Size: 25 mL (wet)

Prepared: 07/23/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	5.85	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.160	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:07

SO-TC-154B-072020
20G0203-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/20/2020 15:56

Instrument: Accumet AB150 Analyst: BF

Analyzed: 07/22/2020 16:21

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20G0203-02 A

Preparation Batch: BIG0503

Sample Size: 20.4 g (wet)

Prepared: 07/22/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.53	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:07

SO-TC-154C-072020
20G0203-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/20/2020 16:04

Instrument: ICP2 Analyst: SKM

Analyzed: 07/24/2020 13:07

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20G0203-03 A 02

Preparation Batch: BIG0512

Sample Size: 25 mL (wet)

Prepared: 07/23/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	4.19	mg/L	
Lead	7439-92-1	5	0.0065	0.100	1.69	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:07

SO-TC-154C-072020
20G0203-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/20/2020 16:04

Instrument: Accumet AB150 Analyst: BF

Analyzed: 07/22/2020 16:21

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20G0203-03 A

Preparation Batch: BIG0503

Sample Size: 20.31 g (wet)

Prepared: 07/22/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.83	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:07

TCLP Metals and Metallic Compounds - Quality Control

Batch BIG0512 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIG0512-BLK1)						Prepared: 23-Jul-2020 Analyzed: 24-Jul-2020 12:58					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BIG0512-DUP1)						Source: 20G0203-01 Prepared: 23-Jul-2020 Analyzed: 24-Jul-2020 13:29					
Arsenic	0.416	0.0140	0.250	mg/L		0.436			4.75	20	
Lead	0.369	0.0065	0.100	mg/L		0.369			0.10	20	
Matrix Spike (BIG0512-MS1)						Source: 20G0203-01 Prepared: 23-Jul-2020 Analyzed: 24-Jul-2020 13:38					
Arsenic	4.59	0.0140	0.250	mg/L	4.00	0.436	104	75-125			
Lead	4.34	0.0065	0.100	mg/L	4.00	0.369	99.3	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:07

Wet Chemistry - Quality Control

Batch BIG0503 - EPA 9045D

Instrument: Accumet AB150 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIG0503-BS1)										
					Prepared: 22-Jul-2020		Analyzed: 22-Jul-2020 16:21			
pH	6.97	0.01	0.01	pH Units	7.00		99.6	99.2-100.8		
Duplicate (BIG0503-DUP1)										
		Source: 20G0203-01			Prepared: 22-Jul-2020		Analyzed: 22-Jul-2020 16:21			
pH	7.23	0.01	0.01	pH Units		6.99		3.38	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:07

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:07

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

27 July 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20G0214

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: **2060214** Turn-around Requested: **3 days**

ART Client Company: **PERC** Phone: **425-346-0921**

Client Contact: **Kenny King**

Client Project Name: **Superlon Plastics**

Client Project #: **SLON** Samplers: **King**

Date: **7/21/2020**

Page: **1** of **1**

No. of Coolers: **1** Cooler Temps: **27.9**



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

					Analysis Requested							Notes/Comments				
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C										
SO-TC-155A-072120	07/21/20	15:35	Soil	1	✓	✓										
SO-TC-155B-072120	07/21/20	15:40	Soil	1	✓	✓										
SO-TC-155C-072120	07/21/20	15:49	Soil	1	✓	✓										
Comments/Special Instructions	Relinquished by: (Signature) <i>[Signature]</i>				Received by: (Signature) <i>[Signature]</i>				Relinquished by: (Signature)				Received by: (Signature)			
	Printed Name: JEFF KING				Printed Name: Shelly L Fisher				Printed Name:				Printed Name:			
	Company: PERC				Company: ARI				Company:				Company:			
	Date & Time: 7/21/2020 16:31				Date & Time: 7/21/2020 1631				Date & Time:				Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-155A-072120	20G0214-01	Solid	21-Jul-2020 15:35	21-Jul-2020 16:31
SO-TC-155B-072120	20G0214-02	Solid	21-Jul-2020 15:40	21-Jul-2020 16:31
SO-TC-155C-072120	20G0214-03	Solid	21-Jul-2020 15:49	21-Jul-2020 16:31



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:27

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20G0214

Sample receipt

Samples as listed on the preceding page were received 21-Jul-2020 16:31 under ARI work order 20G0214. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERE

COC No(s): _____ NA

Assigned ARI Job No: 2060214

Project Name: Superior Plastics

Delivered by: Fed-Ex UPS Courier Hand Delivered Other:

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1631

27.9

If cooler temperature is out of compliance fillout form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: [Signature] Date: 7/21/2020 Time: 1631

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? _____ Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other none

Was sufficient ice used (if appropriate)? _____

NA YES NO

How were bottles sealed in plastic bags? _____

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) _____

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI: _____

NA

Were the sample(s) split by ARI? NA YES _____ Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: [Signature] Date: _____ Time: _____ Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by:
00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:27

SO-TC-155A-072120
20G0214-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/21/2020 15:35

Instrument: ICP2 Analyst: SKM

Analyzed: 07/24/2020 13:16

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20G0214-01 A 02

Preparation Batch: BIG0512

Sample Size: 25 mL (wet)

Prepared: 07/23/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	1.34	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.330	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:27

SO-TC-155A-072120
20G0214-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/21/2020 15:35

Instrument: Accumet AB150 Analyst: BF

Analyzed: 07/22/2020 16:21

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20G0214-01 A

Preparation Batch: BIG0503

Sample Size: 20.14 g (wet)

Prepared: 07/22/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.59	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:27

SO-TC-155B-072120
20G0214-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/21/2020 15:40

Instrument: ICP2 Analyst: SKM

Analyzed: 07/24/2020 13:20

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20G0214-02 A 02

Preparation Batch: BIG0512

Sample Size: 25 mL (wet)

Prepared: 07/23/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.296	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0777	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:27

SO-TC-155B-072120
20G0214-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/21/2020 15:40

Instrument: Accumet AB150 Analyst: BF

Analyzed: 07/22/2020 16:21

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20G0214-02 A

Preparation Batch: BIG0503

Sample Size: 20.33 g (wet)

Prepared: 07/22/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.73	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:27

SO-TC-155C-072120
20G0214-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 07/21/2020 15:49

Instrument: ICP2 Analyst: SKM

Analyzed: 07/24/2020 13:25

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20G0214-03 A 02

Preparation Batch: BIG0512

Sample Size: 25 mL (wet)

Prepared: 07/23/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.394	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.285	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:27

SO-TC-155C-072120
20G0214-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/21/2020 15:49

Instrument: Accumet AB150 Analyst: BF

Analyzed: 07/22/2020 16:21

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20G0214-03 A

Preparation Batch: BIG0503

Sample Size: 20.43 g (wet)

Prepared: 07/22/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.99	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:27

TCLP Metals and Metallic Compounds - Quality Control

Batch BIG0512 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BIG0512-BLK1)					Prepared: 23-Jul-2020 Analyzed: 24-Jul-2020 12:58				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:27

Wet Chemistry - Quality Control

Batch BIG0503 - EPA 9045D

Instrument: Accumet AB150 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIG0503-BS1)									
Prepared: 22-Jul-2020 Analyzed: 22-Jul-2020 16:21									
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Jul-2020 12:27

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
27-Jul-2020 12:27

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Three data packages for your review and approval

From David Bosch <DBosch@tpchd.org>

Date Mon 8/17/2020 1:47 PM

To jking perc-nw.com <jking@perc-nw.com>

Cc kking perc-nw.com <kking@perc-nw.com>; grimstedb@uspioneer.com <grimstedb@uspioneer.com>

Jeff,

The Tacoma-Pierce County Health Department has reviewed the three laboratory reports dated August 12 and August 17 (2). Except for batch SO-TC-160C-081020 that will be reprocessed, all other soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Did you get a response from our agency while I was on vacation concerning your August 6th email requesting approval for disposal of three other data sets? I didn't see a response in our electronic folder. Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 405-8599 c • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: jking perc-nw.com <jking@perc-nw.com>

Sent: Monday, August 17, 2020 12:57 PM

To: David Bosch <DBosch@tpchd.org>

Cc: kking perc-nw.com <kking@perc-nw.com>; grimstedb@uspioneer.com

Subject: Three data packages for your review and approval

Attached are three data packages for your review and approval. WE ARE NOT ASKING FOR PERMISSION TO DISPOSE OF THE SOILS RELATED TO SAMPLE SO-TC-160C-081020. This soil, along with ¼ of SO-TC-160B-081020, have been returned to treatment and are being reprocessed. I included the data on the table below for completeness. Each sample represents approximately 22 CY of soil.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Asking for approval?
SO-TC-159A-080420	2.58	0.238	8	Asking for approval
SO-TC-159B-080420	0.559	0.761	9.23	Asking for approval
SO-TC-159C-080420	0.26	1.08	8.09	Asking for approval
SO-TC-160A-081020	0.931	0.227	8.27	Asking for approval
SO-TC-160B-081020	0.403	0.93	8.28	Asking for approval
SO-TC-160C-081020	0.564	35.6	8.91	NOT ASKING FOR APPROVAL - BEING RETREATED
SO-TC-161A-081120	0.238	0.397	8.85	Asking for approval
SO-TC-161B-081120	0.374	0.618	8.28	Asking for approval
SO-TC-161C-081120	0.521	0.499	8.17	Asking for approval

Thank you
Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

12 August 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20H0027

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20H0027 Turn-around Requested: 3 days

ARI Client Company: PERC Phone: 425-346-0921

Client Contact: Kenny King

Client Project Name: Superlon Plastics

Client Project #: SLON Samplers: King

Date: 8/04/2020
Page: of
No. of Coolers: 1 Cooler Temps: 29.0



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

					Analysis Requested								Notes/Comments		
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C									
SO-TC-159A-080420	08/04/20	14:00	Soil	1	✓	✓									
SO-TC-159B-080420	08/04/20	14:10	Soil	1	✓	✓									
SO-TC-159C-080420	08/04/20	14:20	Soil	1	✓	✓									
Comments/Special Instructions					Relinquished by: (Signature) <u>Kenny King</u>			Received by: (Signature) <u>Kenny Dang</u>			Relinquished by: (Signature)			Received by: (Signature)	
					Printed Name: <u>Kenny King</u>			Printed Name: <u>Kenny Dang</u>			Printed Name:			Printed Name:	
					Company: <u>PERC</u>			Company: <u>ARI</u>			Company:			Company:	
					Date & Time: <u>8/4/2020 16:45</u>			Date & Time: <u>8/4/2020 1645</u>			Date & Time:			Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Aug-2020 13:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-159A-080420	20H0027-01	Solid	04-Aug-2020 14:00	04-Aug-2020 16:45
SO-TC-159B-080420	20H0027-02	Solid	04-Aug-2020 14:10	04-Aug-2020 16:45
SO-TC-159C-080420	20H0027-03	Solid	04-Aug-2020 14:20	04-Aug-2020 16:45



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Aug-2020 13:06

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20H0027

Sample receipt

Samples as listed on the preceding page were received 04-Aug-2020 16:45 under ARI work order 20H0027. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon plastics

COC No(s): NA

Delivered by Fed-Ex UPS Courier Hand Delivered Other

Assigned ARI Job No: 20140027

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1645 29.0

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# DOO 5306

Cooler Accepted by: KD Date: 8/14/20 Time: 1645

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by KD Date: 8/14/20 Time: 1700 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Aug-2020 13:06

SO-TC-159A-080420
20H0027-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/04/2020 14:00

Instrument: ICP2 Analyst: TCH

Analyzed: 08/11/2020 20:14

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0027-01 A 02

Preparation Batch: BIH0089

Sample Size: 25 mL (wet)

Prepared: 08/06/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	2.58	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.238	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Aug-2020 13:06

SO-TC-159A-080420
20H0027-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/04/2020 14:00

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 08/09/2020 11:14

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0027-01 A

Preparation Batch: BIH0150

Sample Size: 20.02 g (wet)

Prepared: 08/09/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.00	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Aug-2020 13:06

SO-TC-159B-080420
20H0027-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/04/2020 14:10

Instrument: ICP2 Analyst: TCH

Analyzed: 08/11/2020 20:19

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0027-02 A 02

Preparation Batch: BIH0089

Sample Size: 25 mL (wet)

Prepared: 08/06/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.559	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.761	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Aug-2020 13:06

SO-TC-159B-080420
20H0027-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/04/2020 14:10

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 08/09/2020 11:14

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0027-02 A

Preparation Batch: BIH0150

Sample Size: 20.18 g (wet)

Prepared: 08/09/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.23	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Aug-2020 13:06

SO-TC-159C-080420
20H0027-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/04/2020 14:20

Instrument: ICP2 Analyst: TCH

Analyzed: 08/11/2020 20:23

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0027-03 A 02

Preparation Batch: BIH0089

Sample Size: 25 mL (wet)

Prepared: 08/06/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.260	mg/L	
Lead	7439-92-1	5	0.0065	0.100	1.08	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Aug-2020 13:06

SO-TC-159C-080420
20H0027-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/04/2020 14:20

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 08/09/2020 11:14

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0027-03 A

Preparation Batch: BIH0150

Sample Size: 20.04 g (wet)

Prepared: 08/09/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.09	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Aug-2020 13:06

TCLP Metals and Metallic Compounds - Quality Control

Batch BIH0089 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BIH0089-BLK1)					Prepared: 06-Aug-2020 Analyzed: 11-Aug-2020 20:10					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	0.0088	0.0065	0.100	mg/L						J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Aug-2020 13:06

Wet Chemistry - Quality Control

Batch BIH0150 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIH0150-BS1)										
Prepared: 09-Aug-2020						Analyzed: 09-Aug-2020 11:14				
pH	6.99	0.01	0.01	pH Units	7.00	99.9	99.2-100.8			
Duplicate (BIH0150-DUP1)										
Source: 20H0027-01				Prepared: 09-Aug-2020 Analyzed: 09-Aug-2020 11:14						
pH	8.06	0.01	0.01	pH Units	8.00			0.75	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Aug-2020 13:06

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Aug-2020 13:06

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

17 August 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20H0097

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20H0097		Turn-around Requested: 3 days		Date: 8/10/2020		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)																																																																																																																																																											
ARI Client Company: PERC		Phone: 425-346-0921		Page: of																																																																																																																																																													
Client Contact: Kenny King				No. of Coolers: 0 Cooler Temps: 27.1																																																																																																																																																													
Client Project Name: Superlon Plastics				<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="8">Analysis Requested</th> <th colspan="2">Notes/Comments</th> </tr> <tr> <th>TCLP 1311 As/Pb Only</th> <th>pH 9045C</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>								Analysis Requested								Notes/Comments		TCLP 1311 As/Pb Only	pH 9045C									✓	✓									✓	✓									✓	✓																																																																																																												
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Client Project #: SLON		Samplers: King																																																																																																																																																															
Sample ID	Date	Time	Matrix	No. Containers																																																																																																																																																													
SO-TC-160A-081020	08/10/00	13:35	Soil	1	✓	✓																																																																																																																																																											
SO-TC-160B-081020	08/10/20	13:40	Soil	1	✓	✓																																																																																																																																																											
SO-TC-160C-081020	08/10/20	13:45	Soil	1	✓	✓																																																																																																																																																											
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walter</i>		Relinquished by: (Signature)		Received by: (Signature)																																																																																																																																																									
		Printed Name: Kenny King		Printed Name: Jacob Walter		Printed Name:		Printed Name:																																																																																																																																																									
		Company: PERC		Company: ARI		Company:		Company:																																																																																																																																																									
		Date & Time: 8/10/20 16:41		Date & Time: 08/10/20 16:41		Date & Time:		Date & Time:																																																																																																																																																									

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-160A-081020	20H0097-01	Solid	10-Aug-2020 13:35	10-Aug-2020 16:41
SO-TC-160B-081020	20H0097-02	Solid	10-Aug-2020 13:40	10-Aug-2020 16:41
SO-TC-160C-081020	20H0097-03	Solid	10-Aug-2020 13:45	10-Aug-2020 16:41



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:04

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20H0097

Sample receipt

Samples as listed on the preceding page were received 10-Aug-2020 16:41 under ARI work order 20H0097. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlan Plastics

COC No(s): 20H0097 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 20H0097

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1641 271

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO S206

Cooler Accepted by: JS Date: 08/11/2020 Time: 1641

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Were the sample(s) spill by ARI? NA YES Date/Time: 08/11/2020 Equipment: JS Split by: JS

Samples Logged by: JS Date: 08/11/2020 Time: 0805 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 20H0097

Cooler#: _____ Temperature(°C): 27.1

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: JS

Date: 08/10/2020

Time: 1641

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:04

SO-TC-160A-081020
20H0097-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/10/2020 13:35

Instrument: ICP2 Analyst: TCH

Analyzed: 08/14/2020 10:27

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0097-01 A 02

Preparation Batch: BIH0239

Sample Size: 25 mL (wet)

Prepared: 08/13/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.931	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.227	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:04

SO-TC-160A-081020
20H0097-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/10/2020 13:35

Instrument: Accumet AB150 Analyst: JM

Analyzed: 08/14/2020 12:36

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0097-01 A 03

Preparation Batch: BIH0272

Sample Size: 20.3 g (wet)

Prepared: 08/14/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.27	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:04

SO-TC-160B-081020
20H0097-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/10/2020 13:40

Instrument: ICP2 Analyst: TCH

Analyzed: 08/14/2020 10:32

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0097-02 A 02

Preparation Batch: BIH0239

Sample Size: 25 mL (wet)

Prepared: 08/13/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.403	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.930	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:04

SO-TC-160B-081020
20H0097-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/10/2020 13:40

Instrument: Accumet AB150 Analyst: JM

Analyzed: 08/14/2020 12:36

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0097-02 A 03

Preparation Batch: BIH0272

Sample Size: 20.12 g (wet)

Prepared: 08/14/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.28	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:04

SO-TC-160C-081020
20H0097-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/10/2020 13:45

Instrument: ICP2 Analyst: TCH

Analyzed: 08/14/2020 10:36

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0097-03 A 02

Preparation Batch: BIH0239

Sample Size: 25 mL (wet)

Prepared: 08/13/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.564	mg/L	
Lead	7439-92-1	5	0.0065	0.100	35.6	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:04

SO-TC-160C-081020
20H0097-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/10/2020 13:45

Instrument: Accumet AB150 Analyst: JM

Analyzed: 08/14/2020 12:36

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0097-03 A 03

Preparation Batch: BIH0272

Sample Size: 20.27 g (wet)

Prepared: 08/14/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.91	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:04

TCLP Metals and Metallic Compounds - Quality Control

Batch BIH0239 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BIH0239-BLK1)					Prepared: 13-Aug-2020 Analyzed: 14-Aug-2020 10:23				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:04

Wet Chemistry - Quality Control

Batch BIH0272 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: JM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIH0272-BS1)					Prepared: 14-Aug-2020 Analyzed: 14-Aug-2020 12:36				
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:04

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:04

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

17 August 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20H0119

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20H0119		Turn-around Requested: 3 days		Date: 8/11/2020		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)		
ARI Client Company: PERC		Phone: 425-346-0921		Page: of				
Client Contact: Kenny King		No. of Coolers: 2		Cooler Temps: 27.6				
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	pH 9045C			
Sample ID	Date	Time	Matrix	No. Containers				
SO-TC-161A-081120	08/11/20	14:15	Soil	1	✓	✓		
SO-TC-161B-081120	08/11/20	14:20	Soil	1	✓	✓		
SO-TC-161C-081120	08/11/20	14:25	Soil	1	✓	✓		
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walke</i>		
				Printed Name: Kenny King		Printed Name: Jacob Walke		
				Company: PERC		Company: ARI		
				Date & Time: 8/11/2020 1646		Date & Time: 08/11/2020 1646		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-161A-081120	20H0119-01	Solid	11-Aug-2020 14:15	11-Aug-2020 16:46
SO-TC-161B-081120	20H0119-02	Solid	11-Aug-2020 14:20	11-Aug-2020 16:46
SO-TC-161C-081120	20H0119-03	Solid	11-Aug-2020 14:25	11-Aug-2020 16:46



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:12

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20H0119

Sample receipt

Samples as listed on the preceding page were received 11-Aug-2020 16:46 under ARI work order 20H0119. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

Sample specific QC was performed in association with sample 20H0119-03. The duplicate RPD and matrix spike percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 2040119

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 1646 27.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: J.S. Date: 08/11/2020 Time: 1646

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: 1648 Split by: _____

Samples Logged by: J.S. Date: 08/11/2020 Time: 1646 Labels checked by: J.S.

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:12

SO-TC-161A-081120
20H0119-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/11/2020 14:15

Instrument: ICP2 Analyst: TCH

Analyzed: 08/14/2020 11:30

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0119-01 A 02

Preparation Batch: BIH0239

Sample Size: 25 mL (wet)

Prepared: 08/13/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.238	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.397	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:12

SO-TC-161A-081120
20H0119-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/11/2020 14:15

Instrument: Accumet AB150 Analyst: JM

Analyzed: 08/14/2020 12:36

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0119-01 A 03

Preparation Batch: BIH0272

Sample Size: 20.81 g (wet)

Prepared: 08/14/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.85	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:12

SO-TC-161B-081120
20H0119-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/11/2020 14:20

Instrument: ICP2 Analyst: TCH

Analyzed: 08/14/2020 11:34

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0119-02 A 02

Preparation Batch: BIH0239

Sample Size: 25 mL (wet)

Prepared: 08/13/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.374	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.618	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:12

SO-TC-161B-081120
20H0119-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/11/2020 14:20

Instrument: Accumet AB150 Analyst: JM

Analyzed: 08/14/2020 12:36

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0119-02 A 03

Preparation Batch: BIH0272

Sample Size: 20.22 g (wet)

Prepared: 08/14/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.28	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:12

SO-TC-161C-081120
20H0119-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/11/2020 14:25

Instrument: ICP2 Analyst: TCH

Analyzed: 08/14/2020 10:59

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0119-03 A 02

Preparation Batch: BIH0239

Sample Size: 25 mL (wet)

Prepared: 08/13/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.521	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.499	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:12

SO-TC-161C-081120
20H0119-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/11/2020 14:25

Instrument: Accumet AB150 Analyst: JM

Analyzed: 08/14/2020 12:36

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0119-03 A 03

Preparation Batch: BIH0272

Sample Size: 20.04 g (wet)

Prepared: 08/14/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.17	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:12

TCLP Metals and Metallic Compounds - Quality Control

Batch BIH0239 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIH0239-BLK1)						Prepared: 13-Aug-2020 Analyzed: 14-Aug-2020 10:23					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BIH0239-DUP1)						Source: 20H0119-03 Prepared: 13-Aug-2020 Analyzed: 14-Aug-2020 10:54					
Arsenic	0.536	0.0140	0.250	mg/L		0.521			2.75	20	
Lead	0.489	0.0065	0.100	mg/L		0.499			1.90	20	
Matrix Spike (BIH0239-MS1)						Source: 20H0119-03 Prepared: 13-Aug-2020 Analyzed: 14-Aug-2020 11:04					
Arsenic	4.84	0.0140	0.250	mg/L	4.00	0.521	108	75-125			
Lead	4.59	0.0065	0.100	mg/L	4.00	0.499	102	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:12

Wet Chemistry - Quality Control

Batch BIH0272 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: JM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIH0272-BS1)					Prepared: 14-Aug-2020 Analyzed: 14-Aug-2020 12:36				
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:12

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2020 11:12

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Three data packages for your review and approval

From David Bosch <DBosch@tpchd.org>
Date Tue 8/25/2020 1:39 PM
To kking perc-nw.com <kking@perc-nw.com>
Cc jking perc-nw.com <jking@perc-nw.com>

Good afternoon Kenny,

The Tacoma-Pierce County Health Department has reviewed the three laboratory reports dated August 21 (2) and August 25, 2020. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III
Environmental Health
(253) 405-8599 c • dbosch@tpchd.org
(253) 798-6498 f • www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: kking perc-nw.com <kking@perc-nw.com>
Sent: Tuesday, August 25, 2020 12:16 PM
To: David Bosch <DBosch@tpchd.org>
Cc: jking perc-nw.com <jking@perc-nw.com>
Subject: Three data packages for your review and approval

Hello David,

My name is Kenny King and I am filling in for Jeff King this week (CCed on this email) as he is on vacation. Attached are three data packages for your review and approval. Each sample represents approximately 23 CY of soil. The following table lists the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Asking for approval?
SO-TC-162A-081720	0.208	0.21	8.74	Asking for approval
SO-TC-162B-081720	0.14	0.434	8.97	Asking for approval
SO-TC-162C-081720	0.189	2.26	8.68	Asking for approval
SO-TC-163A-081720	0.325	0.303	8.82	Asking for approval
SO-TC-163B-081720	0.355	0.482	8.69	Asking for approval
SO-TC-163C-081720	0.465	0.644	8.9	Asking for approval
SO-TC-164A-081820	0.297	0.312	8.52	Asking for approval
SO-TC-164B-081820	0.229	0.698	8.51	Asking for approval
SO-TC-164C-081820	0.212	0.195	7.95	Asking for approval

Please do not hesitate to ask should you have any questions.

Thanks,
Kenny



Analytical Resources, Incorporated
Analytical Chemists and Consultants

21 August 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20H0171

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed
by Shelly Fishel
Date: 2020.08.21
16:24:05 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20H0171	Turn-around Requested: 3 days	Date: 8/17/2020
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 1 Cooler Temps: 28.1



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments			
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C										
Sample ID	Date	Time	Matrix	No. Containers												
SO-TC-162A-081720	08/17/20	08:20	Soil	1	✓	✓										
SO-TC-162B-081720	08/17/20	08:25	Soil	1	✓	✓										
SO-TC-162C-081720	08/17/20	08:30	Soil	1	✓	✓										
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>				Received by: (Signature) <i>Jacob Walte</i>				Relinquished by: (Signature)			
					Printed Name: Kenny King				Printed Name: Jacob Walte				Printed Name:			
					Company: PERC				Company: ARI				Company:			
					Date & Time: 8/17/2020 16:42				Date & Time: 08/17/2020 1642				Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-162A-081720	20H0171-01	Solid	17-Aug-2020 08:20	17-Aug-2020 16:42
SO-TC-162B-081720	20H0171-02	Solid	17-Aug-2020 08:25	17-Aug-2020 16:42
SO-TC-162C-081720	20H0171-03	Solid	17-Aug-2020 08:30	17-Aug-2020 16:42



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:19

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20H0171

Sample receipt

Samples as listed on the preceding page were received 17-Aug-2020 16:42 under ARI work order 20H0171. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20H0171-01 in batch BIH0406. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlan Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 20H0171

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1642 28.1
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO 5206

Cooler Accepted by: JB Date: 08/12/20 Time: 1642

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Raggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI NA
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: KD Date: 8/18/20 Time: 0827 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: _____

Cooler#: _____ Temperature(°C): 28.1

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
about 6:00*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: JA~ Date: 08/12/2020 Time: 1642

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:19

SO-TC-162A-081720
20H0171-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/17/2020 08:20

Instrument: ICP2 Analyst: SKM

Analyzed: 08/20/2020 13:40

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0171-01 A 02

Preparation Batch: BIH0355

Sample Size: 25 mL (wet)

Prepared: 08/19/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.208	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.210	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:19

SO-TC-162A-081720
20H0171-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/17/2020 08:20

Instrument: Accumet AB150 Analyst: JM

Analyzed: 08/21/2020 12:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0171-01 A

Preparation Batch: BIH0406

Sample Size: 20.51 g (wet)

Prepared: 08/21/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.74	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:19

SO-TC-162B-081720
20H0171-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/17/2020 08:25

Instrument: ICP2 Analyst: SKM

Analyzed: 08/20/2020 13:44

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0171-02 A 02

Preparation Batch: BIH0355

Sample Size: 25 mL (wet)

Prepared: 08/19/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.140	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.434	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:19

SO-TC-162B-081720
20H0171-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/17/2020 08:25

Instrument: Accumet AB150 Analyst: JM

Analyzed: 08/21/2020 12:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0171-02 A

Preparation Batch: BIH0406

Sample Size: 20.13 g (wet)

Prepared: 08/21/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.97	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:19

SO-TC-162C-081720
20H0171-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/17/2020 08:30

Instrument: ICP2 Analyst: SKM

Analyzed: 08/20/2020 13:49

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0171-03 A 02

Preparation Batch: BIH0355

Sample Size: 25 mL (wet)

Prepared: 08/19/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.189	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	2.26	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:19

SO-TC-162C-081720
20H0171-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/17/2020 08:30

Instrument: Accumet AB150 Analyst: JM

Analyzed: 08/21/2020 12:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0171-03 A

Preparation Batch: BIH0406

Sample Size: 20.57 g (wet)

Prepared: 08/21/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.68	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:19

TCLP Metals and Metallic Compounds - Quality Control

Batch BIH0355 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BIH0355-BLK1)					Prepared: 19-Aug-2020 Analyzed: 20-Aug-2020 13:30				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	0.0124	0.0065	0.100	mg/L					J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:19

Wet Chemistry - Quality Control

Batch BIH0406 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: JM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BIH0406-BS1)						Prepared: 21-Aug-2020 Analyzed: 21-Aug-2020 12:02					
pH	6.98	0.01	0.01	pH Units	7.00		99.7	99.2-100.8			
Duplicate (BIH0406-DUP1)						Source: 20H0171-01 Prepared: 21-Aug-2020 Analyzed: 21-Aug-2020 12:02					
pH	8.72	0.01	0.01	pH Units		8.74			0.23	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:19

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:19

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

21 August 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20H0172

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2020.08.21
16:15:10 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 20A0172		Turn-around Requested: 3 days		Date: 8/17/2020		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC		Phone: 425-346-0921		Page: of							
Client Contact: Kenny King		No. of Coolers: 1		Cooler Temps: 28.1							
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments			
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		pH 9045C					
Sample ID	Date	Time	Matrix	No. Containers							
SO-TC-163A-081720	08/17/20	14:35	Soil	1	✓	✓					
SO-TC-163B-081720	08/17/20	14:40	Soil	1	✓	✓					
SO-TC-163C-081720	08/17/20	14:45	Soil	1	✓	✓					
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: <i>Jacob Walte</i>		Relinquished by: (Signature)		Received by: (Signature)	
				Printed Name: Kenny King		Printed Name: Jacob Walte		Printed Name:		Printed Name:	
				Company: PERC		Company: ARI		Company:		Company:	
				Date & Time: 8/17/2020 16:42		Date & Time: 08/17/2020 1642		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-163A-081720	20H0172-01	Solid	17-Aug-2020 14:35	18-Aug-2020 08:52
SO-TC-163B-081720	20H0172-02	Solid	17-Aug-2020 14:40	18-Aug-2020 08:52
SO-TC-163C-081720	20H0172-03	Solid	17-Aug-2020 14:45	18-Aug-2020 08:52



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:12

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20H0172

Sample receipt

Samples as listed on the preceding page were received 18-Aug-2020 08:52 under ARI work order 20H0172. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The LCS percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

COC No(s): _____ (NA)

Assigned ARI Job No: 20H0172

Project Name: Superlan Plastics

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES (NO)

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1642

28.1

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JB

Date: 08/17/2020

Time: 1642

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES (NO)

What kind of packing material was used? _____

Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES (NO)

How were bottles sealed in plastic bags? _____

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) _____

(NA) YES NO

Were all VOC vials free of air bubbles? _____

(NA) YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI _____

(NA)

Were the sample(s) split by ARI? _____

(NA)

YES

Date/Time: _____

Equipment: _____

Split by: _____

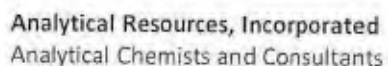
Samples Logged by: KD Date: 8/18/20 Time: 0856 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: Ja~ Date: 08/17/2020 Time: 1642

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:12

SO-TC-163A-081720
20H0172-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/17/2020 14:35

Instrument: ICP2 Analyst: SKM

Analyzed: 08/20/2020 13:53

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0172-01 A 02

Preparation Batch: BIH0355

Sample Size: 25 mL (wet)

Prepared: 08/19/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.325	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.303	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:12

SO-TC-163A-081720
20H0172-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/17/2020 14:35

Instrument: Accumet AB150 Analyst: JM

Analyzed: 08/21/2020 12:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0172-01 A

Preparation Batch: BIH0406

Sample Size: 20.53 g (wet)

Prepared: 08/21/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.82	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:12

SO-TC-163B-081720
20H0172-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/17/2020 14:40

Instrument: ICP2 Analyst: SKM

Analyzed: 08/20/2020 14:53

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0172-02 A 02

Preparation Batch: BIH0355

Sample Size: 25 mL (wet)

Prepared: 08/19/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.355	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.482	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:12

SO-TC-163B-081720
20H0172-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/17/2020 14:40

Instrument: Accumet AB150 Analyst: JM

Analyzed: 08/21/2020 12:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0172-02 A

Preparation Batch: BIH0406

Sample Size: 20.42 g (wet)

Prepared: 08/21/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.69	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:12

SO-TC-163C-081720
20H0172-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/17/2020 14:45

Instrument: ICP2 Analyst: SKM

Analyzed: 08/20/2020 14:57

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0172-03 A 02

Preparation Batch: BIH0355

Sample Size: 25 mL (wet)

Prepared: 08/19/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.465	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.644	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:12

SO-TC-163C-081720
20H0172-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/17/2020 14:45

Instrument: Accumet AB150 Analyst: JM

Analyzed: 08/21/2020 12:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0172-03 A

Preparation Batch: BIH0406

Sample Size: 20.42 g (wet)

Prepared: 08/21/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.90	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:12

TCLP Metals and Metallic Compounds - Quality Control

Batch BIH0355 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BIH0355-BLK1)					Prepared: 19-Aug-2020 Analyzed: 20-Aug-2020 13:30				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	0.0124	0.0065	0.100	mg/L					J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:12

Wet Chemistry - Quality Control

Batch BIH0406 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: JM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIH0406-BS1)					Prepared: 21-Aug-2020 Analyzed: 21-Aug-2020 12:02				
pH	6.98	0.01	0.01	pH Units	7.00	99.7	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:12

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Aug-2020 16:12

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

25 August 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20H0189

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2020.08.25
11:33:25 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20H0189	Turn-around Requested: 3 days	Date: 8/18/2020
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 2 Cooler Temps: 28.9



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-164A-081820	08/18/20	11:35	Soil	1	✓	✓							
SO-TC-164B-081820	08/18/20	11:40	Soil	1	✓	✓							
SO-TC-164C-081820	08/18/20	11:45	Soil	1	✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walter</i>						
					Printed Name: <i>Kenny King</i>		Printed Name: <i>Jacob Walter</i>						
					Company: <i>PERC</i>		Company: <i>ARI</i>						
					Date & Time: <i>8/18/2020 16:36</i>		Date & Time: <i>8/18/2020 16:36</i>						

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Aug-2020 11:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-164A-081820	20H0189-01	Solid	18-Aug-2020 11:35	18-Aug-2020 16:36
SO-TC-164B-081820	20H0189-02	Solid	18-Aug-2020 11:40	18-Aug-2020 16:36
SO-TC-164C-081820	20H0189-03	Solid	18-Aug-2020 11:45	18-Aug-2020 16:36



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Aug-2020 11:27

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20H0189

Sample receipt

Samples as listed on the preceding page were received 18-Aug-2020 16:36 under ARI work order 20H0189. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 20H0189-01 in batch BIH0400. The duplicate (DUP) relative percent difference (RPD) and matrix spike (MS) percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: PERC
COC No(s): _____ (NA)
Assigned ARI Job No: 2040189

Project Name: Superior Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1636 28.9
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO 5206
Cooler Accepted by: JS Date: 08/18/2020 Time: 1636

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: _____ NA
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

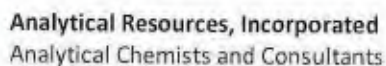
Samples Logged by: JS Date: 08/18/2020 Time: 1641 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: JSN Date: 08/18/2008 Time: 1636
00070F Cooler Temperature Compliance Form Ver



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Aug-2020 11:27

SO-TC-164A-081820
20H0189-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/18/2020 11:35

Instrument: ICP2 Analyst: SKM

Analyzed: 08/24/2020 12:48

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0189-01 A 02

Preparation Batch: BIH0400

Sample Size: 25 mL (wet)

Prepared: 08/21/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.297	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.312	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Aug-2020 11:27

SO-TC-164A-081820
20H0189-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/18/2020 11:35

Instrument: Accumet AB150 Analyst: JM

Analyzed: 08/21/2020 12:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0189-01 A

Preparation Batch: BIH0406

Sample Size: 20.84 g (wet)

Prepared: 08/21/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.52	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Aug-2020 11:27

SO-TC-164B-081820
20H0189-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/18/2020 11:40

Instrument: ICP2 Analyst: SKM

Analyzed: 08/24/2020 12:34

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0189-02 A 02

Preparation Batch: BIH0400

Sample Size: 25 mL (wet)

Prepared: 08/21/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.229	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.698	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Aug-2020 11:27

SO-TC-164B-081820
20H0189-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/18/2020 11:40

Instrument: Accumet AB150 Analyst: JM

Analyzed: 08/21/2020 12:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0189-02 A

Preparation Batch: BIH0406

Sample Size: 20.41 g (wet)

Prepared: 08/21/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.51	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Aug-2020 11:27

SO-TC-164C-081820
20H0189-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/18/2020 11:45

Instrument: ICP2 Analyst: SKM

Analyzed: 08/24/2020 12:39

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0189-03 A 02

Preparation Batch: BIH0400

Sample Size: 25 mL (wet)

Prepared: 08/21/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.212	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.195	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Aug-2020 11:27

SO-TC-164C-081820
20H0189-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/18/2020 11:45

Instrument: Accumet AB150 Analyst: JM

Analyzed: 08/21/2020 12:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0189-03 A

Preparation Batch: BIH0406

Sample Size: 20.56 g (wet)

Prepared: 08/21/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.95	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Aug-2020 11:27

TCLP Metals and Metallic Compounds - Quality Control

Batch BIH0400 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIH0400-BLK1)						Prepared: 21-Aug-2020 Analyzed: 24-Aug-2020 12:16					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BIH0400-DUP1)						Source: 20H0189-01 Prepared: 21-Aug-2020 Analyzed: 24-Aug-2020 12:43					
Arsenic	0.288	0.0140	0.250	mg/L		0.297			3.10	20	
Lead	0.316	0.0065	0.100	mg/L		0.312			1.32	20	
Matrix Spike (BIH0400-MS1)						Source: 20H0189-01 Prepared: 21-Aug-2020 Analyzed: 24-Aug-2020 12:52					
Arsenic	4.66	0.0140	0.250	mg/L	4.00	0.297	109	75-125			
Lead	4.33	0.0065	0.100	mg/L	4.00	0.312	101	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Aug-2020 11:27

Wet Chemistry - Quality Control

Batch BIH0406 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: JM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIH0406-BS1)					Prepared: 21-Aug-2020 Analyzed: 21-Aug-2020 12:02				
pH	6.98	0.01	0.01	pH Units	7.00	99.7	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Aug-2020 11:27

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Aug-2020 11:27

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Two data packages for your review and approval

From David Bosch <DBosch@tpchd.org>
Date Tue 9/15/2020 10:21 AM
To Jeff King <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Jeff,

The Tacoma-Pierce County Health Department has reviewed the two lab data sets dated September 4, 2020, and September 8, 2020. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III
Environmental Health
(253) 405-8599 c • dbosch@tpchd.org
(253) 798-6498 f • www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: Jeff King <jking@perc-nw.com>
Sent: Tuesday, September 15, 2020 9:50 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: Two data packages for your review and approval

David:

Attached are two data packages for your review and approval. Each sample represents approximately 23 CY of soil. The following table lists the data results.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Asking for approval?
SO-TC-165A-083120	0.0904	0.816	7.19	Asking for approval
SO-TC-165B-083120	0.0858	0.122	7.51	Asking for approval
SO-TC-165C-083120	0.0884	ND	8.88	Asking for approval
SO-TC-166A-090220	0.0722	1.78	8.05	Asking for approval
SO-TC-166B-090220	0.0723	0.0068	8.59	Asking for approval
SO-TC-166C-090220	0.0597	0.075	8.83	Asking for approval

Thank you
Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

04 September 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20H0331

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2020.09.04
16:09:27 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20H0331	Turn-around Requested: 3 days	Date: 8/31/2020
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 2
		Cooler Temps: 25.1



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-165A-083120	08/31/20	13:50	Soil	1	✓	✓								
SO-TC-165B-083120	08/31/20	13:55	Soil	1	✓	✓								
SO-TC-165C-083120	08/31/20	14:00	Soil	1	✓	✓								
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Jacob Walter</i>			Relinquished by: (Signature)		Received by: (Signature)	
					Printed Name: Kenny King			Printed Name: Jacob Walter			Printed Name:		Printed Name:	
					Company: PERC			Company: ARI			Company:		Company:	
					Date & Time: 8/31/2020 16:37			Date & Time: 08/31/2020 1637			Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2020 16:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-165A-083120	20H0331-01	Solid	31-Aug-2020 13:50	31-Aug-2020 16:37
SO-TC-165B-083120	20H0331-02	Solid	31-Aug-2020 13:55	31-Aug-2020 16:37
SO-TC-165C-083120	20H0331-03	Solid	31-Aug-2020 14:00	31-Aug-2020 16:37



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2020 16:08

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20H0331

Sample receipt

Samples as listed on the preceding page were received 31-Aug-2020 16:37 under ARI work order 20H0331. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH by EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20H0331-01 in batch BII0054. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 2040331

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1637

25.1

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JSW Date: 08/31/2020 Time: 1637

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JSW Date: 08/31/2020 Time: 1640 Labels checked by: JSW

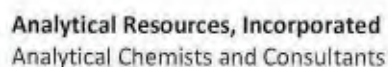
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

Completed by: Jan Date: 08/31/2020 Time: 1637
00070F Cooler Temperature Compliance Form Ver



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2020 16:08

SO-TC-165A-083120
20H0331-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/31/2020 13:50

Instrument: ICP2 Analyst: TCH

Analyzed: 09/03/2020 14:14

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0331-01 A 03

Preparation Batch: BII0031

Sample Size: 25 mL (wet)

Prepared: 09/02/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0904	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.816	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2020 16:08

SO-TC-165A-083120
20H0331-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/31/2020 13:50

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 09/02/2020 16:36

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0331-01 A

Preparation Batch: BII0054

Sample Size: 20.22 g (wet)

Prepared: 09/02/2020

Final Volume: 20.22 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.19	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2020 16:08

SO-TC-165B-083120
20H0331-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/31/2020 13:55

Instrument: ICP2 Analyst: TCH

Analyzed: 09/03/2020 14:19

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0331-02 A 03

Preparation Batch: BII0031

Sample Size: 25 mL (wet)

Prepared: 09/02/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0858	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.122	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2020 16:08

SO-TC-165B-083120
20H0331-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/31/2020 13:55

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 09/02/2020 16:36

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0331-02 A

Preparation Batch: BII0054

Sample Size: 20.08 g (wet)

Prepared: 09/02/2020

Final Volume: 20.08 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.51	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2020 16:08

SO-TC-165C-083120
20H0331-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 08/31/2020 14:00

Instrument: ICP2 Analyst: TCH

Analyzed: 09/03/2020 14:23

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20H0331-03 A 03

Preparation Batch: BII0031

Sample Size: 25 mL (wet)

Prepared: 09/02/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0884	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2020 16:08

SO-TC-165C-083120
20H0331-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/31/2020 14:00

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 09/02/2020 16:36

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20H0331-03 A

Preparation Batch: BII0054

Sample Size: 20.15 g (wet)

Prepared: 09/02/2020

Final Volume: 20.15 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.88	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2020 16:08

TCLP Metals and Metallic Compounds - Quality Control

Batch BII0031 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BII0031-BLK1)					Prepared: 02-Sep-2020 Analyzed: 03-Sep-2020 14:01				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2020 16:08

Wet Chemistry - Quality Control

Batch BII0054 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BII0054-BS1)									
Prepared: 02-Sep-2020 Analyzed: 02-Sep-2020 16:36									
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8		
Duplicate (BII0054-DUP1)									
Source: 20H0331-01 Prepared: 02-Sep-2020 Analyzed: 02-Sep-2020 16:36									
pH	7.15	0.01	0.01	pH Units	7.19	0.56	20		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2020 16:08

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Sep-2020 16:08

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

08 September 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20I0019

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2020.09.08
08:25:39 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2010019	Turn-around Requested: 3 days	Date: 9/02/2020
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 2 Cooler Temps: 27.7



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments			
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C										
Sample ID	Date	Time	Matrix	No. Containers												
SO-TC-166A-090220	09/02/20	13:30	Soil	1	✓	✓										
SO-TC-166B-090220	09/02/20	13:45	Soil	1	✓	✓										
SO-TC-166C-090220	09/02/20	13:50	Soil	1	✓	✓										
Comments/Special Instructions					Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)			Received by: (Signature)						
					Printed Name: JEFF KING			Printed Name: Jacob Laik			Printed Name:			Printed Name:		
					Company: PERC			Company: ARI			Company:			Company:		
					Date & Time: 9/2/2020 2:55P.			Date & Time: 9/2/2020 1455			Date & Time:			Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Sep-2020 08:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-166A-090220	20I0019-01	Solid	02-Sep-2020 13:30	02-Sep-2020 14:55
SO-TC-166B-090220	20I0019-02	Solid	02-Sep-2020 13:45	02-Sep-2020 14:55
SO-TC-166C-090220	20I0019-03	Solid	02-Sep-2020 13:50	02-Sep-2020 14:55



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Sep-2020 08:22

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20I0019

Sample receipt

Samples as listed on the preceding page were received 02-Sep-2020 14:55 under ARI work order 20I0019. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20I0019-01 in batch BII0152. The duplicate (DUP) relative percent difference (RPD) were within limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 20I0019-01 in batch BII0114. The duplicate (DUP) relative percent difference (RPD) were within limits and the matrix spike (MS) percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 2010019

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1455

27.7

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JS Date: 09/02/2009 Time: 1455

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JS Date: 09/02/2009 Time: 1518 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 2070019

Cooler#: _____ Temperature(°C): 27.7

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: SGM Date: 08/02/2000 Time: 1455

00070F

Cooler Temperature Compliance Form



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Sep-2020 08:22

SO-TC-166A-090220
20I0019-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/02/2020 13:30

Instrument: ICP2 Analyst: TCH

Analyzed: 09/07/2020 11:15

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20I0019-01 A 03

Preparation Batch: BII0114

Sample Size: 25 mL (wet)

Prepared: 09/04/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0722	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	1.78	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Sep-2020 08:22

SO-TC-166A-090220
20I0019-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/02/2020 13:30

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 09/06/2020 11:06

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20I0019-01 A

Preparation Batch: BII0152

Sample Size: 20.06 g (wet)

Prepared: 09/06/2020

Final Volume: 20.06 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.05	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Sep-2020 08:22

SO-TC-166B-090220
20I0019-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/02/2020 13:45

Instrument: ICP2 Analyst: TCH

Analyzed: 09/07/2020 10:52

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20I0019-02 A 03

Preparation Batch: BII0114

Sample Size: 25 mL (wet)

Prepared: 09/04/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0723	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0068	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Sep-2020 08:22

SO-TC-166B-090220
20I0019-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/02/2020 13:45

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 09/06/2020 11:06

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20I0019-02 A

Preparation Batch: BII0152

Sample Size: 20.19 g (wet)

Prepared: 09/06/2020

Final Volume: 20.19 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.59	pH Units	



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8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Sep-2020 08:22

SO-TC-166C-090220
20I0019-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/02/2020 13:50

Instrument: ICP2 Analyst: TCH

Analyzed: 09/07/2020 10:57

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20I0019-03 A 03

Preparation Batch: BII0114

Sample Size: 25 mL (wet)

Prepared: 09/04/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0597	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0750	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Sep-2020 08:22

SO-TC-166C-090220
20I0019-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/02/2020 13:50

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 09/06/2020 11:06

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20I0019-03 A

Preparation Batch: BII0152

Sample Size: 20.12 g (wet)

Prepared: 09/06/2020

Final Volume: 20.12 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.83	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Sep-2020 08:22

TCLP Metals and Metallic Compounds - Quality Control

Batch BII0114 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BII0114-BLK1)						Prepared: 04-Sep-2020 Analyzed: 07-Sep-2020 10:48					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BII0114-DUP1)						Source: 20I0019-01 Prepared: 04-Sep-2020 Analyzed: 07-Sep-2020 11:11					
Arsenic	0.0945	0.0140	0.250	mg/L		0.0722			26.70	20	L, J
Lead	1.80	0.0065	0.100	mg/L		1.78			1.24	20	
Matrix Spike (BII0114-MS1)						Source: 20I0019-01 Prepared: 04-Sep-2020 Analyzed: 07-Sep-2020 11:20					
Arsenic	4.43	0.0140	0.250	mg/L	4.00	0.0722	109	75-125			
Lead	5.77	0.0065	0.100	mg/L	4.00	1.78	99.8	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Sep-2020 08:22

Wet Chemistry - Quality Control

Batch BII0152 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BII0152-BS1)										
					Prepared: 06-Sep-2020 Analyzed: 06-Sep-2020 11:06					
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8			
Duplicate (BII0152-DUP1)										
					Source: 20I0019-01 Prepared: 06-Sep-2020 Analyzed: 06-Sep-2020 11:06					
pH	8.12	0.01	0.01	pH Units	8.05	0.87	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Sep-2020 08:22

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Sep-2020 08:22

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: One data package for your review and approval

From David Bosch <DBosch@tpchd.org>
Date Tue 9/22/2020 9:21 AM
To Jeff King <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Good morning Jeff,

The Tacoma-Pierce County Health Department has reviewed the data sets dated September 15, 2020. I understand that the batch associated with Sample SO-TC-167A-090920 will be reprocessed. The other two batches are acceptable for disposal at the LRI Landfill.

Have a nice day!

David Bosch

Environmental Health Specialist III
Environmental Health
(253) 405-8599 c • dbosch@tpchd.org
(253) 798-6498 f • www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: Jeff King <jking@perc-nw.com>
Sent: Tuesday, September 22, 2020 8:51 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: One data package for your review and approval

David:

Attached is one data package for your review and approval. WE ARE NOT ASKING FOR PERMISSION TO DISPOSE OF THE SOILS RELATED TO SAMPLE SO-TC-167A-090920. This soil, along with ¼ of SO-TC-167B-090920, have been returned to treatment and are being reprocessed. I included the data on the table below for completeness. Each sample represents approximately 22 CY of soil.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Asking for approval?
SO-TC-167A-090920	0.156	11.5	6.54	NOT ASKING FOR APPROVAL - BEING RETREATED
SO-TC-167B-090920	0.081	1.26	8.03	Asking for approval
SO-TC-167C-090920	0.0559	0.0294	8.01	Asking for approval

Thank you
Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

15 September 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20I0112

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by Shelly Fishel
Date: 2020.09.15 18:42:44 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclosed Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2070112		Turn-around Requested: 3 days		Date: 9/9/2020		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC		Phone: 425-346-0921		Page: of							
Client Contact: Kenny King		No. of Coolers: 5		Cooler Temps: 27.4							
Client Project Name: Superlon Plastics				Analysis Requested						Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		pH 9045C					
Sample ID	Date	Time	Matrix	No. Containers							
SO-TC-167A-090920	09/09/20	14:05	Soil	1	✓	✓					
SO-TC-167B-090920	09/09/20	14:10	Soil	1	✓	✓					
SO-TC-167C-090920	09/09/20	14:15	Soil	1	✓	✓					
Comments/Special Instructions				Relinquished by:		Received by:		Relinquished by:		Received by:	
				(Signature) <i>Kenny King</i>		(Signature) <i>Jacob Walter</i>		(Signature)		(Signature)	
				Printed Name: Kenny King		Printed Name: Jacob Walter		Printed Name:		Printed Name:	
				Company: PERC		Company: ARI		Company:		Company:	
Date & Time: 9/9/2020 16:35		Date & Time: 09/09/2020 1635		Date & Time:		Date & Time:					

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Sep-2020 18:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-167A-090920	20I0112-01	Solid	09-Sep-2020 14:05	09-Sep-2020 16:35
SO-TC-167B-090920	20I0112-02	Solid	09-Sep-2020 14:10	09-Sep-2020 16:35
SO-TC-167C-090920	20I0112-03	Solid	09-Sep-2020 14:15	09-Sep-2020 16:35



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Sep-2020 18:40

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 2010112

Sample receipt

Samples as listed on the preceding page were received 09-Sep-2020 16:35 under ARI work order 2010112. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 2010112-01 in batch BII0280. The duplicate (DUP) relative percent difference (RPD) was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 2010112-01 in batch BII0273. The duplicate (DUP) relative percent difference (RPD) and matrix spike (MS) percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 2010112

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1635

27.4

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JL

Date: 09/09/2004 Time: 1635

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI. NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JL Date: 09/09/2004 Time: 1734 Labels checked by: JL

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 0070112

Cooler#: _____ Temperature(°C): 27.9

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: Jan Date: 09/09/2000 Time: 1635



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Sep-2020 18:40

SO-TC-167A-090920
20I0112-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/09/2020 14:05

Instrument: ICP2 Analyst: SKM

Analyzed: 09/11/2020 19:06

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20I0112-01 A 03

Preparation Batch: BII0273

Sample Size: 25 mL (wet)

Prepared: 09/11/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.156	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	11.5	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Sep-2020 18:40

SO-TC-167A-090920
20I0112-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/09/2020 14:05

Instrument: Accumet AB150 Analyst: JM

Analyzed: 09/11/2020 12:04

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20I0112-01 A

Preparation Batch: BII0280

Sample Size: 20.5 g (wet)

Prepared: 09/11/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.54	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Sep-2020 18:40

SO-TC-167B-090920
20I0112-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/09/2020 14:10

Instrument: ICP2 Analyst: SKM

Analyzed: 09/11/2020 18:52

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20I0112-02 A 03

Preparation Batch: BII0273

Sample Size: 25 mL (wet)

Prepared: 09/11/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0810	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	1.26	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Sep-2020 18:40

SO-TC-167B-090920
20I0112-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/09/2020 14:10

Instrument: Accumet AB150 Analyst: JM

Analyzed: 09/11/2020 12:04

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20I0112-02 A

Preparation Batch: BII0280

Sample Size: 20.49 g (wet)

Prepared: 09/11/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.03	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Sep-2020 18:40

SO-TC-167C-090920
20I0112-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/09/2020 14:15

Instrument: ICP2 Analyst: SKM

Analyzed: 09/11/2020 18:57

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20I0112-03 A 03

Preparation Batch: BII0273

Sample Size: 25 mL (wet)

Prepared: 09/11/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0559	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0294	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Sep-2020 18:40

SO-TC-167C-090920
20I0112-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/09/2020 14:15

Instrument: Accumet AB150 Analyst: JM

Analyzed: 09/11/2020 12:04

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20I0112-03 A

Preparation Batch: BII0280

Sample Size: 20.64 g (wet)

Prepared: 09/11/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.01	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Sep-2020 18:40

TCLP Metals and Metallic Compounds - Quality Control

Batch BII0273 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BII0273-BLK1)						Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 18:48					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BII0273-DUP1)						Source: 20I0112-01 Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 19:02					
Arsenic	0.174	0.0140	0.250	mg/L		0.156			10.60	20	J
Lead	11.6	0.0065	0.100	mg/L		11.5			0.56	20	
Matrix Spike (BII0273-MS1)						Source: 20I0112-01 Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 19:11					
Arsenic	4.47	0.0140	0.250	mg/L	4.00	0.156	108	75-125			
Lead	16.1	0.0065	0.100	mg/L	4.00	11.5	114	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Sep-2020 18:40

Wet Chemistry - Quality Control

Batch BII0280 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: JM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BII0280-BS1)						Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 12:04					
pH	6.95	0.01	0.01	pH Units	7.00		99.3	99.2-100.8			
Duplicate (BII0280-DUP1)						Source: 20I0112-01 Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 12:04					
pH	6.59	0.01	0.01	pH Units		6.54			0.76	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Sep-2020 18:40

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Sep-2020 18:40

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Two data packages for you review and approval

From David Bosch <DBosch@tpchd.org>
Date Tue 9/29/2020 7:40 AM
To Jeff King <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Good morning Jeff,

The Tacoma-Pierce County Health Department has reviewed the two data sets dated September 28, 2020. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III
Environmental Health
(253) 405-8599 c • dbosch@tpchd.org
(253) 798-6498 f • www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: Jeff King <jking@perc-nw.com>
Sent: Tuesday, September 29, 2020 7:01 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: Two data packages for you review and approval

David:

Attached are two data packages for you review and approval. Each sample represents approximately 22 CY of soil. The following table lists the TCLP analytical results.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Asking for approval?
SO-TC-169A-092120	0.112	0.751	6.71	Asking for approval
SO-TC-169B-092120	0.0963	0.0158	7.15	Asking for approval
SO-TC-169C-092120	0.107	0.92	7.36	Asking for approval
SO-TC-170A-092220	0.125	ND	8.48	Asking for approval
SO-TC-170B-092220	0.138	0.0066	8.07	Asking for approval
SO-TC-170C-092220	0.107	0.0097	8	Asking for approval

Thank you
Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

28 September 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20I0291

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed
by Shelly Fishel
Date: 2020.09.28
11:45:23 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 18010291	Turn-around Requested: 3 days
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Client Contact: **Kenny King**

Client Project #: SLON	Samplers: King
------------------------	----------------

Sample ID	Date	Time	Matrix	No. Containers
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SO-TC-169A-092120	09/21/20	15:35	Soil	1
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SO-TC-169B-092120	09/21/20	15:40	Soil	1
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SO-TC-169C-092120	09/21/20	15:45	Soil	1
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1				
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Comments/Special Instructions	Relinquished by: (Signature) 	Received by: (Signature) 
-------------------------------	---	---

Printed Name:	Printed Name:
Kenn King	Kenn King

Company:	Company:
BEAC	BEAC

TEAC Date & Time: 21/03/2020 11:00	21/3 Date & Time: 21/3
--	--

9/21/2020	16:44	91.0
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Page: of

No. of Coolers: 1	Cooler Temps: 24.1
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Analysis Requested

Notes/Comments



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Comments/Special Instructions

Relinquished by:

(Signature)

Printed Name:

Company:

Date & Time:

Received by:

(Signature)

Printed Name:

Company:

Date & Time:

Relinquished by:

(Signature)

Printed Name:

Company:

Date & Time:

Received by:

(Signature)

Printed Name:

Company:

Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-169A-092120	20I0291-01	Solid	21-Sep-2020 15:35	21-Sep-2020 16:44
SO-TC-169B-092120	20I0291-02	Solid	21-Sep-2020 15:40	21-Sep-2020 16:44
SO-TC-169C-092120	20I0291-03	Solid	21-Sep-2020 15:45	21-Sep-2020 16:44



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:43

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 2010291

Sample receipt

Samples as listed on the preceding page were received 21-Sep-2020 16:44 under ARI work order 2010291. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC Kenny King

COC No(s): _____ (NA)

Assigned ARI Job No: 2010291

Project Name: Superlan Plastics

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES (NO)

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 16:44 24.1

If cooler temperature is out of compliance fill out form D0070F Temp Gun ID#: DOO

Cooler Accepted by: KD Date: 9/21/20 Time: 1644

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? (NA) YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) (NA) YES NO

Were all VOC vials free of air bubbles? (NA) YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: (NA)

Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

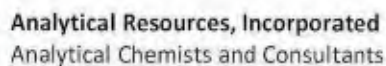
Samples Logged by: SC Date: 09/21/2020 Time: 16:19:01 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: SC Date: 09/21/2020 Time: 16:44
00070F Cooler Temperature Compliance Form Ver



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:43

SO-TC-169A-092120
20I0291-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/21/2020 15:35

Instrument: ICP2 Analyst: SKM

Analyzed: 09/24/2020 18:49

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20I0291-01 A 02

Preparation Batch: BII0669

Sample Size: 25 mL (wet)

Prepared: 09/24/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.112	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.751	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:43

SO-TC-169A-092120
20I0291-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/21/2020 15:35

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 09/28/2020 08:40

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20I0291-01 A

Preparation Batch: BII0698

Sample Size: 20.02 g (wet)

Prepared: 09/24/2020

Final Volume: 20.02 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.71	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:43

SO-TC-169B-092120
20I0291-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/21/2020 15:40

Instrument: ICP2 Analyst: SKM

Analyzed: 09/24/2020 18:54

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20I0291-02 A 02

Preparation Batch: BII0669

Sample Size: 25 mL (wet)

Prepared: 09/24/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0963	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0158	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:43

SO-TC-169B-092120
20I0291-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/21/2020 15:40

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 09/28/2020 08:40

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20I0291-02 A

Preparation Batch: BII0698

Sample Size: 20.06 g (wet)

Prepared: 09/24/2020

Final Volume: 20.06 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.15	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:43

SO-TC-169C-092120
20I0291-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/21/2020 15:45

Instrument: ICP2 Analyst: SKM

Analyzed: 09/25/2020 15:54

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20I0291-03 A 02

Preparation Batch: BII0669

Sample Size: 25 mL (wet)

Prepared: 09/24/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.107	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.920	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:43

SO-TC-169C-092120
20I0291-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/21/2020 15:45

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 09/28/2020 08:40

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20I0291-03 A

Preparation Batch: BII0698

Sample Size: 20.16 g (wet)

Prepared: 09/24/2020

Final Volume: 20.16 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.36	pH Units	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:43

TCLP Metals and Metallic Compounds - Quality Control

Batch BII0669 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BII0669-BLK1)					Prepared: 24-Sep-2020 Analyzed: 24-Sep-2020 18:03				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	0.0082	0.0065	0.100	mg/L					J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:43

Wet Chemistry - Quality Control

Batch BII0698 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BII0698-BS1)										
						Prepared: 24-Sep-2020 Analyzed: 28-Sep-2020 08:40				
pH	7.01	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BII0698-DUP1)										
		Source: 20I0291-01				Prepared: 24-Sep-2020 Analyzed: 28-Sep-2020 08:40				
pH	6.65	0.01	0.01	pH Units	6.71			0.90	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:43

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:43

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

28 September 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20I0308

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2020.09.28
11:51:10 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2010308	Turn-around Requested: 3 days	Date: 9/22/2020
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 1 Cooler Temps: 27.0



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-170A-092220	09/22/20	13:30	Soil	1	✓	✓							
SO-TC-170B-092220	09/22/20	13:35	Soil	1	✓	✓							
SO-TC-170C-092220	09/22/20	13:40	Soil	1	✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>				Received by: (Signature) <i>Kenny King</i>				
					Printed Name: Kenny King				Printed Name: Kenny King				
					Company: PERC				Company: ARI				
					Date & Time: 9/22/2020 16:42				Date & Time: 9/22/20 1642				

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-170A-092220	20I0308-01	Solid	22-Sep-2020 13:30	22-Sep-2020 16:42
SO-TC-170B-092220	20I0308-02	Solid	22-Sep-2020 13:35	22-Sep-2020 16:42
SO-TC-170C-092220	20I0308-03	Solid	22-Sep-2020 13:40	22-Sep-2020 16:42



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:49

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 2010308

Sample receipt

Samples as listed on the preceding page were received 22-Sep-2020 16:42 under ARI work order 2010308. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PEPC Project Name: Superlon Plastics
COC No(s): NA Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA
Assigned ARI Job No: 2010308 Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 27.0

Time 1642

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: ED Date: 9/22/20 Time: 1642

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? NA YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES NO Date/Time: 9/22/20 Equipment: NA Split by: SLF

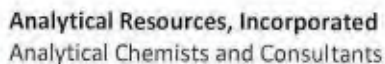
Samples Logged by: DR Date: 9/22/20 Time: 1642 Labels checked by: SLF

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

[illegible]

Completed by: KID
00070F

Date: 9/22/20 Time: 1647

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:49

SO-TC-170A-092220
20I0308-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/22/2020 13:30

Instrument: ICP2 Analyst: SKM

Analyzed: 09/24/2020 19:12

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20I0308-01 A 02

Preparation Batch: BII0669

Sample Size: 25 mL (wet)

Prepared: 09/24/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.125	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:49

SO-TC-170A-092220
20I0308-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/22/2020 13:30

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 09/28/2020 08:40

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20I0308-01 A

Preparation Batch: BII0698

Sample Size: 20.04 g (wet)

Prepared: 09/24/2020

Final Volume: 20.04 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.48	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:49

SO-TC-170B-092220
20I0308-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/22/2020 13:35

Instrument: ICP2 Analyst: SKM

Analyzed: 09/24/2020 19:16

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20I0308-02 A 02

Preparation Batch: BII0669

Sample Size: 25 mL (wet)

Prepared: 09/24/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.138	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0066	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:49

SO-TC-170B-092220
20I0308-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/22/2020 13:35

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 09/28/2020 08:40

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20I0308-02 A

Preparation Batch: BII0698

Sample Size: 20.19 g (wet)

Prepared: 09/24/2020

Final Volume: 20.19 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.07	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:49

SO-TC-170C-092220
20I0308-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/22/2020 13:40

Instrument: ICP2 Analyst: SKM

Analyzed: 09/24/2020 19:21

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20I0308-03 A 02

Preparation Batch: BII0669

Sample Size: 25 mL (wet)

Prepared: 09/24/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.107	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0097	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:49

SO-TC-170C-092220
20I0308-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/22/2020 13:40

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 09/28/2020 08:40

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20I0308-03 A

Preparation Batch: BII0698

Sample Size: 20.05 g (wet)

Prepared: 09/24/2020

Final Volume: 20.05 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.00	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:49

TCLP Metals and Metallic Compounds - Quality Control

Batch BII0669 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BII0669-BLK1)					Prepared: 24-Sep-2020 Analyzed: 24-Sep-2020 18:03				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	0.0082	0.0065	0.100	mg/L					J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:49

Wet Chemistry - Quality Control

Batch BII0698 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BII0698-BS1)									
Prepared: 24-Sep-2020 Analyzed: 28-Sep-2020 08:40									
pH	7.01	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:49

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Sep-2020 11:49

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Three data packages for you review and approval

From David Bosch <DBosch@tpchd.org>
Date Wed 10/14/2020 8:21 AM
To Jeff King <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Good morning Jeff,

The Tacoma-Pierce County Health Department has reviewed the three laboratory data sets dated October 6th and October 13th (2). The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III
Environmental Health
(253) 405-8599 c • dbosch@tpchd.org
(253) 798-6498 f • www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: Jeff King <jking@perc-nw.com>
Sent: Tuesday, October 13, 2020 3:19 PM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: Three data packages for you review and approval

David:

Attached are three data packages for you review and approval. Each sample represents approximately 22 CY of soil. The following table lists the TCLP analytical results.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Asking for approval?
SO-TC-171A-092920	0.162	ND	7.92	Asking for approval
SO-TC-171B-092920	0.183	ND	8.22	Asking for approval
SO-TC-171C-092920	0.138	ND	7.72	Asking for approval
SO-TC-172A-100620	0.17	0.0109	9.37	Asking for approval
SO-TC-172B-100620	0.158	ND	9.44	Asking for approval
SO-TC-172C-100620	0.0504	0.0077	9.56	Asking for approval
SO-TC-173A-100620	0.0651	0.0143	8.76	Asking for approval
SO-TC-173B-100620	0.0311	0.0137	8.46	Asking for approval
SO-TC-173C-100620	0.0261	0.0093	8.34	Asking for approval

Thank you

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

06 October 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20I0487

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2020.10.06
09:43:48 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

* If you are unable to contact your participant or if they do not respond, please email us at USFSA@usf.edu. We will attempt to reach them by other means. All research samples submitted under FSDAA/FSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Oct-2020 09:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-171A-092920	20I0487-01	Solid	29-Sep-2020 11:10	29-Sep-2020 16:43
SO-TC-171B-092920	20I0487-02	Solid	29-Sep-2020 11:20	29-Sep-2020 16:43
SO-TC-171C-092920	20I0487-03	Solid	29-Sep-2020 11:30	29-Sep-2020 16:43



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Oct-2020 09:41

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 2010487

Sample receipt

Samples as listed on the preceding page were received 29-Sep-2020 16:43 under ARI work order 2010487. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): 2070487 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 2070487

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1643

27.8

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JS

Date: 09/29/2020

Time: 1643

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JS Date: 09/29/2020 Time: _____ Labels checked by: JS

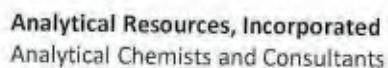
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By:

Date:



Cooler Temperature Compliance Form

Completed by: JS Date: 09/29/20 Time: 1643

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Oct-2020 09:41

SO-TC-171A-092920
20I0487-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/29/2020 11:10

Instrument: ICP2 Analyst: TCH

Analyzed: 10/02/2020 09:54

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20I0487-01 A 02

Preparation Batch: BIJ0005

Sample Size: 25 mL (wet)

Prepared: 10/01/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.162	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Oct-2020 09:41

SO-TC-171A-092920
20I0487-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/29/2020 11:10

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 10/05/2020 09:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20I0487-01 A

Preparation Batch: BIJ0088

Sample Size: 20.06 g (wet)

Prepared: 10/04/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.92	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Oct-2020 09:41

SO-TC-171B-092920
20I0487-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/29/2020 11:20

Instrument: ICP2 Analyst: TCH

Analyzed: 10/02/2020 10:27

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20I0487-02 A 02

Preparation Batch: BIJ0005

Sample Size: 25 mL (wet)

Prepared: 10/01/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.183	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Oct-2020 09:41

SO-TC-171B-092920
20I0487-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/29/2020 11:20

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 10/05/2020 09:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20I0487-02 A

Preparation Batch: BIJ0088

Sample Size: 20.15 g (wet)

Prepared: 10/04/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.22	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Oct-2020 09:41

SO-TC-171C-092920
20I0487-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 09/29/2020 11:30

Instrument: ICP2 Analyst: TCH

Analyzed: 10/02/2020 10:31

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20I0487-03 A 02

Preparation Batch: BIJ0005

Sample Size: 25 mL (wet)

Prepared: 10/01/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.138	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Oct-2020 09:41

SO-TC-171C-092920
20I0487-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/29/2020 11:30

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 10/05/2020 09:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20I0487-03 A

Preparation Batch: BIJ0088

Sample Size: 20.25 g (wet)

Prepared: 10/04/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.72	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Oct-2020 09:41

TCLP Metals and Metallic Compounds - Quality Control

Batch BIJ0005 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BIJ0005-BLK1)					Prepared: 01-Oct-2020 Analyzed: 02-Oct-2020 09:45					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Oct-2020 09:41

Wet Chemistry - Quality Control

Batch BIJ0088 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIJ0088-BS1)					Prepared: 04-Oct-2020 Analyzed: 05-Oct-2020 09:30				
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Oct-2020 09:41

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Oct-2020 09:41

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

13 October 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20J0075

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed
by Shelly Fishel
Date: 2020.10.13
14:44:42 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2030075		Turn-around Requested: 3 days		Date: 10/6/2020		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)						
ARI Client Company: PERC		Phone: 425-346-0921		Page: of								
Client Contact: Kenny King				No. of Coolers: 2				Cooler Temps: 26.6				
Client Project Name: Superlon Plastics												
Client Project #: SLON		Samplers: King		Analysis Requested						Notes/Comments		
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C						
SO-TC-172A-100620	10/06/20	15:20	Soil	1	✓	✓						
SO-TC-172B-100620	10/06/20	15:30	Soil	1	✓	✓						
SO-TC-172C-100620	10/06/20	15:40	Soil	1	✓	✓						
Comments/Special Instructions		Relinquished by:		Received by:		Relinquished by:		Received by:				
		(Signature) <i>[Signature]</i>		(Signature) <i>[Signature]</i>		(Signature)		(Signature)				
		Printed Name: Kenny King		Printed Name: Jacob Walter		Printed Name:		Printed Name:				
		Company: PERC		Company: ARZ		Company:		Company:				
		Date & Time: 10/6/20 16:47		Date & Time: 10/06/2020 1647		Date & Time:		Date & Time:				

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 14:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-172A-100620	20J0075-01	Solid	06-Oct-2020 15:20	06-Oct-2020 16:47
SO-TC-172B-100620	20J0075-02	Solid	06-Oct-2020 15:30	06-Oct-2020 16:47
SO-TC-172C-100620	20J0075-03	Solid	06-Oct-2020 15:40	06-Oct-2020 16:47



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 14:40

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20J0075

Sample receipt

Samples as listed on the preceding page were received 06-Oct-2020 16:47 under ARI work order 20J0075. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20J0075-01 in batch BIJ0305. The duplicate (DUP) relative percent difference (RPD) was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlan Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 2050075

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1647

26.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5006

Cooler Accepted by: JS Date: 10/6/2020 Time: 1647

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: KD Date: 10/7/20 Time: 0821 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 14:40

SO-TC-172A-100620
20J0075-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/06/2020 15:20

Instrument: ICP2 Analyst: TCH

Analyzed: 10/12/2020 13:53

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0075-01 A 02

Preparation Batch: BIJ0308

Sample Size: 25 mL (wet)

Prepared: 10/09/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.170	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0109	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 14:40

SO-TC-172A-100620
20J0075-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/06/2020 15:20

Instrument: UV1800-2 Analyst: UW

Analyzed: 10/09/2020 14:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0075-01 A 01

Preparation Batch: BIJ0305

Sample Size: 20.04 g (wet)

Prepared: 10/09/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.37	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 14:40

SO-TC-172B-100620
20J0075-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/06/2020 15:30

Instrument: ICP2 Analyst: TCH

Analyzed: 10/12/2020 13:58

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0075-02 A 02

Preparation Batch: BIJ0308

Sample Size: 25 mL (wet)

Prepared: 10/09/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.158	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 14:40

SO-TC-172B-100620
20J0075-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/06/2020 15:30

Instrument: UV1800-2 Analyst: UW

Analyzed: 10/09/2020 14:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0075-02 A 01

Preparation Batch: BIJ0305

Sample Size: 20.27 g (wet)

Prepared: 10/09/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.44	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 14:40

SO-TC-172C-100620
20J0075-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/06/2020 15:40

Instrument: ICP2 Analyst: TCH

Analyzed: 10/12/2020 14:02

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0075-03 A 02

Preparation Batch: BIJ0308

Sample Size: 25 mL (wet)

Prepared: 10/09/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0504	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0077	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 14:40

SO-TC-172C-100620
20J0075-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/06/2020 15:40

Instrument: UV1800-2 Analyst: UW

Analyzed: 10/09/2020 14:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0075-03 A 01

Preparation Batch: BIJ0305

Sample Size: 20.31 g (wet)

Prepared: 10/09/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.56	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 14:40

TCLP Metals and Metallic Compounds - Quality Control

Batch BIJ0308 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BIJ0308-BLK1)					Prepared: 09-Oct-2020 Analyzed: 12-Oct-2020 12:54				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 14:40

Wet Chemistry - Quality Control

Batch BIJ0305 - No Prep Wet Chem

Instrument: UV1800-2 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BIJ0305-BS1)						Prepared: 09-Oct-2020 Analyzed: 09-Oct-2020 14:38					
pH	6.97	0.01	0.01	pH Units	7.00		99.6	99.2-100.8			
Duplicate (BIJ0305-DUP1)						Source: 20J0075-01 Prepared: 09-Oct-2020 Analyzed: 09-Oct-2020 14:38					
pH	9.26	0.01	0.01	pH Units		9.37			1.18	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 14:40

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 14:40

Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

13 October 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20J0096

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed
by Shelly Fishel
Date: 2020.10.13
15:04:13 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20J0096	Turn-around Requested: 3 days	Date: 10/7/2020
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 1 Cooler Temps: 21.6



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-173A-100620	10/06/20	15:18	Soil	1	✓	✓								
SO-TC-173B-100720	10/07/20	11:00	Soil	1	✓	✓								
SO-TC-173C-100720	10/07/20	11:19	Soil	1	✓	✓								
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>	Received by: (Signature) <i>[Signature]</i>	Relinquished by: (Signature)					Received by: (Signature)		
					Printed Name: <i>Kenny King</i>	Printed Name: <i>Kenny Dang</i>	Printed Name:					Printed Name:		
					Company: <i>PERC</i>	Company: <i>ARI</i>	Company:					Company:		
					Date & Time: <i>10/7/2020 16:46</i>	Date & Time:	Date & Time:					Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 15:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-173A-100620	20J0096-01	Solid	06-Oct-2020 15:18	07-Oct-2020 16:46
SO-TC-173B-100620	20J0096-02	Solid	07-Oct-2020 11:00	07-Oct-2020 16:46
SO-TC-173C-100620	20J0096-03	Solid	07-Oct-2020 11:19	07-Oct-2020 16:46



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 15:02

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20J0096

Sample receipt

Samples as listed on the preceding page were received 07-Oct-2020 16:46 under ARI work order 20J0096. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 20J0096

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1646 21.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO5206

Cooler Accepted by: K.O Date: 10/17/20 Time: 1646

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

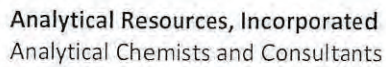
Samples Logged by: JGw Date: 10/08/2020 Time: 0805 Labels checked by: JGw

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



ARI Work Order: 20J0096

Cooler#: 1 Temperature(°C): 21.6Cooler#: _____ Temperature(°C): _____Cooler#: _____ Temperature(°C): _____Cooler#: _____ Temperature(°C): _____

Completed by: KP Date: 10/7/20 Time: 1646

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 15:02

SO-TC-173A-100620
20J0096-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/06/2020 15:18

Instrument: ICP2 Analyst: TCH

Analyzed: 10/12/2020 14:07

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0096-01 A 02

Preparation Batch: BIJ0308

Sample Size: 25 mL (wet)

Prepared: 10/09/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0651	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0143	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 15:02

SO-TC-173A-100620
20J0096-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/06/2020 15:18

Instrument: UV1800-2 Analyst: UW

Analyzed: 10/09/2020 14:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0096-01 A 01

Preparation Batch: BIJ0305

Sample Size: 20.02 g (wet)

Prepared: 10/09/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.76	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 15:02

SO-TC-173B-100620
20J0096-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/07/2020 11:00

Instrument: ICP2 Analyst: TCH

Analyzed: 10/12/2020 14:11

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0096-02 A 02

Preparation Batch: BIJ0308

Sample Size: 25 mL (wet)

Prepared: 10/09/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0311	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0137	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 15:02

SO-TC-173B-100620
20J0096-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/07/2020 11:00

Instrument: UV1800-2 Analyst: UW

Analyzed: 10/09/2020 14:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0096-02 A 01

Preparation Batch: BIJ0305

Sample Size: 20.06 g (wet)

Prepared: 10/09/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.46	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 15:02

SO-TC-173C-100620
20J0096-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/07/2020 11:19

Instrument: ICP2 Analyst: TCH

Analyzed: 10/12/2020 14:16

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0096-03 A 02

Preparation Batch: BIJ0308

Sample Size: 25 mL (wet)

Prepared: 10/09/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0261	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0093	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

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Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 15:02

SO-TC-173C-100620
20J0096-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/07/2020 11:19

Instrument: UV1800-2 Analyst: UW

Analyzed: 10/09/2020 14:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0096-03 A 01

Preparation Batch: BIJ0305

Sample Size: 20.16 g (wet)

Prepared: 10/09/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.34	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 15:02

TCLP Metals and Metallic Compounds - Quality Control

Batch BIJ0308 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIJ0308-BLK1)						Prepared: 09-Oct-2020 Analyzed: 12-Oct-2020 12:54					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 15:02

Wet Chemistry - Quality Control

Batch BIJ0305 - No Prep Wet Chem

Instrument: UV1800-2 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIJ0305-BS1)					Prepared: 09-Oct-2020 Analyzed: 09-Oct-2020 14:38				
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 15:02

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
13-Oct-2020 15:02

Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



FW: 5 DATA PACKAGES FOR YOUR REVIEW AND APPROVAL

From Jeff King <jking@perc-nw.com>
Date Tue 10/20/2020 2:39 PM
To kking perc-nw.com <kking@perc-nw.com>

From: David Bosch [mailto:DBosch@tpchd.org]
Sent: Tuesday, October 20, 2020 7:51 AM
To: Jeff King <jking@perc-nw.com>
Subject: RE: 5 DATA PACKAGES FOR YOUR REVIEW AND APPROVAL

Good morning Jeff,

The Tacoma-Pierce County Health Department has reviewed your five laboratory data sets dated October 15th (2) and October 19th (3). The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you and have a nice day!

David Bosch

Environmental Health Specialist III
Environmental Health
(253) 405-8599 c • dbosch@tpchd.org
(253) 798-6498 f • www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: Jeff King <jking@perc-nw.com>
Sent: Monday, October 19, 2020 4:57 PM
To: David Bosch <DBosch@tpchd.org>
Subject: 5 DATA PACKAGES FOR YOUR REVIEW AND APPROVAL

David:

Attached are 5 data packages for your review and approval. Each sample represents approximately 21 CY of soil. The table below presents the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Asking for approval?
SO-TC-174A-100720	0.0436	0.0185	8.5	Asking for approval
SO-TC-174B-100720	0.134	0.0792	8.14	Asking for approval
SO-TC-175A-100820	0.201	0.0098	9.7	Asking for approval
SO-TC-175B-100820	0.196	0.012	9.53	Asking for approval
SO-TC-175C-100820	0.0834	0.0103	9.48	Asking for approval
SO-TC-176A-101220	0.0313	ND	6.21	Asking for approval
SO-TC-176B-101220	0.0518	0.007	6.37	Asking for approval
SO-TC-176C-101220	0.0587	ND	6.56	Asking for approval
SO-TC-177A-101320	0.128	ND	9.51	Asking for approval
SO-TC-177B-101320	0.239	ND	9.55	Asking for approval
SO-TC-177C-101320	0.149	ND	9.61	Asking for approval
SO-TC-178A-101320	0.0695	0.0124	9.16	Asking for approval
SO-TC-178B-101320	0.0718	ND	8.7	Asking for approval
SO-TC-178C-101320	0.0443	ND	7.04	Asking for approval

Thank you
Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

15 October 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20J0135

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by
Shelly Fishel
Date: 2020.10.15
16:04:18 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2050135		Turn-around Requested: 3 days			Date: 10/8/2020		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC			Phone: 425-346-0921		Page: of									
Client Contact: Kenny King					No. of Coolers: 0 Cooler Temps: 26.2									
Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-174A-100720	10/07/20	11:30	Soil	1	✓	✓								
SO-TC-174B-100720	10/07/20	14:50	Soil	1	✓	✓								
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Kenny Dancy</i>			Relinquished by: (Signature)			Received by: (Signature)			
		Printed Name: Kenny King			Printed Name: Kenny Dancy			Printed Name:			Printed Name:			
		Company: PERC			Company: ARI			Company:			Company:			
		Date & Time: 10/7/2020 16:46			Date & Time: 10/8/20 1646			Date & Time:			Date & Time:			

Page 2 of 14 20J0135 ARISample FINAL 15 Oct 2020 1603



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 16:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-174A-100720	20J0135-01	Solid	07-Oct-2020 11:30	08-Oct-2020 16:46
SO-TC-174B-100720	20J0135-02	Solid	07-Oct-2020 14:50	08-Oct-2020 16:46



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 16:03

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20J0135

Sample receipt

Samples as listed on the preceding page were received 08-Oct-2020 16:46 under ARI work order 20J0135. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

COC No(s): _____ NA

Assigned ARI Job No: 20J0135

Project Name: Superlon Plastics

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1646

26.2

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: KD Date: 10/8/20 Time: 1646

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not Grouped

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: 0917 Split by: _____

Samples Logged by: KD Date: 10/9/20 Time: 1646 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 20J0135

Cooler#: Ø Temperature(°C): 26.2

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received
above 6°C

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: KD Date: 10/8/20 Time: 1652

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 16:03

SO-TC-174A-100720
20J0135-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/07/2020 11:30

Instrument: ICP2 Analyst: TCH

Analyzed: 10/14/2020 14:21

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0135-01 A 02

Preparation Batch: BIJ0407

Sample Size: 25 mL (wet)

Prepared: 10/13/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0436	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0185	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 16:03

SO-TC-174A-100720
20J0135-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/07/2020 11:30

Instrument: UV1800-2 Analyst: UW

Analyzed: 10/09/2020 14:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0135-01 A

Preparation Batch: BIJ0305

Sample Size: 20.48 g (wet)

Prepared: 10/09/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.50	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 16:03

SO-TC-174B-100720
20J0135-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/07/2020 14:50

Instrument: ICP2 Analyst: TCH

Analyzed: 10/14/2020 14:26

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0135-02 A 02

Preparation Batch: BIJ0407

Sample Size: 25 mL (wet)

Prepared: 10/13/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.134	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0792	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 16:03

SO-TC-174B-100720
20J0135-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/07/2020 14:50

Instrument: UV1800-2 Analyst: UW

Analyzed: 10/09/2020 14:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0135-02 A

Preparation Batch: BIJ0305

Sample Size: 20.02 g (wet)

Prepared: 10/09/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.14	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 16:03

TCLP Metals and Metallic Compounds - Quality Control

Batch BIJ0407 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BIJ0407-BLK1)						Prepared: 13-Oct-2020 Analyzed: 14-Oct-2020 13:58				
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	0.0074	0.0065	0.100	mg/L						J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 16:03

Wet Chemistry - Quality Control

Batch BIJ0305 - No Prep Wet Chem

Instrument: UV1800-2 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIJ0305-BS1)									
Prepared: 09-Oct-2020 Analyzed: 09-Oct-2020 14:38									
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 16:03

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 16:03

Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

15 October 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20J0134

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2020.10.15
16:00:18 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2030134		Turn-around Requested: 3 days			Date: 10/8/2020		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC			Phone: 425-346-0921		Page: of									
Client Contact: Kenny King					No. of Coolers: 0				Cooler Temps: 26.2					
Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-175A-100820	10/08/20	15:45	Soil	1	✓	✓								
SO-TC-175B-100820	10/08/20	15:50	Soil	1	✓	✓								
SO-TC-175C-100820	10/08/20	15:55	Soil	1	✓	✓								
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Kenny Dang</i>			Relinquished by: (Signature)			Received by: (Signature)			
		Printed Name: Kenny King			Printed Name: Kenny Dang			Printed Name:			Printed Name:			
		Company: PERC			Company: ARI			Company:			Company:			
		Date & Time: 10/8/2020 16:46			Date & Time: 10/8/20 1646			Date & Time:			Date & Time:			

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 15:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-175A-100820	20J0134-01	Solid	08-Oct-2020 15:45	08-Oct-2020 16:46
SO-TC-175B-100820	20J0134-02	Solid	08-Oct-2020 15:50	08-Oct-2020 16:46
SO-TC-175C-100820	20J0134-03	Solid	08-Oct-2020 15:55	08-Oct-2020 16:46



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 15:59

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20J0134

Sample receipt

Samples as listed on the preceding page were received 08-Oct-2020 16:46 under ARI work order 20J0134. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

COC No(s): _____ NA

Assigned ARI Job No: 2050134

Project Name: Superlon Plastics

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1646

26.2

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: KD Date: 10/8/20 Time: 1646

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: _____ NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

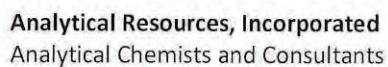
Samples Logged by: KD Date: 10/9/20 Time: 0908 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 15:59

SO-TC-175A-100820
20J0134-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/08/2020 15:45

Instrument: ICP2 Analyst: TCH

Analyzed: 10/14/2020 14:08

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0134-01 A 02

Preparation Batch: BIJ0407

Sample Size: 25 mL (wet)

Prepared: 10/13/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.201	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0098	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 15:59

SO-TC-175A-100820
20J0134-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/08/2020 15:45

Instrument: UV1800-2 Analyst: UW

Analyzed: 10/09/2020 14:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0134-01 A

Preparation Batch: BIJ0305

Sample Size: 20.39 g (wet)

Prepared: 10/09/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.70	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 15:59

SO-TC-175B-100820
20J0134-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/08/2020 15:50

Instrument: ICP2 Analyst: TCH

Analyzed: 10/14/2020 14:12

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0134-02 A 02

Preparation Batch: BIJ0407

Sample Size: 25 mL (wet)

Prepared: 10/13/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.196	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0120	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 15:59

SO-TC-175B-100820
20J0134-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/08/2020 15:50

Instrument: UV1800-2 Analyst: UW

Analyzed: 10/09/2020 14:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0134-02 A

Preparation Batch: BIJ0305

Sample Size: 20.61 g (wet)

Prepared: 10/09/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.53	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 15:59

SO-TC-175C-100820
20J0134-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/08/2020 15:55

Instrument: ICP2 Analyst: TCH

Analyzed: 10/14/2020 14:17

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0134-03 A 02

Preparation Batch: BIJ0407

Sample Size: 25 mL (wet)

Prepared: 10/13/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0834	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0103	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 15:59

SO-TC-175C-100820
20J0134-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/08/2020 15:55

Instrument: UV1800-2 Analyst: UW

Analyzed: 10/09/2020 14:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0134-03 A

Preparation Batch: BIJ0305

Sample Size: 20.04 g (wet)

Prepared: 10/09/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.48	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 15:59

TCLP Metals and Metallic Compounds - Quality Control

Batch BIJ0407 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BIJ0407-BLK1)					Prepared: 13-Oct-2020 Analyzed: 14-Oct-2020 13:58					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	0.0074	0.0065	0.100	mg/L						J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 15:59

Wet Chemistry - Quality Control

Batch BIJ0305 - No Prep Wet Chem

Instrument: UV1800-2 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIJ0305-BS1)									
Prepared: 09-Oct-2020 Analyzed: 09-Oct-2020 14:38									
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 15:59

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2020 15:59

Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

19 October 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20J0168

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
Date: 2020.10.19 15:41:21
+07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2030168		Turn-around Requested: 3 days	
ARI Client Company: PERC		Phone: 425-346-0921	
Client Contact: Kenny King			
Client Project Name: Superlon Plastics			
Client Project #: SLON		Samplers: King	
Sample ID	Date	Time	Matrix
SO-TC-176A-101220	10/12/20	13:58	Soil
SO-TC-176B-101220	10/12/20	14:14	Soil
SO-TC-176C-101220	10/12/20	15:20	Soil
Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>[Signature]</i>
	Printed Name: <i>Kenny King</i>		Printed Name: <i>[Name]</i>
	Company: <i>PERC</i>		Company: <i>[Company]</i>
	Date & Time: <i>10/12/2020 16:49</i>		Date & Time: <i>10/12/2020 16:49</i>

Notes/Comments



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	TCLP As/Pb	pH 90							
SO-TC-176A-101220	10/12/20	13:58	Soil	1	✓	✓							
SO-TC-176B-101220	10/12/20	14:14	Soil	1	✓	✓							
SO-TC-176C-101220	10/12/20	15:20	Soil	1	✓	✓							
Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>			Received by: <i>[Signature]</i> (Signature)			Relinquished by: (Signature)			Received by: (Signature)			
	Printed Name: <i>Kenny King</i>			Printed Name: <i>Jacob Walter</i>			Printed Name:			Printed Name:			
	Company: <i>PERC</i>			Company: <i>A12</i>			Company:			Company:			
	Date & Time: <i>10/12/2020 16:49</i>			Date & Time: <i>10/12/2020 1649</i>			Date & Time:			Date & Time:			

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 15:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-176A-101220	20J0168-01	Solid	12-Oct-2020 13:58	12-Oct-2020 16:49
SO-TC-176B-101220	20J0168-02	Solid	12-Oct-2020 14:14	12-Oct-2020 16:49
SO-TC-176C-101220	20J0168-03	Solid	12-Oct-2020 15:20	12-Oct-2020 16:49



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 15:38

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20J0168

Sample receipt

Samples as listed on the preceding page were received 12-Oct-2020 16:49 under ARI work order 20J0168. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries was out of control low and has been flagged within the QC section of this report.

Sample specific QC was performed in association with sample 20J0168-01. The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 20J0168-01 in batch BIJ0500. The duplicate (DUP) relative percent difference (RPD) and matrix spike (MS) percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 20J0168

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 1649

25.2

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JS Date: 10/12/2000 Time: 1649

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

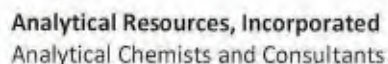
Samples Logged by: JS Date: 10/12/2000 Time: 1656 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: JS Date: 10/12/2000 Time: 1649
00070F Cooler Temperature Compliance Form Ver



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 15:38

SO-TC-176A-101220
20J0168-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/12/2020 13:58

Instrument: ICP2 Analyst: TCH

Analyzed: 10/16/2020 13:57

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0168-01 A 02

Preparation Batch: BIJ0500

Sample Size: 25 mL (wet)

Prepared: 10/15/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0313	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 15:38

SO-TC-176A-101220
20J0168-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/12/2020 13:58

Instrument: Accumet AB150 Analyst: UW

Analyzed: 10/15/2020 16:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0168-01 A 01

Preparation Batch: BIJ0508

Sample Size: 20.1 g (wet)

Prepared: 10/15/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.21	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 15:38

SO-TC-176B-101220
20J0168-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/12/2020 14:14

Instrument: ICP2 Analyst: TCH

Analyzed: 10/16/2020 13:30

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0168-02 A 02

Preparation Batch: BIJ0500

Sample Size: 25 mL (wet)

Prepared: 10/15/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0518	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0070	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 15:38

SO-TC-176B-101220
20J0168-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/12/2020 14:14

Instrument: Accumet AB150 Analyst: UW

Analyzed: 10/15/2020 16:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0168-02 A 01

Preparation Batch: BIJ0508

Sample Size: 20.02 g (wet)

Prepared: 10/15/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.37	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 15:38

SO-TC-176C-101220
20J0168-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/12/2020 15:20

Instrument: ICP2 Analyst: TCH

Analyzed: 10/16/2020 13:34

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0168-03 A 02

Preparation Batch: BIJ0500

Sample Size: 25 mL (wet)

Prepared: 10/15/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0587	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 15:38

SO-TC-176C-101220
20J0168-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/12/2020 15:20

Instrument: Accumet AB150 Analyst: UW

Analyzed: 10/15/2020 16:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0168-03 A 01

Preparation Batch: BIJ0508

Sample Size: 20.13 g (wet)

Prepared: 10/15/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.56	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 15:38

TCLP Metals and Metallic Compounds - Quality Control

Batch BIJ0500 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIJ0500-BLK1)						Prepared: 15-Oct-2020 Analyzed: 16-Oct-2020 13:21					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BIJ0500-DUP1)						Source: 20J0168-01 Prepared: 15-Oct-2020 Analyzed: 16-Oct-2020 13:53					
Arsenic	0.0342	0.0140	0.250	mg/L		0.0313			8.89	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BIJ0500-MS1)						Source: 20J0168-01 Prepared: 15-Oct-2020 Analyzed: 16-Oct-2020 14:02					
Arsenic	4.35	0.0140	0.250	mg/L	4.00	0.0313	108	75-125			
Lead	4.08	0.0065	0.100	mg/L	4.00	ND	102	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 15:38

Wet Chemistry - Quality Control

Batch BIJ0508 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIJ0508-BS1)					Prepared: 15-Oct-2020 Analyzed: 15-Oct-2020 16:15					
pH	6.93	0.01	0.01	pH Units	7.00	99.0	99.2-100.8			*
Duplicate (BIJ0508-DUP1)					Source: 20J0168-01 Prepared: 15-Oct-2020 Analyzed: 15-Oct-2020 16:15					
pH	6.18	0.01	0.01	pH Units	6.21			0.48	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 15:38

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 15:38

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

19 October 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20J0189

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2020.10.19 16:36:03
-07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2030189		Turn-around Requested: 3 days		Date: 10/13/2020		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 425-346-0921		Page: of									
Client Contact: Kenny King				No. of Coolers: 4 Cooler Temps: 23.4									
Client Project Name: Superlon Plastics				Analysis Requested						Notes/Comments			
Client Project #: SLON		Samplers: King											
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C							
SO-TC-177A-101320	10/13/20	11:20	Soil	1	✓	✓							
SO-TC-177B-101320	10/13/20	11:30	Soil	1	✓	✓							
SO-TC-177C-101320	10/13/20	11:40	Soil	1	✓	✓							
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walke</i>		Relinquished by: (Signature)		Received by: (Signature)					
		Printed Name: Kenny King		Printed Name: Jacob Walke		Printed Name:		Printed Name:					
		Company: PERC		Company: Am		Company:		Company:					
		Date & Time: 10/13/2020 16:46		Date & Time: 10/13/2020 1646		Date & Time:		Date & Time:					

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-177A-101320	20J0189-01	Solid	13-Oct-2020 11:20	13-Oct-2020 16:46
SO-TC-177B-101320	20J0189-02	Solid	13-Oct-2020 11:30	13-Oct-2020 16:46
SO-TC-177C-101320	20J0189-03	Solid	13-Oct-2020 11:40	13-Oct-2020 16:46



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:34

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20J0189

Sample receipt

Samples as listed on the preceding page were received 13-Oct-2020 16:46 under ARI work order 20J0189. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): NA
Assigned ARI Job No: 200189

Project Name: Superior Plastics
Delivered by: Fed-Ex UPS Courier Hand-Delivered Other: NA
Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1646 23.4
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO 5206

Cooler Accepted by: JS Date: 10/13/2020 Time: 1646

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

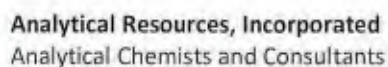
Samples Logged by: SC Date: 10/14/2020 Time: 0853 Labels checked by: SC

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:34

SO-TC-177A-101320
20J0189-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/13/2020 11:20

Instrument: ICP2 Analyst: TCH

Analyzed: 10/16/2020 14:34

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0189-01 A 02

Preparation Batch: BIJ0500

Sample Size: 25 mL (wet)

Prepared: 10/15/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.128	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:34

SO-TC-177A-101320
20J0189-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/13/2020 11:20

Instrument: Accumet AB150 Analyst: UW

Analyzed: 10/15/2020 16:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0189-01 A 01

Preparation Batch: BIJ0508

Sample Size: 20.45 g (wet)

Prepared: 10/15/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.51	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:34

SO-TC-177B-101320
20J0189-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/13/2020 11:30

Instrument: ICP2 Analyst: TCH

Analyzed: 10/16/2020 13:43

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0189-02 A 02

Preparation Batch: BIJ0500

Sample Size: 25 mL (wet)

Prepared: 10/15/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.239	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:34

SO-TC-177B-101320
20J0189-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/13/2020 11:30

Instrument: Accumet AB150 Analyst: UW

Analyzed: 10/15/2020 16:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0189-02 A 01

Preparation Batch: BIJ0508

Sample Size: 20.21 g (wet)

Prepared: 10/15/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.55	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:34

SO-TC-177C-101320
20J0189-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/13/2020 11:40

Instrument: ICP2 Analyst: TCH

Analyzed: 10/16/2020 13:48

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0189-03 A 02

Preparation Batch: BIJ0500

Sample Size: 25 mL (wet)

Prepared: 10/15/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.149	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:34

SO-TC-177C-101320
20J0189-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/13/2020 11:40

Instrument: Accumet AB150 Analyst: UW

Analyzed: 10/15/2020 16:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0189-03 A 01

Preparation Batch: BIJ0508

Sample Size: 20.28 g (wet)

Prepared: 10/15/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.61	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:34

TCLP Metals and Metallic Compounds - Quality Control

Batch BIJ0500 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BIJ0500-BLK1)					Prepared: 15-Oct-2020 Analyzed: 16-Oct-2020 13:21				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:34

Wet Chemistry - Quality Control

Batch BIJ0508 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIJ0508-BS1)					Prepared: 15-Oct-2020 Analyzed: 15-Oct-2020 16:15				
pH	6.93	0.01	0.01	pH Units	7.00	99.0	99.2-100.8		*



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:34

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:34

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

19 October 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20J0190

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2020.10.19 16:32:55
-07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2050190		Turn-around Requested: 3 days		Date: 10/13/2020		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC		Phone: 425-346-0921		Page: of							
Client Contact: Kenny King		No. of Coolers: 4		Cooler Temps: 23.4							
Client Project Name: Superlon Plastics				Analysis Requested						Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		pH 9045C					
Sample ID	Date	Time	Matrix	No. Containers							
SO-TC-178A-101320	10/13/20	09:00	Soil	1	✓	✓					
SO-TC-178B-101320	10/13/20	09:15	Soil	1	✓	✓					
SO-TC-178C-101320	10/13/20	15:25	Soil	1	✓	✓					
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walter</i>		Relinquished by: (Signature)		Received by: (Signature)			
		Printed Name: Kenny King		Printed Name: Jacob Walter		Printed Name:		Printed Name:			
		Company: PERC		Company: ARC		Company:		Company:			
		Date & Time: 10/13/2020 16:46		Date & Time: 10/13/2020 1646		Date & Time:		Date & Time:			

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-178A-101320	20J0190-01	Solid	13-Oct-2020 09:00	13-Oct-2020 16:46
SO-TC-178B-101320	20J0190-02	Solid	13-Oct-2020 09:15	13-Oct-2020 16:46
SO-TC-178C-101320	20J0190-03	Solid	13-Oct-2020 15:25	13-Oct-2020 16:46



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:30

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20J0190

Sample receipt

Samples as listed on the preceding page were received 13-Oct-2020 16:46 under ARI work order 20J0190. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 20J0190

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1646

23.4

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO5206

Cooler Accepted by: JS

Date: 10/13/2020

Time: 1646

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI... NA
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: SC Date: 10/14/20 Time: 10:09:06 Labels checked by: SC

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:30

SO-TC-178A-101320
20J0190-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/13/2020 09:00

Instrument: ICP2 Analyst: TCH

Analyzed: 10/16/2020 14:16

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0190-01 A 02

Preparation Batch: BIJ0500

Sample Size: 25 mL (wet)

Prepared: 10/15/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0695	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0124	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:30

SO-TC-178A-101320
20J0190-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/13/2020 09:00

Instrument: Accumet AB150 Analyst: UW

Analyzed: 10/15/2020 16:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0190-01 A 01

Preparation Batch: BIJ0508

Sample Size: 20.28 g (wet)

Prepared: 10/15/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.16	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:30

SO-TC-178B-101320
20J0190-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/13/2020 09:15

Instrument: ICP2 Analyst: TCH

Analyzed: 10/16/2020 14:20

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0190-02 A 02

Preparation Batch: BIJ0500

Sample Size: 25 mL (wet)

Prepared: 10/15/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0718	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:30

SO-TC-178B-101320
20J0190-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/13/2020 09:15

Instrument: Accumet AB150 Analyst: UW

Analyzed: 10/15/2020 16:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0190-02 A 01

Preparation Batch: BIJ0508

Sample Size: 20.18 g (wet)

Prepared: 10/15/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.70	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:30

SO-TC-178C-101320
20J0190-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/13/2020 15:25

Instrument: ICP2 Analyst: TCH

Analyzed: 10/16/2020 14:25

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0190-03 A 02

Preparation Batch: BIJ0500

Sample Size: 25 mL (wet)

Prepared: 10/15/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0443	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:30

SO-TC-178C-101320
20J0190-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/13/2020 15:25

Instrument: Accumet AB150 Analyst: UW

Analyzed: 10/15/2020 16:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0190-03 A 01

Preparation Batch: BIJ0508

Sample Size: 20.06 g (wet)

Prepared: 10/15/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.04	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:30

TCLP Metals and Metallic Compounds - Quality Control

Batch BIJ0500 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIJ0500-BLK1)						Prepared: 15-Oct-2020 Analyzed: 16-Oct-2020 13:21					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:30

Wet Chemistry - Quality Control

Batch BIJ0508 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIJ0508-BS1)					Prepared: 15-Oct-2020 Analyzed: 15-Oct-2020 16:15				
pH	6.93	0.01	0.01	pH Units	7.00	99.0	99.2-100.8		*



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:30

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Oct-2020 16:30

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: One data package for your review and approval

From David Bosch <DBosch@tpchd.org>
Date Tue 10/27/2020 1:37 PM
To Jeff King <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Good afternoon Jeff,

The Tacoma-Pierce County Health Department has reviewed the data set from the laboratory dated October 22, 2020. The soils associated with this waste characterization are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III
 Environmental Health
 (253) 405-8599 c • dbosch@tpchd.org
 (253) 798-6498 f • www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: Jeff King <jking@perc-nw.com>
Sent: Tuesday, October 27, 2020 11:14 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: One data package for your review and approval

David:

Only one data package your review and approval this week.

SAMPLE ID	Arsenic Concentration	Lead Concentration	pH	

	(TCLP) mg/L	(TCLP) mg/L		
SO-TC-179A-101420	0.0513	0.0244	6.69	Asking for approval
SO-TC-179B-101420	0.0718	0.0126	6.76	Asking for approval
SO-TC-179C-101420	0.0329	0.0117	6.9	Asking for approval

Thanks

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

22 October 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20J0217

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2020.10.22
16:26:05 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2030217		Turn-around Requested: 3 days			Date: 10/14/2020		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC			Phone: 425-346-0921		Page: of									
Client Contact: Kenny King					No. of Coolers: 4 Cooler Temps: 24.3									
Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-179A-101420	10/14/20	09:00	Soil	1	✓	✓								
SO-TC-179B-101420	10/14/20	09:15	Soil	1	✓	✓								
SO-TC-179C-101420	10/14/20	15:25	Soil	1	✓	✓								
Comments/Special Instructions	Relinquished by: (Signature)		Received by: (Signature)		Relinquished by: (Signature)		Received by: (Signature)							
	Printed Name: JEFF KING		Printed Name: Jacob Walter		Printed Name:		Printed Name:							
	Company: PERC		Company: ARZ		Company:		Company:							
	Date & Time: 10/14/2020 4:46		Date & Time: 10/14/2020 1646		Date & Time:		Date & Time:							

Page 2 of 16 20J0217 ARISample FINAL 22 Oct 2020 1611



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2020 16:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-179A-101420	20J0217-01	Solid	14-Oct-2020 09:00	14-Oct-2020 16:46
SO-TC-179B-101420	20J0217-02	Solid	14-Oct-2020 09:15	14-Oct-2020 16:46
SO-TC-179C-101420	20J0217-03	Solid	14-Oct-2020 15:25	14-Oct-2020 16:46



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2020 16:11

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20J0217

Sample receipt

Samples as listed on the preceding page were received 14-Oct-2020 16:46 under ARI work order 20J0217. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were outside control limits low and has been flagged within the QC section of this report.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 20J0217

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1646 24.3

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5266

Cooler Accepted by: JS Date: 10/14/2020 Time: 1646

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JS Date: 10/14/2020 Time: 1648 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

Cooler Temperature Compliance Form

[illegible]

Completed by: SS Date: 10/14/2000 Time: 1646

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2020 16:11

SO-TC-179A-101420
20J0217-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/14/2020 09:00

Instrument: ICP2 Analyst: TCH

Analyzed: 10/21/2020 12:23

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0217-01 A 02

Preparation Batch: BIJ0599

Sample Size: 25 mL (wet)

Prepared: 10/20/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0513	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0244	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2020 16:11

SO-TC-179A-101420
20J0217-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/14/2020 09:00

Instrument: Accumet AB150 Analyst: UW

Analyzed: 10/15/2020 16:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0217-01 A

Preparation Batch: BIJ0508

Sample Size: 20.04 g (wet)

Prepared: 10/15/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.69	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2020 16:11

SO-TC-179B-101420
20J0217-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/14/2020 09:15

Instrument: ICP2 Analyst: TCH

Analyzed: 10/21/2020 12:28

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0217-02 A 02

Preparation Batch: BIJ0599

Sample Size: 25 mL (wet)

Prepared: 10/20/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0718	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0126	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2020 16:11

SO-TC-179B-101420
20J0217-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/14/2020 09:15

Instrument: Accumet AB150 Analyst: UW

Analyzed: 10/15/2020 16:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0217-02 A

Preparation Batch: BIJ0508

Sample Size: 20.3 g (wet)

Prepared: 10/15/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.76	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2020 16:11

SO-TC-179C-101420
20J0217-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/14/2020 15:25

Instrument: ICP2 Analyst: TCH

Analyzed: 10/21/2020 12:32

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0217-03 A 02

Preparation Batch: BIJ0599

Sample Size: 25 mL (wet)

Prepared: 10/20/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0329	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0117	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2020 16:11

SO-TC-179C-101420
20J0217-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/14/2020 15:25

Instrument: Accumet AB150 Analyst: UW

Analyzed: 10/15/2020 16:15

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20J0217-03 A

Preparation Batch: BIJ0508

Sample Size: 20.11 g (wet)

Prepared: 10/15/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.90	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2020 16:11

TCLP Metals and Metallic Compounds - Quality Control

Batch BIJ0599 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BIJ0599-BLK1)					Prepared: 20-Oct-2020 Analyzed: 21-Oct-2020 12:19					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	0.0066	0.0065	0.100	mg/L						J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2020 16:11

Wet Chemistry - Quality Control

Batch BIJ0508 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIJ0508-BS1)									
Prepared: 15-Oct-2020 Analyzed: 15-Oct-2020 16:15									
pH	6.93	0.01	0.01	pH Units	7.00	99.0	99.2-100.8		*



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2020 16:11

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Oct-2020 16:11

Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



HD approval Four Data Packages for your review and approval

From David Bosch <DBosch@tpchd.org>
Date Tue 11/3/2020 11:54 AM
To Jeff King <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Hi Jeff,

The Tacoma-Pierce County Health Department has reviewed four data sets from the laboratory dated October 28, 29, and November 2 (2), 2020. The soils associated with this waste characterization are acceptable for disposal at the LRI Landfill.

Thank you.

****Please note: As of Nov. 20, my new phone number will be (253) 649-1841****

David Bosch

Environmental Health Specialist III
Environmental Health
(253) 405-8599 c • dbosch@tpchd.org
(253) 798-6498 f • www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: Jeff King <jking@perc-nw.com>
Sent: Tuesday, November 3, 2020 11:05 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: Four Data Packages for your review and approval

David:

Attached are Four Data Packages for your review and approval. Each sample represents approximately 22cy of soil.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH
SO-TC-180A-102020	0.226	ND	9.44
SO-TC-180B-102020	0.114	ND	9.67
SO-TC-180C-102020	0.103	ND	9.57
SO-TC-181A-102120	0.0684	0.0094	9.62
SO-TC-181B-102120	0.038	ND	9.29
SO-TC-181C-102120	0.0832	0.0119	8.66
SO-TC-182A-102720	0.0262	0.0083	8.96
SO-TC-182B-102720	0.0483	0.689	8.46
SO-TC-182C-102720	0.0363	0.735	8.81
SO-TC-183A-102120	0.0936	0.0098	6.31
SO-TC-183B-102120	0.0882	0.0167	6.78
SO-TC-183C-102120	0.088	0.0285	6.93

Thanks

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

28 October 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20J0306

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2020.10.28
14:00:41 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20J0306		Turn-around Requested: 3 days			Date: 10/20/2020				
ARI Client Company: PERC		Phone: 425-346-0921			Page: of				
Client Contact: Kenny King					No. of Coolers: 8 Cooler Temps: 21.7				
Client Project Name: Superlon Plastics					Analysis Requested				
Client Project #: SLON		Samplers: King			Notes/Comments				
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C			
SO-TC-180A-102020	10/20/20	15:30	Soil	1	✓	✓			
SO-TC-180B-102020	10/20/20	15:40	Soil	1	✓	✓			
SO-TC-180C-102020	10/20/20	15:50	Soil	1	✓	✓			
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i> Printed Name: Kenny King Company: PERC Date & Time: 10/20/2020 16:51			Received by: (Signature) <i>Jacob Walte</i> Printed Name: Jacob Walte Company: ARI Date & Time: 10/20/2020 16:51			Relinquished by: (Signature) Printed Name: Company: Date & Time:	



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Oct-2020 13:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-180A-102020	20J0306-01	Solid	20-Oct-2020 15:30	20-Oct-2020 16:51
SO-TC-180B-102020	20J0306-02	Solid	20-Oct-2020 15:40	20-Oct-2020 16:51
SO-TC-180C-102020	20J0306-03	Solid	20-Oct-2020 15:50	20-Oct-2020 16:51



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Oct-2020 13:58

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20J0306

Sample receipt

Samples as listed on the preceding page were received 20-Oct-2020 16:51 under ARI work order 20J0306. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were outside control limits low and has been flagged within the QC section of this report.

Sample specific QC was performed in association with sample 20J0306-01 in batch BIJ0714. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 2050306

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1651

21.3

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOQ 5266

Cooler Accepted by: JS

Date: 10/20/2020

Time: 1651

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

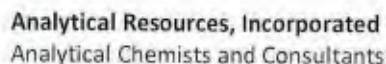
Samples Logged by: KD Date: 10/20/2020 Time: 0825 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: JB Date: 10/20/2020 Time: 1651
00070F Cooler Temperature Compliance Form



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Oct-2020 13:58

SO-TC-180A-102020
20J0306-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/20/2020 15:30

Instrument: ICP2 Analyst: TCH

Analyzed: 10/23/2020 14:16

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0306-01 A 02

Preparation Batch: BIJ0678

Sample Size: 25 mL (wet)

Prepared: 10/22/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.226	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Oct-2020 13:58

SO-TC-180A-102020
20J0306-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/20/2020 15:30

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 10/23/2020 13:24

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20J0306-01 A 03

Preparation Batch: BIJ0714

Sample Size: 20.21 g (wet)

Prepared: 10/23/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.44	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Oct-2020 13:58

SO-TC-180B-102020
20J0306-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/20/2020 15:40

Instrument: ICP2 Analyst: TCH

Analyzed: 10/23/2020 14:20

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0306-02 A 02

Preparation Batch: BIJ0678

Sample Size: 25 mL (wet)

Prepared: 10/22/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.114	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Oct-2020 13:58

SO-TC-180B-102020
20J0306-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/20/2020 15:40

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 10/23/2020 13:24

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20J0306-02 A 03

Preparation Batch: BIJ0714

Sample Size: 20.27 g (wet)

Prepared: 10/23/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.67	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Oct-2020 13:58

SO-TC-180C-102020
20J0306-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/20/2020 15:50

Instrument: ICP2 Analyst: TCH

Analyzed: 10/23/2020 14:25

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0306-03 A 02

Preparation Batch: BIJ0678

Sample Size: 25 mL (wet)

Prepared: 10/22/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.103	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Oct-2020 13:58

SO-TC-180C-102020
20J0306-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/20/2020 15:50

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 10/23/2020 13:24

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20J0306-03 A 03

Preparation Batch: BIJ0714

Sample Size: 20.59 g (wet)

Prepared: 10/23/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.57	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Oct-2020 13:58

TCLP Metals and Metallic Compounds - Quality Control

Batch BIJ0678 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIJ0678-BLK1)						Prepared: 22-Oct-2020 Analyzed: 23-Oct-2020 13:55					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Oct-2020 13:58

Wet Chemistry - Quality Control

Batch BIJ0714 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BIJ0714-BS1)						Prepared: 23-Oct-2020 Analyzed: 23-Oct-2020 13:24					
pH	6.95	0.01	0.01	pH Units	7.00		99.3	99.2-100.8			
Duplicate (BIJ0714-DUP1)						Source: 20J0306-01 Prepared: 23-Oct-2020 Analyzed: 23-Oct-2020 13:24					
pH	9.54	0.01	0.01	pH Units		9.44			1.05	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Oct-2020 13:58

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Oct-2020 13:58

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

29 October 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20J0326

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2020.10.29 13:44:12
-07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2030326		Turn-around Requested: 5 days		Date: 10/21/2020		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC		Phone: 425-346-0921		Page: of							
Client Contact: Kenny King		No. of Coolers: 1		Cooler Temps: 23.5							
Client Project Name: Superlon Plastics				Analysis Requested						Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		pH 9045C					
Sample ID	Date	Time	Matrix	No. Containers							
SO-TC-181A-102120	10/21/20	08:30	Soil	1	✓	✓					
SO-TC-181B-102120	10/21/20	08:45	Soil	1	✓	✓					
SO-TC-181C-102120	10/21/20	09:00	Soil	1	✓	✓					
Comments/Special Instructions	Relinquished by: (Signature)		Received by: (Signature)		Relinquished by: (Signature)		Received by: (Signature)				
	Printed Name: JEFF KING		Printed Name: Kenny Dang		Printed Name:		Printed Name:				
	Company: PERC		Company: ARI		Company:		Company:				
	Date & Time: 10/21/2020 2:25		Date & Time: 10/21/20 1425		Date & Time:		Date & Time:				

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2020 13:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-181A-102120	20J0326-01	Solid	21-Oct-2020 08:30	21-Oct-2020 14:25
SO-TC-181B-102120	20J0326-02	Solid	21-Oct-2020 08:45	21-Oct-2020 14:25
SO-TC-181C-102120	20J0326-03	Solid	21-Oct-2020 09:00	21-Oct-2020 14:25



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2020 13:33

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20J0326

Sample receipt

Samples as listed on the preceding page were received 21-Oct-2020 14:25 under ARI work order 20J0326. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were outside control limits low and has been flagged within the QC section of this report.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Super Ion Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 2050326

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1425 23.5

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 520C

Cooler Accepted by: KD Date: 10/21/20 Time: 1425

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? NO YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

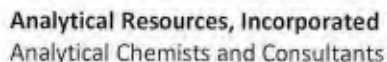
Samples Logged by: KD Date: 10/21/20 Time: 1506 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

Completed by: LP Date: 10/21/20 Time: 14:25
00070F Cooler Temperature Compliance Form Ver



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2020 13:33

SO-TC-181A-102120
20J0326-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/21/2020 08:30

Instrument: ICP2 Analyst: TCH

Analyzed: 10/28/2020 11:44

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0326-01 A 04

Preparation Batch: BIJ0767

Sample Size: 25 mL (wet)

Prepared: 10/27/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0684	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0094	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2020 13:33

SO-TC-181A-102120
20J0326-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/21/2020 08:30

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 10/23/2020 13:24

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20J0326-01 A 03

Preparation Batch: BIJ0714

Sample Size: 20.07 g (wet)

Prepared: 10/23/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.62	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2020 13:33

SO-TC-181B-102120
20J0326-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/21/2020 08:45

Instrument: ICP2 Analyst: TCH

Analyzed: 10/28/2020 11:49

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0326-02 A 04

Preparation Batch: BIJ0767

Sample Size: 25 mL (wet)

Prepared: 10/27/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0380	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2020 13:33

SO-TC-181B-102120
20J0326-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/21/2020 08:45

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 10/23/2020 13:24

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20J0326-02 A 03

Preparation Batch: BIJ0714

Sample Size: 20.3 g (wet)

Prepared: 10/23/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.29	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2020 13:33

SO-TC-181C-102120
20J0326-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/21/2020 09:00

Instrument: ICP2 Analyst: TCH

Analyzed: 10/28/2020 12:33

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0326-03 A 04

Preparation Batch: BIJ0767

Sample Size: 25 mL (wet)

Prepared: 10/27/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0832	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0119	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2020 13:33

SO-TC-181C-102120
20J0326-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/21/2020 09:00

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 10/23/2020 13:24

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20J0326-03 A 03

Preparation Batch: BIJ0714

Sample Size: 20.21 g (wet)

Prepared: 10/23/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.66	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2020 13:33

TCLP Metals and Metallic Compounds - Quality Control

Batch BIJ0767 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIJ0767-BLK1)						Prepared: 27-Oct-2020 Analyzed: 28-Oct-2020 11:14					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
LCS (BIJ0767-BS1)						Prepared: 27-Oct-2020 Analyzed: 28-Oct-2020 11:53					
Arsenic	4.17	0.0140	0.250	mg/L	4.00		104	80-120			
Lead	4.12	0.0065	0.100	mg/L	4.00		103	80-120			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2020 13:33

Wet Chemistry - Quality Control

Batch BIJ0714 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIJ0714-BS1)									
Prepared: 23-Oct-2020 Analyzed: 23-Oct-2020 13:24									
pH	6.95	0.01	0.01	pH Units	7.00	99.3	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2020 13:33

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Oct-2020 13:33

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

02 November 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20J0380

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2020.11.02
18:01:43 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20J0380	Turn-around Requested: 3 days
--	--------------------------------------

ARI Client Company: PERC	Phone: 425-346-0921
------------------------------------	----------------------------

Client Contact: Kenny King

Client Project Name: Superlon Plastics

Client Project #: SLON	Samplers: King
-------------------------------	-----------------------

Sample ID	Date	Time	Matrix	No. Containers
SO-TC-182A-102720	10/27/20	11:25	Soil	1
SO-TC-182B-102720	10/27/20	11:30	Soil	1
SO-TC-182C-102720	10/27/20	11:35	Soil	1

Date: 10/27/2020

Page: of

No. of Coolers: 0	Cooler Temps: 21.7
--------------------------	---------------------------

Analysis Requested							Notes/Comments
TCLP 1311 As/Pb Only	pH 9045C						
✓	✓						
✓	✓						
✓	✓						

Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>	Received by: (Signature) <i>Jacob Walter</i>	Relinquished by: (Signature) <i> </i>	Received by: (Signature) <i> </i>
	Printed Name: Kenny King	Printed Name: Jacob Walter	Printed Name: 	Printed Name:
	Company: PERC	Company: ARZ	Company: 	Company:
	Date & Time: 10/27/20 16:55	Date & Time: 10/27/2020 1655	Date & Time: 	Date & Time:



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 18:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-182A-102720	20J0380-01	Solid	27-Oct-2020 11:25	27-Oct-2020 16:55
SO-TC-182B-102720	20J0380-02	Solid	27-Oct-2020 11:30	27-Oct-2020 16:55
SO-TC-182C-102720	20J0380-03	Solid	27-Oct-2020 11:35	27-Oct-2020 16:55



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 18:00

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20J0380

Sample receipt

Samples as listed on the preceding page were received 27-Oct-2020 16:55 under ARI work order 20J0380. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were outside control limits low and has been flagged within the QC section of this report.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): NA
Assigned ARI Job No: 20J0380

Project Name: Superior Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA
Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1655 21.7
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID# DOO 5206
Cooler Accepted by: JB Date: 10/27/2020 Time: 1655

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

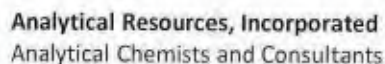
Samples Logged by: Sc Date: 10/28/2020 Time: 0828 Labels checked by: Sc

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

Completed by: JS Date: 10/27/2020 Time: 1655

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 18:00

SO-TC-182A-102720
20J0380-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/27/2020 11:25

Instrument: ICP2 Analyst: SKM

Analyzed: 10/30/2020 12:50

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0380-01 A 02

Preparation Batch: BIJ0836

Sample Size: 25 mL (wet)

Prepared: 10/29/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0262	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0083	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 18:00

SO-TC-182A-102720
20J0380-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/27/2020 11:25

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/02/2020 13:23

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20J0380-01 A 03

Preparation Batch: BIK0015

Sample Size: 21.611 g (wet)

Prepared: 11/02/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	8.96	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 18:00

SO-TC-182B-102720
20J0380-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/27/2020 11:30

Instrument: ICP2 Analyst: SKM

Analyzed: 10/30/2020 12:54

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0380-02 A 02

Preparation Batch: BIJ0836

Sample Size: 25 mL (wet)

Prepared: 10/29/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0483	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.689	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 18:00

SO-TC-182B-102720
20J0380-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/27/2020 11:30

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/02/2020 13:23

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20J0380-02 A 03

Preparation Batch: BIK0015

Sample Size: 20.338 g (wet)

Prepared: 11/02/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.46	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 18:00

SO-TC-182C-102720
20J0380-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/27/2020 11:35

Instrument: ICP2 Analyst: SKM

Analyzed: 10/30/2020 12:59

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0380-03 A 02

Preparation Batch: BIJ0836

Sample Size: 25 mL (wet)

Prepared: 10/29/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0363	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.735	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 18:00

SO-TC-182C-102720
20J0380-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/27/2020 11:35

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/02/2020 13:23

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20J0380-03 A 03

Preparation Batch: BIK0015

Sample Size: 20.181 g (wet)

Prepared: 11/02/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.81	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 18:00

TCLP Metals and Metallic Compounds - Quality Control

Batch BIJ0836 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BIJ0836-BLK1)					Prepared: 29-Oct-2020 Analyzed: 30-Oct-2020 12:32				
Arsenic	0.0149	0.0140	0.250	mg/L					J
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 18:00

Wet Chemistry - Quality Control

Batch BIK0015 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIK0015-BS1)					Prepared: 02-Nov-2020 Analyzed: 02-Nov-2020 13:23				
pH	6.99	0.01	0.01	pH Units	7.00	99.9	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 18:00

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 18:00

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

02 November 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20J0379

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2020.11.02 17:56:47
-08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2030379		Turn-around Requested: 3 days		Date: 10/27/2020		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)																
ARI Client Company: PERC		Phone: 425-346-0921		Page: of																		
Client Contact: Kenny King				No. of Coolers: 2 Cooler Temps: 21.7																		
Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments									
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only pH 9045C																	
Sample ID	Date	Time	Matrix	No. Containers																		
SO-TC-183A-102120	10/21/20	13:45	Soil	1										✓	✓							
SO-TC-183B-102720	10/27/20	08:58	Soil	1										✓	✓							
SO-TC-183C-102720	10/27/20	09:45	Soil	1										✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Jacob Walter</i>			Relinquished by: (Signature)			Received by: (Signature)								
					Printed Name: Kenny King			Printed Name: Jacob Walter			Printed Name:			Printed Name:								
					Company: PERC			Company: ARI2			Company:			Company:								
					Date & Time: 10/27/20 16:55			Date & Time: 10/27/20 1655			Date & Time:			Date & Time:								

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 17:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-183A-102120	20J0379-01	Solid	21-Oct-2020 13:45	27-Oct-2020 16:55
SO-TC-183B-102720	20J0379-02	Solid	27-Oct-2020 08:58	27-Oct-2020 16:55
SO-TC-183C-102720	20J0379-03	Solid	27-Oct-2020 09:45	27-Oct-2020 16:55



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 17:55

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20J0379

Sample receipt

Samples as listed on the preceding page were received 27-Oct-2020 16:55 under ARI work order 20J0379. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were outside control limits low and has been flagged within the QC section of this report.

Sample specific QC was performed in association with sample 20J0379-01 in batch BIK0015. The duplicate RPD was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Spartan Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 2030379

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1655 21.7

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JS Date: 10/27/2020 Time: 1655

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: SL Date: 10/28/2020 Time: 0810 Labels checked by: SL

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

ARI Work Order: 20J0379

Cooler#: _____ Temperature(°C): 21.7

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: SS

Date: 10/27/2020 Time: 1655

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 17:55

SO-TC-183A-102120
20J0379-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/21/2020 13:45

Instrument: ICP2 Analyst: SKM

Analyzed: 10/30/2020 12:36

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0379-01 A 02

Preparation Batch: BIJ0836

Sample Size: 25 mL (wet)

Prepared: 10/29/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0936	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0098	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 17:55

SO-TC-183A-102120
20J0379-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/21/2020 13:45

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/02/2020 13:23

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20J0379-01 A 03

Preparation Batch: BIK0015

Sample Size: 20.732 g (wet)

Prepared: 11/02/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.31	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 17:55

SO-TC-183B-102720
20J0379-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/27/2020 08:58

Instrument: ICP2 Analyst: SKM

Analyzed: 10/30/2020 12:41

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0379-02 A 02

Preparation Batch: BIJ0836

Sample Size: 25 mL (wet)

Prepared: 10/29/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0882	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0167	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 17:55

SO-TC-183B-102720
20J0379-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/27/2020 08:58

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/02/2020 13:23

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20J0379-02 A 03

Preparation Batch: BIK0015

Sample Size: 20.122 g (wet)

Prepared: 11/02/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.78	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 17:55

SO-TC-183C-102720
20J0379-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/27/2020 09:45

Instrument: ICP2 Analyst: SKM

Analyzed: 10/30/2020 12:45

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0379-03 A 02

Preparation Batch: BIJ0836

Sample Size: 25 mL (wet)

Prepared: 10/29/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0880	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0285	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 17:55

SO-TC-183C-102720
20J0379-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/27/2020 09:45

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/02/2020 13:23

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20J0379-03 A 03

Preparation Batch: BIK0015

Sample Size: 20.213 g (wet)

Prepared: 11/02/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.93	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 17:55

TCLP Metals and Metallic Compounds - Quality Control

Batch BIJ0836 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BIJ0836-BLK1)					Prepared: 29-Oct-2020 Analyzed: 30-Oct-2020 12:32				
Arsenic	0.0149	0.0140	0.250	mg/L					J
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 17:55

Wet Chemistry - Quality Control

Batch BIK0015 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIK0015-BS1)										
					Prepared: 02-Nov-2020		Analyzed: 02-Nov-2020 13:23			
pH	6.99	0.01	0.01	pH Units	7.00	99.9	99.2-100.8			
Duplicate (BIK0015-DUP1)										
					Source: 20J0379-01		Prepared: 02-Nov-2020 Analyzed: 02-Nov-2020 13:23			
pH	6.39	0.01	0.01	pH Units	6.31	1.26	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 17:55

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2020 17:55

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: 3 data packages for your consideration

From David Bosch <DBosch@tpchd.org>
Date Tue 11/10/2020 1:15 PM
To Jeff King <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Jeff,

The Tacoma-Pierce County Health Department has reviewed three data sets from the laboratory dated November 5 and November 9 (2), 2020. I understand that batch SO-TC-184C-102820 will be reprocessed. However, the other soils associated with this waste characterization are acceptable for disposal at the LRI Landfill.

Thank you.

****Please note: As of Nov. 25, my new phone number will be (253) 649-1841****

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 405-8599 c • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: Jeff King <jking@perc-nw.com>
Sent: Tuesday, November 10, 2020 8:24 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: 3 data packages for your consideration

David:

Attached are 3 data packages for your consideration. We are NOT asking for approval of the soils associated with sample SO-TC-184C-102820 – it is being retreated.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	
SO-TC-184A-102820	ND	0.0151	8.53	Asking for approval
SO-TC-184B-102820	ND	2.04	7.09	Asking for approval
SO-TC-184C-102820	ND	5.22	7.81	NOT ASKING FOR APPROVAL - BEING RETREATED
SO-TC-185A-110320	0.0614	0.159	8.17	Asking for approval
SO-TC-185B-110320	0.0305	0.0714	8.91	Asking for approval
SO-TC-185C-110320	0.0475	ND	9.33	Asking for approval
SO-TC-186A-102820	0.106	0.1	7.86	Asking for approval

Thanks
Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

05 November 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20J0392

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed
by Shelly Fishel
Date: 2020.11.05
07:41:49 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

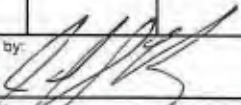
Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2030392	Turn-around Requested: 5 days	Date: 10/28/2020
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 4 Cooler Temps: 22.4



Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments			
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C										
Sample ID	Date	Time	Matrix	No. Containers												
SO-TC-184A-102820	10/28/20	15:40	Soil	1	✓	✓										
SO-TC-184B-102820	10/28/20	15:50	Soil	1	✓	✓										
SO-TC-184C-102820	10/28/20	16:00	Soil	1	✓	✓										
Comments/Special Instructions	Relinquished by: 				Received by: 				Relinquished by:				Received by:			
	(Signature)				(Signature)				(Signature)				(Signature)			
	Printed Name: JEFF KING				Printed Name: Jacob Latta				Printed Name:				Printed Name:			
	Company: PERC				Company: ALI				Company:				Company:			
	Date & Time: 10/28/2020 4:45				Date & Time: 10/28/2020 1645				Date & Time:				Date & Time:			

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Nov-2020 07:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-184A-102820	20J0392-01	Solid	28-Oct-2020 15:40	29-Oct-2020 08:20
SO-TC-184B-102820	20J0392-02	Solid	28-Oct-2020 15:50	29-Oct-2020 08:20
SO-TC-184C-102820	20J0392-03	Solid	28-Oct-2020 16:00	29-Oct-2020 08:20



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Nov-2020 07:36

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20J0392

Sample receipt

Samples as listed on the preceding page were received 29-Oct-2020 08:20 under ARI work order 20J0392. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20J0392-01 in batch BIK0113. The duplicate (DUP) relative percent difference (RPD) was within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 2050392

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1645

22.4

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JL Date: 10/28/20 Time: 1645

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: KD Date: 10/29/20 Time: 1645 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 2050392

Cooler#: _____ Temperature(°C): 22.4

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: SS

Date: 10/28/2020

Time: 1645

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Nov-2020 07:36

SO-TC-184A-102820
20J0392-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/28/2020 15:40

Instrument: ICP2 Analyst: SKM

Analyzed: 11/03/2020 17:49

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0392-01 A 02

Preparation Batch: BIK0047

Sample Size: 25 mL (wet)

Prepared: 11/03/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0151	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Nov-2020 07:36

SO-TC-184A-102820
20J0392-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/28/2020 15:40

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/04/2020 15:00

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20J0392-01 A 03

Preparation Batch: BIK0113

Sample Size: 21.27 g (wet)

Prepared: 11/04/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	8.53	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Nov-2020 07:36

SO-TC-184B-102820
20J0392-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/28/2020 15:50

Instrument: ICP2 Analyst: SKM

Analyzed: 11/03/2020 17:54

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0392-02 A 02

Preparation Batch: BIK0047

Sample Size: 25 mL (wet)

Prepared: 11/03/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	2.04	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Nov-2020 07:36

SO-TC-184B-102820
20J0392-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/28/2020 15:50

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/04/2020 15:00

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20J0392-02 A 03

Preparation Batch: BIK0113

Sample Size: 20.68 g (wet)

Prepared: 11/04/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.09	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Nov-2020 07:36

SO-TC-184C-102820
20J0392-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/28/2020 16:00

Instrument: ICP2 Analyst: SKM

Analyzed: 11/03/2020 17:58

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20J0392-03 A 02

Preparation Batch: BIK0047

Sample Size: 25 mL (wet)

Prepared: 11/03/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	5.22	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Nov-2020 07:36

SO-TC-184C-102820
20J0392-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/28/2020 16:00

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/04/2020 15:00

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20J0392-03 A 03

Preparation Batch: BIK0113

Sample Size: 20.8 g (wet)

Prepared: 11/04/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.81	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Nov-2020 07:36

TCLP Metals and Metallic Compounds - Quality Control

Batch BIK0047 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BIK0047-BLK1)					Prepared: 03-Nov-2020 Analyzed: 03-Nov-2020 17:44				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Nov-2020 07:36

Wet Chemistry - Quality Control

Batch BIK0113 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIK0113-BS1)										
					Prepared: 04-Nov-2020		Analyzed: 04-Nov-2020 15:00			
pH	6.99	0.01	0.01	pH Units	7.00	99.9	99.2-100.8			
Duplicate (BIK0113-DUP1)										
			Source: 20J0392-01		Prepared: 04-Nov-2020		Analyzed: 04-Nov-2020 15:00			
pH	8.64	0.009	0.009	pH Units	8.53	1.28	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Nov-2020 07:36

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Nov-2020 07:36

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

09 November 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20K0043

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2020.11.09
16:20:40 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20K0043	Turn-around Requested: 3 days	Date: 11/03/2020
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 8 Cooler Temps: 27.5



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-185A-110320	11/03/20	11:35	Soil	1	✓	✓							
SO-TC-185B-110320	11/03/20	11:40	Soil	1	✓	✓							
SO-TC-185C-110320	11/03/20	11:45	Soil	1	✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walter</i>		Relinquished by: (Signature)		Received by: (Signature)		
					Printed Name: Kenny King		Printed Name: Jacob Walter		Printed Name:		Printed Name:		
					Company: PERC		Company: ARI		Company:		Company:		
					Date & Time: 11/3/2020 16:52		Date & Time: 11/03/2020 1652		Date & Time:		Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-185A-110320	20K0043-01	Solid	03-Nov-2020 11:35	03-Nov-2020 16:52
SO-TC-185B-110320	20K0043-02	Solid	03-Nov-2020 11:40	03-Nov-2020 16:52
SO-TC-185C-110320	20K0043-03	Solid	03-Nov-2020 11:45	03-Nov-2020 16:52



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:19

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20K0043

Sample receipt

Samples as listed on the preceding page were received 03-Nov-2020 16:52 under ARI work order 20K0043. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): NA
Assigned ARI Job No: 20K0043

Project Name: Sperlan Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA
Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 275
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO 5206

Cooler Accepted by: JSN Date: 11/03/2020 Time: 1652

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI... NA
Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

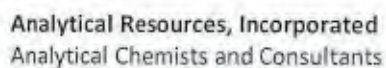
Samples Logged by: SC Date: 11/14/2020 Time: 0927 Labels checked by: SC

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

Completed by: J. B. Date: 11/07/2020 Time: 1652
00070F Cooler Temperature Compliance Form Ver



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:19

SO-TC-185A-110320
20K0043-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/03/2020 11:35

Instrument: ICP2 Analyst: TCH

Analyzed: 11/06/2020 17:53

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0043-01 A 03

Preparation Batch: BIK0174

Sample Size: 25 mL (wet)

Prepared: 11/06/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0614	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.159	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:19

SO-TC-185A-110320
20K0043-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/03/2020 11:35

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/04/2020 15:00

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20K0043-01 A 01

Preparation Batch: BIK0113

Sample Size: 20.35 g (wet)

Prepared: 11/04/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.17	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:19

SO-TC-185B-110320
20K0043-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/03/2020 11:40

Instrument: ICP2 Analyst: TCH

Analyzed: 11/06/2020 17:58

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0043-02 A 03

Preparation Batch: BIK0174

Sample Size: 25 mL (wet)

Prepared: 11/06/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0305	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0714	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:19

SO-TC-185B-110320
20K0043-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/03/2020 11:40

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/04/2020 15:00

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20K0043-02 A 01

Preparation Batch: BIK0113

Sample Size: 20.06 g (wet)

Prepared: 11/04/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.91	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:19

SO-TC-185C-110320
20K0043-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/03/2020 11:45

Instrument: ICP2 Analyst: TCH

Analyzed: 11/06/2020 18:02

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0043-03 A 03

Preparation Batch: BIK0174

Sample Size: 25 mL (wet)

Prepared: 11/06/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0475	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:19

SO-TC-185C-110320
20K0043-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/03/2020 11:45

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/04/2020 15:00

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20K0043-03 A 01

Preparation Batch: BIK0113

Sample Size: 20.22 g (wet)

Prepared: 11/04/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.33	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:19

TCLP Metals and Metallic Compounds - Quality Control

Batch BIK0174 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BIK0174-BLK1)					Prepared: 06-Nov-2020 Analyzed: 06-Nov-2020 17:44				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:19

Wet Chemistry - Quality Control

Batch BIK0113 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIK0113-BS1)					Prepared: 04-Nov-2020 Analyzed: 04-Nov-2020 15:00				
pH	6.99	0.01	0.01	pH Units	7.00	99.9	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:19

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:19

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

09 November 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20K0042

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2020.11.09 16:16:44
-08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2060042		Turn-around Requested: 3 days		Date: 11/03/2020		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)		
ARI Client Company: PERC		Phone: 425-346-0921		Page: of				
Client Contact: Kenny King		No. of Coolers: 8		Cooler Temps: 27.5				
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	pH 9045C			
Sample ID	Date	Time	Matrix	No. Containers				
SO-TC-186A-102820	10/28/20	08:30	Soil	1	✓	✓		
Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walter</i>		Relinquished by: (Signature)		Received by: (Signature)	
	Printed Name: Kenny King		Printed Name: Jacob Walter		Printed Name:		Printed Name:	
	Company: PERC		Company: ARC		Company:		Company:	
	Date & Time: 11/3/2020 16:52		Date & Time: 11/03/2020 1652		Date & Time:		Date & Time:	

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored/frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-186A-102820	20K0042-01	Solid	28-Oct-2020 08:30	03-Nov-2020 16:52



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:13

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20K0042

Sample receipt

One samples as listed on the preceding page were received 03-Nov-2020 16:52 under ARI work order 20K0042. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Sperlan Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 20K0042

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 775

If cooler temperature is out of compliance fill out form D0070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JSN Date: 11/03/2020 Time: 1652

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

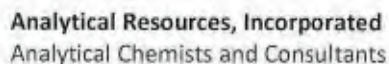
Samples Logged by: SC Date: 11/4/2020 Time: 0912 Labels checked by: SC

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

[illegible]

Completed by: J. Ben
00070F

Date: 11/07/2020

Time: 1652

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:13

SO-TC-186A-102820
20K0042-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 10/28/2020 08:30

Instrument: ICP2 Analyst: TCH

Analyzed: 11/06/2020 17:49

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0042-01 A 03

Preparation Batch: BIK0174

Sample Size: 25 mL (wet)

Prepared: 11/06/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.106	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.100	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:13

SO-TC-186A-102820
20K0042-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/28/2020 08:30

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/04/2020 15:00

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20K0042-01 A 01

Preparation Batch: BIK0113

Sample Size: 20.95 g (wet)

Prepared: 11/04/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.86	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:13

TCLP Metals and Metallic Compounds - Quality Control

Batch BIK0174 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BIK0174-BLK1)					Prepared: 06-Nov-2020 Analyzed: 06-Nov-2020 17:44				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:13

Wet Chemistry - Quality Control

Batch BIK0113 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIK0113-BS1)					Prepared: 04-Nov-2020 Analyzed: 04-Nov-2020 15:00				
pH	6.99	0.01	0.01	pH Units	7.00	99.9	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:13

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2020 16:13

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: 2 data packages for your review and approval

From David Bosch <DBosch@tpchd.org>
Date Tue 11/17/2020 2:31 PM
To Jeff King <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Jeff,

The Tacoma-Pierce County Health Department has reviewed the laboratory data sets dated November 12 and 16, 2020. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

****Please note: As of Nov. 25, my new phone number will be (253) 649-1841****

David Bosch

Environmental Health Specialist III
Environmental Health
(253) 405-8599 c • dbosch@tpchd.org
(253) 798-6498 f • www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: Jeff King <jking@perc-nw.com>
Sent: Tuesday, November 17, 2020 12:03 PM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: 2 data packages for your review and approval

David:

Attached are 2 data packages for your review and approval. The following table lists the data. Each sample represents the concentrations in approximately 23 cy of soil.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	
SO-TC-187A-110420	0.135	0.798	7.55	Asking for approval
SO-TC-187B-110420	0.0752	ND	6.44	Asking for approval
SO-TC-187C-110420	0.0437	0.122	7.59	Asking for approval
SO-TC-188A-110920	0.0911	0.241	9.04	Asking for approval
SO-TC-188B-110920	0.047	ND	9.3	Asking for approval
SO-TC-188C-110920	0.0912	0.276	9.07	Asking for approval

Thank you
Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

12 November 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20K0066

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2020.11.12
16:03:02 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

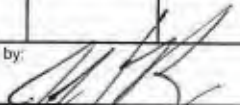
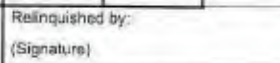
Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments			
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C										
Sample ID	Date	Time	Matrix	No. Containers												
SO-TC-187A-110420	11/04/20	13:35	Soil	1	✓	✓										
SO-TC-187B-110420	11/04/20	13:45	Soil	1	✓	✓										
SO-TC-187C-110420	11/04/20	13:54	Soil	1	✓	✓										
Comments/Special Instructions	Relinquished by: 				Received by: 				Relinquished by: 				Received by: 			
	(Signature)				(Signature)				(Signature)				(Signature)			
	Printed Name: Jacob King				Printed Name: Jacob Walte				Printed Name:				Printed Name:			
	Company: PORC				Company: ANZ				Company:				Company:			
	Date & Time: 11/04/2020 3:12 PM				Date & Time: 11/04/2020 1512				Date & Time:				Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2020 16:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-187A-110420	20K0066-01	Solid	04-Nov-2020 13:35	04-Nov-2020 15:12
SO-TC-187B-110420	20K0066-02	Solid	04-Nov-2020 13:45	04-Nov-2020 15:12
SO-TC-187C-110420	20K0066-03	Solid	04-Nov-2020 13:54	04-Nov-2020 15:12



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2020 16:01

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20K0066

Sample receipt

Samples as listed on the preceding page were received 04-Nov-2020 15:12 under ARI work order 20K0066. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20K0066-01 in batch BIK0259. The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 20K0066

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES (NO)

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1512

21.8

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 2006

Cooler Accepted by: JS

Date: 11/04/20

Time: 1512

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES (NO)

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... (NA) YES NO

Were all VOC vials free of air bubbles? (NA) YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: (NA)

Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: KD Date: 11/4/20 Time: 1522 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: _____

Cooler#: _____ Temperature(°C): 21.8

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received
above 6°C

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: JS Date: 11/04/2020 Time: 1512

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2020 16:01

SO-TC-187A-110420
20K0066-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/04/2020 13:35

Instrument: ICP2 Analyst: TCH

Analyzed: 11/06/2020 18:41

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0066-01 A 02

Preparation Batch: BIK0174

Sample Size: 25 mL (wet)

Prepared: 11/06/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.135	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.798	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2020 16:01

SO-TC-187A-110420
20K0066-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/04/2020 13:35

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 11/11/2020 18:04

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20K0066-01 A

Preparation Batch: BIK0259

Sample Size: 20.25 g (wet)

Prepared: 11/10/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.55	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2020 16:01

SO-TC-187B-110420
20K0066-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/04/2020 13:45

Instrument: ICP2 Analyst: TCH

Analyzed: 11/06/2020 18:45

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0066-02 A 02

Preparation Batch: BIK0174

Sample Size: 25 mL (wet)

Prepared: 11/06/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0752	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2020 16:01

SO-TC-187B-110420
20K0066-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/04/2020 13:45

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 11/11/2020 18:04

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20K0066-02 A

Preparation Batch: BIK0259

Sample Size: 20.27 g (wet)

Prepared: 11/10/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.44	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2020 16:01

SO-TC-187C-110420
20K0066-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/04/2020 13:54

Instrument: ICP2 Analyst: TCH

Analyzed: 11/06/2020 18:50

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0066-03 A 02

Preparation Batch: BIK0174

Sample Size: 25 mL (wet)

Prepared: 11/06/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0437	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.122	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2020 16:01

SO-TC-187C-110420
20K0066-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/04/2020 13:54

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 11/11/2020 18:04

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 20K0066-03 A

Preparation Batch: BIK0259

Sample Size: 20.12 g (wet)

Prepared: 11/10/2020

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.59	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2020 16:01

TCLP Metals and Metallic Compounds - Quality Control

Batch BIK0174 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BIK0174-BLK1)					Prepared: 06-Nov-2020 Analyzed: 06-Nov-2020 17:44				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2020 16:01

Wet Chemistry - Quality Control

Batch BIK0259 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIK0259-BS1)										
						Prepared: 10-Nov-2020 Analyzed: 11-Nov-2020 18:04				
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8			
Duplicate (BIK0259-DUP1)										
		Source: 20K0066-01				Prepared: 10-Nov-2020 Analyzed: 11-Nov-2020 18:04				
pH	7.48	0.01	0.01	pH Units	7.55	0.93	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2020 16:01

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2020 16:01

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

16 November 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20K0158

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2020.11.16 15:11:48
-08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 20K0158		Turn-around Requested: 3 days		Date: 11/09/2020		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)									
ARI Client Company: PERC		Phone: 425-346-0921		Page: of											
Client Contact: Kenny King		No. of Coolers: 0		Cooler Temps: 15.3											
Client Project Name: Superlon Plastics				Analysis Requested								Notes/Comments			
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		pH 9045C									
Sample ID		Date	Time	Matrix	No. Containers										
SO-TC-188A-110920		11/09/20	08:40	Soil	1	✓	✓								
SO-TC-188B-110920		11/09/20	08:50	Soil	1	✓	✓								
SO-TC-188C-110920		11/09/20	09:00	Soil	1	✓	✓								
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Kenny Dang</i>			Relinquished by: (Signature)			Received by: (Signature)				
		Printed Name: <i>Kenny King</i>			Printed Name: <i>Kenny Dang</i>			Printed Name:			Printed Name:				
		Company: <i>PERC</i>			Company: <i>ARI</i>			Company:			Company:				
		Date & Time: <i>11/9/2020 16:30</i>			Date & Time: <i>11/9/2020 1630</i>			Date & Time:			Date & Time:				

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSFP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2020 15:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-188A-110920	20K0158-01	Solid	09-Nov-2020 08:40	09-Nov-2020 16:38
SO-TC-188B-110920	20K0158-02	Solid	09-Nov-2020 08:50	09-Nov-2020 16:38
SO-TC-188C-110920	20K0158-03	Solid	09-Nov-2020 09:00	09-Nov-2020 16:38



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2020 15:04

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20K0158

Sample receipt

Samples as listed on the preceding page were received 09-Nov-2020 16:38 under ARI work order 20K0158. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed for sample 20K0158-01 in batch BIK0410. The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC
COC No(s): _____ (NA)
Assigned ARI Job No: 20K015P

Project Name: Superlon plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES (NO)
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1638

153

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DO05206

Cooler Accepted by: KO Date: 11/9/20 Time: 1638

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES (NO)
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... (NA) YES NO
Were all VOC vials free of air bubbles? (NA) YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: (NA)
Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: SC Date: 11/10/2020 Time: 0810 Labels checked by: SC

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 20K0158

Cooler#: 1 Temperature(°C): 15.3

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: KD

Date: 11/9/2020 Time: 1638

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2020 15:04

SO-TC-188A-110920
20K0158-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/09/2020 08:40

Instrument: ICP2 Analyst: MCB

Analyzed: 11/12/2020 17:36

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0158-01 A 02

Preparation Batch: BIK0319

Sample Size: 25 mL (wet)

Prepared: 11/11/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0911	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.241	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2020 15:04

SO-TC-188A-110920
20K0158-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/09/2020 08:40

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/13/2020 14:00

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20K0158-01 A 03

Preparation Batch: BIK0410

Sample Size: 20.36 g (wet)

Prepared: 11/13/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.04	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2020 15:04

SO-TC-188B-110920
20K0158-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/09/2020 08:50

Instrument: ICP2 Analyst: MCB

Analyzed: 11/12/2020 17:41

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0158-02 A 02

Preparation Batch: BIK0319

Sample Size: 25 mL (wet)

Prepared: 11/11/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0470	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2020 15:04

SO-TC-188B-110920
20K0158-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/09/2020 08:50

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/13/2020 14:00

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20K0158-02 A 03

Preparation Batch: BIK0410

Sample Size: 20.22 g (wet)

Prepared: 11/13/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.30	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2020 15:04

SO-TC-188C-110920
20K0158-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/09/2020 09:00

Instrument: ICP2 Analyst: MCB

Analyzed: 11/12/2020 17:45

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0158-03 A 02

Preparation Batch: BIK0319

Sample Size: 25 mL (wet)

Prepared: 11/11/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0912	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.276	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2020 15:04

SO-TC-188C-110920
20K0158-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/09/2020 09:00

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/13/2020 14:00

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20K0158-03 A 03

Preparation Batch: BIK0410

Sample Size: 21.31 g (wet)

Prepared: 11/13/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	9.07	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2020 15:04

TCLP Metals and Metallic Compounds - Quality Control

Batch BIK0319 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BIK0319-BLK1)					Prepared: 11-Nov-2020 Analyzed: 12-Nov-2020 16:36					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	0.0119	0.0065	0.100	mg/L						J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2020 15:04

Wet Chemistry - Quality Control

Batch BIK0410 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIK0410-BS1)					Prepared: 13-Nov-2020 Analyzed: 13-Nov-2020 14:00					
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BIK0410-DUP1)					Source: 20K0158-01 Prepared: 13-Nov-2020 Analyzed: 13-Nov-2020 14:00					
pH	9.07	0.009	0.009	pH Units	9.04			0.33	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2020 15:04

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2020 15:04

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: One more data package

From David Bosch <DBosch@tpchd.org>
Date Wed 11/18/2020 8:57 AM
To Jeff King <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Good morning Jeff,

The Tacoma-Pierce County Health Department has reviewed the laboratory data sets dated November 18, 2020. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

****Please note: As of Nov. 25, my new phone number will be (253) 649-1841****

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 405-8599 c • dbosch@tpchd.org

(253) 798-6498 f • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: Jeff King <jking@perc-nw.com>
Sent: Wednesday, November 18, 2020 8:43 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: One more data package

David:

This data package just came in and I thought I should get your approval in the unlikely event that we need to dispose the soil before the next set of sample data is complete. The following table lists the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	
SO-TC-189A-111020	0.0519	0.399	9.03	Asking for approval
SO-TC-189B-111020	0.0536	0.901	8.96	Asking for approval
SO-TC-189C-111020	0.825	0.747	8.43	Asking for approval

Thanks

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

18 November 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20K0174

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
Date: 2020.11.18 07:29:51 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20K0174	Turn-around Requested: 3 days	Date: 11/10/2020
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 1
		Cooler Temps: 15-1



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-189A-111020	11/10/20	10:30	Soil	1	✓	✓							
SO-TC-189B-111020	11/10/20	10:40	Soil	1	✓	✓							
SO-TC-189C-111020	11/10/20	10:50	Soil	1	✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>[Signature]</i>		Relinquished by: (Signature)		Received by: (Signature)		
					Printed Name: Kenny King		Printed Name: Kenny Dang		Printed Name:		Printed Name:		
					Company: PERC		Company: ARI		Company:		Company:		
					Date & Time: 11/10/2020 16:50		Date & Time: 11/10/2020 16:50		Date & Time:		Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Nov-2020 07:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-189A-111020	20K0174-01	Solid	10-Nov-2020 10:30	10-Nov-2020 16:50
SO-TC-189B-111020	20K0174-02	Solid	10-Nov-2020 10:40	10-Nov-2020 16:50
SO-TC-189C-111020	20K0174-03	Solid	10-Nov-2020 10:50	10-Nov-2020 16:50



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Nov-2020 07:28

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20K0174

Sample receipt

Samples as listed on the preceding page were received 10-Nov-2020 16:50 under ARI work order 20K0174. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERE
COC No(s): NA
Assigned ARI Job No: 20K0174

Project Name: superlon plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA
Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1650

15-1

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: KD Date: 11/10/20 Time: 1650

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

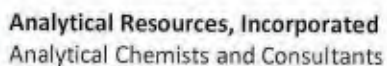
Samples Logged by: KD Date: 11/11/20 Time: 0815 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

Completed by: KD Date: 11/10/20 Time: 1:50
00070F Cooler Temperature Compliance Form



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Nov-2020 07:28

SO-TC-189A-111020
20K0174-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/10/2020 10:30

Instrument: ICP2 Analyst: TCH

Analyzed: 11/16/2020 12:52

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0174-01 A 03

Preparation Batch: BIK0398

Sample Size: 25 mL (wet)

Prepared: 11/13/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0519	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.399	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Nov-2020 07:28

SO-TC-189A-111020
20K0174-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/10/2020 10:30

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/13/2020 14:00

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20K0174-01 A 02

Preparation Batch: BIK0410

Sample Size: 20.38 g (wet)

Prepared: 11/13/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.03	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Nov-2020 07:28

SO-TC-189B-111020
20K0174-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/10/2020 10:40

Instrument: ICP2 Analyst: TCH

Analyzed: 11/16/2020 12:56

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0174-02 A 03

Preparation Batch: BIK0398

Sample Size: 25 mL (wet)

Prepared: 11/13/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0536	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.901	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Nov-2020 07:28

SO-TC-189B-111020
20K0174-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/10/2020 10:40

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/13/2020 14:00

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20K0174-02 A 02

Preparation Batch: BIK0410

Sample Size: 20.91 g (wet)

Prepared: 11/13/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.96	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Nov-2020 07:28

SO-TC-189C-111020
20K0174-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/10/2020 10:50

Instrument: ICP2 Analyst: TCH

Analyzed: 11/16/2020 13:01

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0174-03 A 03

Preparation Batch: BIK0398

Sample Size: 25 mL (wet)

Prepared: 11/13/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.825	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.747	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Nov-2020 07:28

SO-TC-189C-111020
20K0174-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/10/2020 10:50

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/13/2020 14:00

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20K0174-03 A 02

Preparation Batch: BIK0410

Sample Size: 20.14 g (wet)

Prepared: 11/13/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.43	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Nov-2020 07:28

TCLP Metals and Metallic Compounds - Quality Control

Batch BIK0398 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BIK0398-BLK1)					Prepared: 13-Nov-2020 Analyzed: 16-Nov-2020 13:50				
Arsenic	0.108	0.0140	0.250	mg/L					J
Lead	0.0986	0.0065	0.100	mg/L					J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Nov-2020 07:28

Wet Chemistry - Quality Control

Batch BIK0410 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIK0410-BS1)					Prepared: 13-Nov-2020 Analyzed: 13-Nov-2020 14:00				
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Nov-2020 07:28

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Nov-2020 07:28

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: 2 data packages for your review and approval

From David Bosch <DBosch@tpchd.org>
Date Mon 12/7/2020 11:29 AM
To Jeff King <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Jeff,

The Tacoma-Pierce County Health Department has reviewed the two laboratory data sets dated December 4, 2020. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III
Environmental Health
(253) 405-8599 c • dbosch@tpchd.org
(253) 649-1841 o • www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: Jeff King <jking@perc-nw.com>
Sent: Monday, December 7, 2020 9:23 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: 2 data packages for your review and approval

David:

Attached are 2 data packages for your review and approval. Each sample represents approximately 22 cy of soil. The following table lists the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	
SO-TC-190A-111120	0.0668	0.49	9.42	Asking for approval
SO-TC-190B-111120	0.024	2.3	9.36	Asking for approval
SO-TC-190C-111120	0.0382	ND	9.45	Asking for approval
SO-TC-191A-111020	0.0968	0.0621	8.49	Asking for approval
SO-TC-191B-111020	0.0446	ND	8.35	Asking for approval
SO-TC-191C-111020	0.0517	0.0173	8.21	Asking for approval

Thank you
Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

04 December 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20K0200

Associated SDG ID(s)
N/A

Shelly Fishel Digitally signed by Shelly Fishel
Date: 2020.12.04 15:26:55
-08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: <i>206 200</i>	Turn-around Requested: 10 days	Date: 11/11/2020
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: <i>2</i> Cooler Temps: <i>18.2</i>



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-190A-111120	11/11/20	14:30	Soil	1	✓	✓								
SO-TC-190B-111120	11/11/20	14:40	Soil	1	✓	✓								
SO-TC-190C-111120	11/11/20	14:50	Soil	1	✓	✓								
Comments/Special Instructions					Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>			Relinquished by: (Signature)			Received by: (Signature)		
					Printed Name: <i>JEFF KING</i>			Printed Name: <i>Jacob Walter</i>			Printed Name:			Printed Name:
					Company: <i>PERC</i>			Company: <i>ARI</i>			Company:			Company:
					Date & Time: <i>11/11/2020 4:36</i>			Date & Time: <i>11/11/2020 1636</i>			Date & Time:			Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored/frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-190A-111120	20K0200-01	Solid	11-Nov-2020 14:30	11-Nov-2020 16:36
SO-TC-190B-111120	20K0200-02	Solid	11-Nov-2020 14:40	11-Nov-2020 16:36
SO-TC-190C-111120	20K0200-03	Solid	11-Nov-2020 14:50	11-Nov-2020 16:36



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:24

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20K0200

Sample receipt

Samples as listed on the preceding page were received 11-Nov-2020 16:36 under ARI work order 20K0200. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 20100200

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1636

18.2

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5006

Cooler Accepted by: JS Date: 11/11/2020 Time: 1636

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: SC Date: 11/12/2020 Time: 0916 Labels checked by: SC

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

ARI Work Order: 240200

Cooler#: _____ Temperature(°C): 18.2

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: SS Date: 11/11/2020 Time: 1636

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:24

SO-TC-190A-111120
20K0200-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/11/2020 14:30

Instrument: ICP2 Analyst: SKM

Analyzed: 12/03/2020 18:36

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0200-01 A 03

Preparation Batch: BIK0507

Sample Size: 25 mL (wet)

Prepared: 11/17/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	0.0668	mg/L	J
Lead	7439-92-1	5	0.0120	0.100	0.490	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:24

SO-TC-190A-111120
20K0200-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/11/2020 14:30

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/13/2020 14:00

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20K0200-01 A 01

Preparation Batch: BIK0410

Sample Size: 21.09 g (wet)

Prepared: 11/13/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	9.42	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:24

SO-TC-190B-111120
20K0200-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/11/2020 14:40

Instrument: ICP2 Analyst: SKM

Analyzed: 12/03/2020 18:41

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0200-02 A 03

Preparation Batch: BIK0507

Sample Size: 25 mL (wet)

Prepared: 11/17/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	0.0240	mg/L	J
Lead	7439-92-1	5	0.0120	0.100	2.30	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:24

SO-TC-190B-111120
20K0200-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/11/2020 14:40

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/13/2020 14:00

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20K0200-02 A 01

Preparation Batch: BIK0410

Sample Size: 21.73 g (wet)

Prepared: 11/13/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.009	0.009	9.36	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:24

SO-TC-190C-111120
20K0200-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/11/2020 14:50

Instrument: ICP2 Analyst: SKM

Analyzed: 12/03/2020 18:45

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0200-03 A 03

Preparation Batch: BIK0507

Sample Size: 25 mL (wet)

Prepared: 11/17/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	0.0382	mg/L	J
Lead	7439-92-1	5	0.0120	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:24

SO-TC-190C-111120
20K0200-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/11/2020 14:50

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/13/2020 14:00

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20K0200-03 A 01

Preparation Batch: BIK0410

Sample Size: 20.15 g (wet)

Prepared: 11/13/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.45	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:24

TCLP Metals and Metallic Compounds - Quality Control

Batch BIK0507 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BIK0507-BLK1)					Prepared: 17-Nov-2020 Analyzed: 18-Nov-2020 15:59				
Arsenic	0.0631	0.0230	0.250	mg/L					J
Lead	0.0205	0.0120	0.100	mg/L					J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:24

Wet Chemistry - Quality Control

Batch BIK0410 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIK0410-BS1)									
Prepared: 13-Nov-2020 Analyzed: 13-Nov-2020 14:00									
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:24

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:24

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

04 December 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20K0199

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2020.12.04
15:23:15 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20K0199	Turn-around Requested: 10 days	Date: 11/11/2020
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: Cooler Temps: 18.2



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-191A-111020	11/10/20	15:15	Soil	1	✓	✓								
SO-TC-191B-111020	11/10/20	15:30	Soil	1	✓	✓								
SO-TC-191C-111120	11/11/20	13:52	Soil	1	✓	✓								
Comments/Special Instructions	Relinquished by: (Signature) <i>[Signature]</i> Printed Name: JEFF KING Company: PERC Date & Time: 11/10/2020 4:36				Received by: (Signature) <i>[Signature]</i> Printed Name: Jacob L. Latta Company: ARIZ Date & Time: 11/11/2020 1636				Relinquished by: (Signature) Printed Name: Company: Date & Time:				Received by: (Signature) Printed Name: Company: Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-191A-111020	20K0199-01	Solid	10-Nov-2020 15:15	11-Nov-2020 16:36
SO-TC-191B-111020	20K0199-02	Solid	10-Nov-2020 15:30	11-Nov-2020 16:36
SO-TC-191C-111020	20K0199-03	Solid	11-Nov-2020 13:52	11-Nov-2020 16:36



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:20

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20K0199

Sample receipt

Samples as listed on the preceding page were received 11-Nov-2020 16:36 under ARI work order 20K0199. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

COC No(s): _____ (NA)

Assigned ARI Job No: 20K0199

Project Name: Superior Plastics

Delivered by: Fed-Ex UPS Courier and Delivered Other: _____

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES (NO)
Were custody papers included with the cooler? YES (NO)
Were custody papers properly filled out (ink, signed, etc.) YES (NO)

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 1636

18.2

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JS Date: 11/11/2020 Time: 1636

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES (NO)
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES (NO)
Were all bottle labels complete and legible? YES (NO)
Did the number of containers listed on COC match with the number of containers received? YES (NO)
Did all bottle labels and tags agree with custody papers? YES (NO)
Were all bottles used correct for the requested analyses? YES (NO)
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES (NO)
Were all VOC vials free of air bubbles? NA YES (NO)
Was sufficient amount of sample sent in each bottle? YES (NO)
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

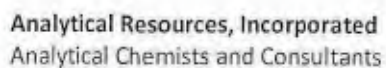
Samples Logged by: SC Date: 11/12/2020 Time: 0854 Labels checked by: SC

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: SB Date: 11/11/2020 Time: 1636

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:20

SO-TC-191A-111020
20K0199-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/10/2020 15:15

Instrument: ICP2 Analyst: SKM

Analyzed: 12/03/2020 18:22

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0199-01 A 03

Preparation Batch: BIK0507

Sample Size: 25 mL (wet)

Prepared: 11/17/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	0.0968	mg/L	J
Lead	7439-92-1	5	0.0120	0.100	0.0621	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:20

SO-TC-191A-111020
20K0199-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/10/2020 15:15

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/13/2020 14:00

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20K0199-01 A 01

Preparation Batch: BIK0410

Sample Size: 20.16 g (wet)

Prepared: 11/13/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.49	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:20

SO-TC-191B-111020
20K0199-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/10/2020 15:30

Instrument: ICP2 Analyst: SKM

Analyzed: 12/03/2020 18:27

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0199-02 A 03

Preparation Batch: BIK0507

Sample Size: 25 mL (wet)

Prepared: 11/17/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	0.0446	mg/L	J
Lead	7439-92-1	5	0.0120	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:20

SO-TC-191B-111020
20K0199-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/10/2020 15:30

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/13/2020 14:00

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20K0199-02 A 01

Preparation Batch: BIK0410

Sample Size: 20.15 g (wet)

Prepared: 11/13/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.35	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:20

SO-TC-191C-111020
20K0199-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/11/2020 13:52

Instrument: ICP2 Analyst: SKM

Analyzed: 12/03/2020 18:32

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0199-03 A 03

Preparation Batch: BIK0507

Sample Size: 25 mL (wet)

Prepared: 11/17/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	0.0517	mg/L	J
Lead	7439-92-1	5	0.0120	0.100	0.0173	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:20

SO-TC-191C-111020
20K0199-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/11/2020 13:52

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 11/13/2020 14:00

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20K0199-03 A 01

Preparation Batch: BIK0410

Sample Size: 20.16 g (wet)

Prepared: 11/13/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.21	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:20

TCLP Metals and Metallic Compounds - Quality Control

Batch BIK0507 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BIK0507-BLK1)					Prepared: 17-Nov-2020 Analyzed: 18-Nov-2020 15:59				
Arsenic	0.0631	0.0230	0.250	mg/L					J
Lead	0.0205	0.0120	0.100	mg/L					J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:20

Wet Chemistry - Quality Control

Batch BIK0410 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIK0410-BS1)					Prepared: 13-Nov-2020 Analyzed: 13-Nov-2020 14:00				
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:20

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Dec-2020 15:20

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Outlook

HD approval RE: 4 data packages

From David Bosch <DBosch@tpchd.org>
Date Wed 12/16/2020 8:01 AM
To Jeff King <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Good morning Jeff,

The Tacoma-Pierce County Health Department has reviewed the four laboratory data sets dated December 7 (2), 9, and 15, 2020. As you noted, batch SO-TC-194B-120220 will be reprocessed and is not part of this approval. The other soils associated with the waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 405-8599 c • dbosch@tpchd.org

(253) 649-1841 o • www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: Jeff King <jking@perc-nw.com>
Sent: Wednesday, December 16, 2020 7:41 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: FW: 3 data packages for your review and approval

David:

There is a mistake. There is actually four data packages. The fourth is attached.

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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From: Jeff King**Sent:** Wednesday, December 16, 2020 7:33 AM**To:** David Bosch <DBosch@tpchd.org>**Subject:** 3 data packages for your review and approval

David:

Attached are 3 data packages for your review and approval. We asking for approval for all samples (each representing approximately 23 CY of soil) except for the soil associated with sample SO-TC-194B-120220. The soil, and five CYs of soil that was in contact with the SO-TC-194B-120220 soil, has been retreated. This is the last request we will be making this year and will not be remediating any more soil until March of 2021.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	
SO-TC-192A-111820	ND	ND	8.64	Asking for approval
SO-TC-192B-111820	0.029	ND	9.11	Asking for approval
SO-TC-192C-111820	ND	ND	9.14	Asking for approval
SO-TC-193A-113020	ND	0.431	7.44	Asking for approval
SO-TC-193B-113020	0.0389	2.89	7.76	Asking for approval
SO-TC-193C-113020	ND	1.91	7.36	Asking for approval
SO-TC-194A-120220	ND	0.085	8.04	Asking for approval
SO-TC-194B-120220	0.0652	6.05	8.61	NOT ASKING FOR APPROVAL – SOIL WAS RETREATED
SO-TC-194C-120220	ND	1.74	8.82	Asking for approval
SO-TC-195A-121020	ND	1.27	8.5	Asking for approval
SO-TC-195B-121020	ND	1.79	8.67	Asking for approval
SO-TC-195C-121020	ND	0.49	9.13	Asking for approval

Thank you very much for the support this year. It has been a pleasure working with you.

Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President
Pacific Environmental & Redevelopment Corporation (PERC)
8424 E Meadow Lake Drive
Snohomish, WA 98290
United States of America
425-238-2212
jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

07 December 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20K0300

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2020.12.07 16:56:20
-08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 20K0300	Turn-around Requested: 10 days	Date: 11/18/2020
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 0 Cooler Temps: 17.3



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-192A-111820	11/18/20	10:10	Soil	1	✓	✓							
SO-TC-192B-111820	11/18/20	10:20	Soil	1	✓	✓							
SO-TC-192C-111820	11/18/20	10:30	Soil	1	✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Relinquished by: (Signature)			Received by: (Signature)			
					Printed Name: JEFF KING	Printed Name: Kenny Dang	Printed Name:			Printed Name:			
					Company: PERC	Company: ARI	Company:			Company:			
					Date & Time: 11/18/2020 12:02	Date & Time: 11/18/20 1202	Date & Time:			Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-192A-111820	20K0300-01	Solid	18-Nov-2020 10:10	18-Nov-2020 12:02
SO-TC-192B-111820	20K0300-02	Solid	18-Nov-2020 10:20	18-Nov-2020 12:02
SO-TC-192C-111820	20K0300-03	Solid	18-Nov-2020 10:30	18-Nov-2020 12:02



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:55

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20K0300

Sample receipt

Samples as listed on the preceding page were received 18-Nov-2020 12:02 under ARI work order 20K0300. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20K0300-01 in batch BIL0017. The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 20K0300-01 in batch BIK0738. The duplicate (DUP) relative percent difference (RPD) and the matrix spike (MS) percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: PERC
COC No(s): _____ (NA)
Assigned ARI Job No: 20K0300

Project Name: Superlon Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other:
Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES (NO)
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1202 17.3
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO 5206

Cooler Accepted by: KD Date: 11/18/20 Time: 1202

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: Q
Was sufficient ice used (if appropriate)? NA YES (NO)
How were bottles sealed in plastic bags? Individually Grouped (No)
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

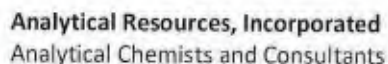
Samples Logged by: KD Date: 11/18/20 Time: 1211 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: KD Date: 11/18/20 Time: 1202

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:55

SO-TC-192A-111820
20K0300-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/18/2020 10:10

Instrument: ICP2 Analyst: TCH

Analyzed: 12/04/2020 21:27

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0300-01 A 02

Preparation Batch: BIK0738

Sample Size: 25 mL (wet)

Prepared: 11/24/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0120	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:55

SO-TC-192A-111820
20K0300-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/18/2020 10:10

Instrument: Accumet AB150 Analyst: BF

Analyzed: 12/01/2020 14:42

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20K0300-01 A

Preparation Batch: BIL0017

Sample Size: 20.52 g (wet)

Prepared: 12/01/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.64	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:55

SO-TC-192B-111820
20K0300-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/18/2020 10:20

Instrument: ICP2 Analyst: TCH

Analyzed: 12/04/2020 20:27

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0300-02 A 02

Preparation Batch: BIK0738

Sample Size: 25 mL (wet)

Prepared: 11/24/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	0.0290	mg/L	J
Lead	7439-92-1	5	0.0120	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:55

SO-TC-192B-111820
20K0300-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/18/2020 10:20

Instrument: Accumet AB150 Analyst: BF

Analyzed: 12/01/2020 14:42

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20K0300-02 A

Preparation Batch: BIL0017

Sample Size: 20 g (wet)

Prepared: 12/01/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.11	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:55

SO-TC-192C-111820
20K0300-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/18/2020 10:30

Instrument: ICP2 Analyst: TCH

Analyzed: 12/04/2020 20:31

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20K0300-03 A 02

Preparation Batch: BIK0738

Sample Size: 25 mL (wet)

Prepared: 11/24/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0120	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:55

SO-TC-192C-111820
20K0300-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/18/2020 10:30

Instrument: Accumet AB150 Analyst: BF

Analyzed: 12/01/2020 14:42

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20K0300-03 A

Preparation Batch: BIL0017

Sample Size: 20.18 g (wet)

Prepared: 12/01/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.14	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:55

TCLP Metals and Metallic Compounds - Quality Control

Batch BIK0738 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIK0738-BLK1)						Prepared: 24-Nov-2020 Analyzed: 03-Dec-2020 16:52					
Arsenic	ND	0.0230	0.250	mg/L							U
Blank (BIK0738-BLK2)						Prepared: 24-Nov-2020 Analyzed: 04-Dec-2020 15:43					
Lead	ND	0.0120	0.100	mg/L							U
Duplicate (BIK0738-DUP1)						Source: 20K0300-01 Prepared: 24-Nov-2020 Analyzed: 04-Dec-2020 21:22					
Arsenic	ND	0.0230	0.250	mg/L		ND					U
Lead	ND	0.0120	0.100	mg/L		ND					U
Matrix Spike (BIK0738-MS1)						Source: 20K0300-01 Prepared: 24-Nov-2020 Analyzed: 04-Dec-2020 21:31					
Arsenic	4.15	0.0230	0.250	mg/L	4.00	ND	104	75-125			
Lead	3.95	0.0120	0.100	mg/L	4.00	ND	98.8	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:55

Wet Chemistry - Quality Control

Batch BIL0017 - EPA 9045D

Instrument: Accumet AB150 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIL0017-BS1)					Prepared: 01-Dec-2020 Analyzed: 01-Dec-2020 14:42					
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BIL0017-DUP1)					Source: 20K0300-01 Prepared: 01-Dec-2020 Analyzed: 01-Dec-2020 14:42					
pH	9.15	0.01	0.01	pH Units	8.64			5.73	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:55

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:55

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

07 December 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20L0001

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2020.12.07
16:34:39 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2020001	Turn-around Requested: 3 days
---------------------------------	-------------------------------

ARI Client Company: PERC Phone: 425-346-0921

Client Contact: **Kenny King**

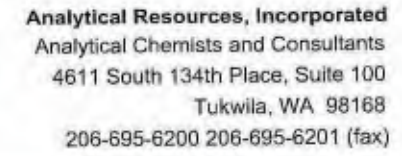
Client Project Name: **Superlon Plastics**

Client Project #:	SLON	Samplers:	King

Date: 11/30/2020

Page: of

No. of Coolers:	4	Cooler Temps:	26.3
Analysis Requested			



Client Project Name: Superlon Plastics					Analysis Requested								
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-193A-113020	11/30/20	14:50	Soil	1	✓	✓							
SO-TC-193B-113020	11/30/20	15:00	Soil	1	✓	✓							
SO-TC-193C-113020	11/30/20	15:10	Soil	1	✓	✓							
Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Jacob Walke</i>			Relinquished by: (Signature)			Received by: (Signature)			
	Printed Name: <i>Kenny King</i>			Printed Name: <i>Jacob Walke</i>			Printed Name:			Printed Name:			
	Company: <i>PERC</i>			Company: <i>ARZ</i>			Company:			Company:			
	Date & Time: <i>11/30/2020 16:32</i>			Date & Time: <i>11/30/2020 1632</i>			Date & Time:			Date & Time:			

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-193A-113020	20L0001-01	Solid	30-Nov-2020 14:50	30-Nov-2020 16:32
SO-TC-193B-113020	20L0001-02	Solid	30-Nov-2020 15:00	30-Nov-2020 16:32
SO-TC-193C-113020	20L0001-03	Solid	30-Nov-2020 15:10	30-Nov-2020 16:32



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:32

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20L0001

Sample receipt

Samples as listed on the preceding page were received 30-Nov-2020 16:32 under ARI work order 20L0001. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 20L0001

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1632

26.3

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5006

Cooler Accepted by: JAN Date: 11/30/2020 Time: 1632

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: SC Date: 12/1/2020 Time: 0816 Labels checked by: SC

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 20L0001

Cooler#: _____ Temperature(°C): 26.3

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: JSW Date: 11/30/2020 Time: 1632

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:32

SO-TC-193A-113020
20L0001-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/30/2020 14:50

Instrument: ICP2 Analyst: TCH

Analyzed: 12/04/2020 16:47

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20L0001-01 A 02

Preparation Batch: BIL0088

Sample Size: 25 mL (wet)

Prepared: 12/03/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0120	0.100	0.431	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:32

SO-TC-193A-113020
20L0001-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/30/2020 14:50

Instrument: Accumet AB150 Analyst: BF

Analyzed: 12/01/2020 14:42

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20L0001-01 A

Preparation Batch: BIL0017

Sample Size: 20.03 g (wet)

Prepared: 12/01/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.44	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:32

SO-TC-193B-113020
20L0001-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/30/2020 15:00

Instrument: ICP2 Analyst: TCH

Analyzed: 12/04/2020 16:51

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20L0001-02 A 02

Preparation Batch: BIL0088

Sample Size: 25 mL (wet)

Prepared: 12/03/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	0.0389	mg/L	J
Lead	7439-92-1	5	0.0120	0.100	2.89	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:32

SO-TC-193B-113020
20L0001-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/30/2020 15:00

Instrument: Accumet AB150 Analyst: BF

Analyzed: 12/01/2020 14:42

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20L0001-02 A

Preparation Batch: BIL0017

Sample Size: 20.61 g (wet)

Prepared: 12/01/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.76	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:32

SO-TC-193C-113020
20L0001-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 11/30/2020 15:10

Instrument: ICP2 Analyst: TCH

Analyzed: 12/04/2020 16:56

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20L0001-03 A 02

Preparation Batch: BIL0088

Sample Size: 25 mL (wet)

Prepared: 12/03/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0120	0.100	1.91	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:32

SO-TC-193C-113020
20L0001-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/30/2020 15:10

Instrument: Accumet AB150 Analyst: BF

Analyzed: 12/01/2020 14:42

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20L0001-03 A

Preparation Batch: BIL0017

Sample Size: 20.02 g (wet)

Prepared: 12/01/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.36	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:32

TCLP Metals and Metallic Compounds - Quality Control

Batch BIL0088 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BIL0088-BLK1)					Prepared: 03-Dec-2020 Analyzed: 04-Dec-2020 16:42				
Arsenic	0.0245	0.0230	0.250	mg/L					J
Lead	ND	0.0120	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:32

Wet Chemistry - Quality Control

Batch BIL0017 - EPA 9045D

Instrument: Accumet AB150 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BIL0017-BS1)					Prepared: 01-Dec-2020 Analyzed: 01-Dec-2020 14:42				
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:32

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Dec-2020 16:32

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

09 December 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20L0037

Associated SDG ID(s)
N/A

Digitally signed by
Shelly Fishel
Date: 2020.12.09
17:29:42 -08'00'

Shelly Fishel

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2060037		Turn-around Requested: 3 days		Date: 12/2/2020		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC		Phone: 425-346-0921		Page: of							
Client Contact: Kenny King		No. of Coolers: 0		Cooler Temps: 16.8							
Client Project Name: Superlon Plastics				Analysis Requested						Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		pH 9045C					
Sample ID	Date	Time	Matrix	No. Containers							
SO-TC-194A-120220	12/02/20	15:25	Soil	1	✓	✓					
SO-TC-194B-120220	12/02/20	15:35	Soil	1	✓	✓					
SO-TC-194C-120220	12/02/20	15:45	Soil	1	✓	✓					
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Samuel Walter</i>		Relinquished by: (Signature)		Received by: (Signature)	
				Printed Name: Kenny King		Printed Name: Samuel Walter		Printed Name:		Printed Name:	
				Company: PERC		Company: ARZ		Company:		Company:	
				Date & Time: 12/2/2020 16:46		Date & Time: 12/02/2020 1646		Date & Time:		Date & Time:	

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Dec-2020 17:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-194A-120220	20L0037-01	Solid	02-Dec-2020 15:25	02-Dec-2020 16:46
SO-TC-194B-120220	20L0037-02	Solid	02-Dec-2020 15:35	02-Dec-2020 16:46
SO-TC-194C-120220	20L0037-03	Solid	02-Dec-2020 15:45	02-Dec-2020 16:46



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Dec-2020 17:16

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20L0037

Sample receipt

Samples as listed on the preceding page were received 02-Dec-2020 16:46 under ARI work order 20L0037. For details regarding sample receipt, please refer to the Cooler Receipt Form.

pH - EPA Method 9045D

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20L0037-01 in batch BIL0164. The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 20L0037-01 in batch BIL0122. The duplicate (DUP) relative percent difference (RPD) and the matrix spike (MS) percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: PERC
COC No(s): NA
Assigned ARI Job No: 20L0037

Project Name: Superior Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 1646 168
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO 5206
Cooler Accepted by: JS Date: 12/02/20 Time: 1646

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

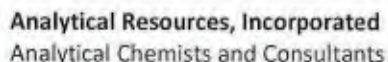
Samples Logged by: KO Date: 12/13/20 Time: 0830 Labels checked by: KO

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: KD for JBLW Date: 12/2/20 Time: 1646
00070F Cooler Temperature Compliance Form Ver



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Dec-2020 17:16

SO-TC-194A-120220
20L0037-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 12/02/2020 15:25

Instrument: ICP2 Analyst: TCH

Analyzed: 12/07/2020 11:56

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20L0037-01 A 02

Preparation Batch: BIL0122

Sample Size: 25 mL (wet)

Prepared: 12/04/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0120	0.100	0.0850	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Dec-2020 17:16

SO-TC-194A-120220
20L0037-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/02/2020 15:25

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 12/07/2020 13:09

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20L0037-01 A

Preparation Batch: BIL0164

Sample Size: 20.57 g (wet)

Prepared: 12/07/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.04	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Dec-2020 17:16

SO-TC-194B-120220
20L0037-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 12/02/2020 15:35

Instrument: ICP2 Analyst: TCH

Analyzed: 12/07/2020 11:19

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20L0037-02 A 02

Preparation Batch: BIL0122

Sample Size: 25 mL (wet)

Prepared: 12/04/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	0.0652	mg/L	J
Lead	7439-92-1	5	0.0120	0.100	6.05	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Dec-2020 17:16

SO-TC-194B-120220
20L0037-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/02/2020 15:35

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 12/07/2020 13:09

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20L0037-02 A

Preparation Batch: BIL0164

Sample Size: 20.7 g (wet)

Prepared: 12/07/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.61	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Dec-2020 17:16

SO-TC-194C-120220
20L0037-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 12/02/2020 15:45

Instrument: ICP2 Analyst: TCH

Analyzed: 12/07/2020 11:24

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20L0037-03 A 02

Preparation Batch: BIL0122

Sample Size: 25 mL (wet)

Prepared: 12/04/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0120	0.100	1.74	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Dec-2020 17:16

SO-TC-194C-120220
20L0037-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/02/2020 15:45

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 12/07/2020 13:09

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20L0037-03 A

Preparation Batch: BIL0164

Sample Size: 20.85 g (wet)

Prepared: 12/07/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.82	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Dec-2020 17:16

TCLP Metals and Metallic Compounds - Quality Control

Batch BIL0122 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: TCH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIL0122-BLK1)						Prepared: 04-Dec-2020 Analyzed: 07-Dec-2020 11:15					
Arsenic	ND	0.0230	0.250	mg/L							U
Lead	0.0134	0.0120	0.100	mg/L							J
Duplicate (BIL0122-DUP1)						Source: 20L0037-01 Prepared: 04-Dec-2020 Analyzed: 07-Dec-2020 11:51					
Arsenic	ND	0.0230	0.250	mg/L		ND					U
Lead	0.0870	0.0120	0.100	mg/L		0.0850			2.43	20	J
Matrix Spike (BIL0122-MS1)						Source: 20L0037-01 Prepared: 04-Dec-2020 Analyzed: 07-Dec-2020 12:00					
Arsenic	4.00	0.0230	0.250	mg/L	4.00	ND	100	75-125			
Lead	3.87	0.0120	0.100	mg/L	4.00	0.0850	94.7	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Dec-2020 17:16

Wet Chemistry - Quality Control

Batch BIL0164 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIL0164-BS1)										
					Prepared: 07-Dec-2020 Analyzed: 07-Dec-2020 13:09					
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BIL0164-DUP1)										
					Source: 20L0037-01 Prepared: 07-Dec-2020 Analyzed: 07-Dec-2020 13:09					
pH	8.11	0.01	0.01	pH Units	8.04			0.87	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Dec-2020 17:16

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Dec-2020 17:16

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

15 December 2020

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20L0191

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2020.12.15
15:57:35 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2020191	Turn-around Requested: 3 day
ARI Client Company: PERC	Phone: 4253460921
Client Contact: Kenny King	

Page: 1 of 1

No. of Coolers:	1	Cooler Temps:	15-6
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Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: **Superlon Plastics**

Client Project #: SLON	Samplers: King
-------------------------------	-----------------------

Analysis Requested

Notes/Comments

TCLP - As

TCLP - Pb

H₂O

Sample ID	Date	Time	Matrix	No. Containers
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SO-TC-195A-121020	12/10/20	12:01	Soil	1	✓	✓	✓
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SO-TC-195B-121020	12/10/20	12:09	Soil	1	✓	✓	✓
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SO-TC-195C-121020	12/10/20	12:15	Soil	1	✓	✓	✓
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Comments/Special Instructions

Relinquished by:
(Signature) _____

Printed Name

Company:

Date & Time:

Received by:
(Signature)

Printed Name:

Company:

Date & Time:

Relinquished by:
(Signature)

Printed Name:

Company:

Date & Time:

Received by:	
(Signature)	

Printed Name: _____

Company:	
----------	--

Date & Time:

Date & Time: 12/10/2020 2:43P	Date & Time: 12/10/20 1443
----------------------------------	-------------------------------

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Dec-2020 15:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-195A-121020	20L0191-01	Solid	10-Dec-2020 12:01	10-Dec-2020 14:43
SO-TC-195B-121020	20L0191-02	Solid	10-Dec-2020 12:09	10-Dec-2020 14:43
SO-TC-195C-121020	20L0191-03	Solid	10-Dec-2020 12:15	10-Dec-2020 14:43



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Dec-2020 15:53

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 20L0191

Sample receipt

Samples as listed on the preceding page were received 10-Dec-2020 14:43 under ARI work order 20L0191. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 20L0191-01 in batch BIL0315. The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 20L0191-01 in batch BIL0385. The duplicate (DUP) relative percent difference (RPD) and the matrix spike (MS) percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: PERC Project Name: superlon plastics
COC No(s): _____ (NA) Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Assigned ARI Job No: 20L0191 Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES ☒ NO ☒
Were custody papers included with the cooler? YES ☒ NO ☒
Were custody papers properly filled out (ink, signed, etc.) YES ☒ NO ☒
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1443 15.6
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO 5206

Cooler Accepted by: KD Date: 12/10/20 Time: 1443

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES ☒ NO ☒
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs ☒ Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES ☒ NO ☒
How were bottles sealed in plastic bags? Individually ☒ Grouped ☒ Not ☒
Did all bottles arrive in good condition (unbroken)? YES ☒ NO ☒
Were all bottle labels complete and legible? YES ☒ NO ☒
Did the number of containers listed on COC match with the number of containers received? YES ☒ NO ☒
Did all bottle labels and tags agree with custody papers? YES ☒ NO ☒
Were all bottles used correct for the requested analyses? YES ☒ NO ☒
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... (NA) YES ☒ NO ☒
Were all VOC vials free of air bubbles? (NA) YES ☒ NO ☒
Was sufficient amount of sample sent in each bottle? YES ☒ NO ☒
Date VOC Trip Blank was made at ARI: (NA) _____
Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: 1453 Split by: _____

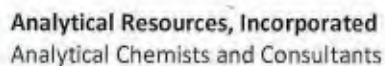
Samples Logged by: KD Date: 12/10/20 Time: 1443 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

00070F



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Dec-2020 15:53

SO-TC-195A-121020
20L0191-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 12/10/2020 12:01

Instrument: ICP2 Analyst: SKM

Analyzed: 12/15/2020 14:32

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20L0191-01 A 02

Preparation Batch: BIL0385

Sample Size: 25 mL (wet)

Prepared: 12/15/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0120	0.100	1.27	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Dec-2020 15:53

SO-TC-195A-121020
20L0191-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/10/2020 12:01

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 12/11/2020 13:01

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20L0191-01 A

Preparation Batch: BIL0315

Sample Size: 20.5437 g (wet)

Prepared: 12/11/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.50	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Dec-2020 15:53

SO-TC-195B-121020
20L0191-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 12/10/2020 12:09

Instrument: ICP2 Analyst: SKM

Analyzed: 12/15/2020 14:13

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20L0191-02 A 02

Preparation Batch: BIL0385

Sample Size: 25 mL (wet)

Prepared: 12/15/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0120	0.100	1.79	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Dec-2020 15:53

SO-TC-195B-121020
20L0191-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/10/2020 12:09

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 12/11/2020 13:01

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20L0191-02 A

Preparation Batch: BIL0315

Sample Size: 21.0339 g (wet)

Prepared: 12/11/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.67	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Dec-2020 15:53

SO-TC-195C-121020
20L0191-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 12/10/2020 12:15

Instrument: ICP2 Analyst: SKM

Analyzed: 12/15/2020 14:18

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 20L0191-03 A 02

Preparation Batch: BIL0385

Sample Size: 25 mL (wet)

Prepared: 12/15/2020

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0120	0.100	0.490	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Dec-2020 15:53

SO-TC-195C-121020
20L0191-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/10/2020 12:15

Instrument: Accumet AB150 Analyst: WCW

Analyzed: 12/11/2020 13:01

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 20L0191-03 A

Preparation Batch: BIL0315

Sample Size: 20.2225 g (wet)

Prepared: 12/11/2020

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.13	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Dec-2020 15:53

TCLP Metals and Metallic Compounds - Quality Control

Batch BIL0385 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIL0385-BLK1)						Prepared: 15-Dec-2020 Analyzed: 15-Dec-2020 13:55					
Arsenic	ND	0.0230	0.250	mg/L							U
Lead	ND	0.0120	0.100	mg/L							U
Duplicate (BIL0385-DUP1)						Source: 20L0191-01 Prepared: 15-Dec-2020 Analyzed: 15-Dec-2020 14:27					
Arsenic	ND	0.0230	0.250	mg/L		ND					U
Lead	1.24	0.0120	0.100	mg/L		1.27			2.54	20	
Matrix Spike (BIL0385-MS1)						Source: 20L0191-01 Prepared: 15-Dec-2020 Analyzed: 15-Dec-2020 14:36					
Arsenic	4.01	0.0230	0.250	mg/L	4.00	ND	100	75-125			
Lead	5.00	0.0120	0.100	mg/L	4.00	1.27	93.2	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Dec-2020 15:53

Wet Chemistry - Quality Control

Batch BIL0315 - EPA 9045D

Instrument: Accumet AB150 Analyst: WCW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BIL0315-BS1)										
					Prepared: 11-Dec-2020 Analyzed: 11-Dec-2020 13:01					
pH	6.99	0.01	0.01	pH Units	7.00	99.9	99.2-100.8			
Duplicate (BIL0315-DUP1)										
					Source: 20L0191-01 Prepared: 11-Dec-2020 Analyzed: 11-Dec-2020 13:01					
pH	8.59	0.01	0.01	pH Units	8.50			1.05	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Dec-2020 15:53

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Dec-2020 15:53

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: PERMIT RENEWEL AND THE START OF HAULING OF WASTE TO LRI

From David Bosch <DBosch@tpchd.org>
Date Tue 4/6/2021 8:18 AM
To Jeff King <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Good morning Jeff,

I will forward the invoice for the WDA renewal once our office prepares it.

The Tacoma-Pierce County Health Department has reviewed the two laboratory data sets dated March 26 and March 29, 2021. The soils associated with the waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 405-8599 c • dbosch@tpchd.org

(253) 649-1841 o • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: Jeff King <jking@perc-nw.com>
Sent: Monday, April 5, 2021 9:15 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: PERMIT RENEWEL AND THE START OF HAULING OF WASTE TO LRI

David:

Good morning. We are back to work for another field season and plan to start hauling waste from the Superlon Site again starting Thursday.

I noticed that we will need another annual permit starting April 11th. I have attached the application for this year.

Lastly, we have three sets of data for your approval (also attached). The following data summarizes the results.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	
SO-TC-196A-031721	0.242	0.238	6.12	Asking for approval
SO-TC-196B-031721	0.0883	0.131	6.28	Asking for approval
SO-TC-196C-032221	0.0478	0.139	6.34	Asking for approval

Thank you
Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

26 March 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21C0308

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2021.03.26
16:27:39 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2160308		Turn-around Requested: 3 days		Date: 3/22/2021		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of					
Client Contact: Kenny King		No. of Coolers: 0		Cooler Temps: 22.2					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		pH 9045C			
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-196A-031721	03/17/21	15:53	Soil	1	✓	✓			
SO-TC-196B-031721	03/17/21	15:53	Soil	1	✓	✓			
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i> Printed Name: Kenny King Company: PERC Date & Time: 3/22/2021 16:43		Received by: (Signature) <i>Jacob Latta</i> Printed Name: Jacob Latta Company: ARI Date & Time: 03/22/2021 1643		Relinquished by: (Signature) _____ Printed Name: _____ Company: _____ Date & Time: _____	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Mar-2021 16:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-196A-031721	21C0308-01	Solid	17-Mar-2021 15:53	22-Mar-2021 16:43
SO-TC-196B-031721	21C0308-02	Solid	17-Mar-2021 15:53	22-Mar-2021 16:43



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Mar-2021 16:19

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21C0308

Sample receipt

Samples as listed on the preceding page were received 22-Mar-2021 16:43 under ARI work order 21C0308. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERL

Project Name: Superior Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 2110308

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1643

22.2

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JS Date: 03/22/2001 Time: 1643

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JS Date: 03/22/2001 Time: 1705 Labels checked by: JS

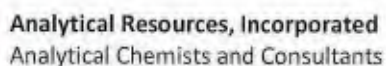
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Mar-2021 16:19

SO-TC-196A-031721
21C0308-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 03/17/2021 15:53

Instrument: ICP2 Analyst: SKD

Analyzed: 03/25/2021 15:09

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21C0308-01 A 02

Preparation Batch: BJC0661

Sample Size: 25 mL (wet)

Prepared: 03/24/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	0.242	mg/L	J
Lead	7439-92-1	5	0.0120	0.100	0.238	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Mar-2021 16:19

SO-TC-196A-031721
21C0308-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/17/2021 15:53

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 03/25/2021 01:27

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21C0308-01 A 01

Preparation Batch: BJC0697

Sample Size: 20.03 g (wet)

Prepared: 03/24/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.12	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Mar-2021 16:19

SO-TC-196B-031721
21C0308-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 03/17/2021 15:53

Instrument: ICP2 Analyst: SKD

Analyzed: 03/25/2021 15:12

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21C0308-02 A 02

Preparation Batch: BJC0661

Sample Size: 25 mL (wet)

Prepared: 03/24/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	0.0883	mg/L	J
Lead	7439-92-1	5	0.0120	0.100	0.131	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Mar-2021 16:19

SO-TC-196B-031721
21C0308-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/17/2021 15:53

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 03/25/2021 01:27

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21C0308-02 A 01

Preparation Batch: BJC0697

Sample Size: 20.06 g (wet)

Prepared: 03/24/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.28	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Mar-2021 16:19

TCLP Metals and Metallic Compounds - Quality Control

Batch BJC0661 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BJC0661-BLK1)					Prepared: 24-Mar-2021 Analyzed: 25-Mar-2021 15:03				
Arsenic	ND	0.0230	0.250	mg/L					U
Lead	ND	0.0120	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Mar-2021 16:19

Wet Chemistry - Quality Control

Batch BJC0697 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BJC0697-BS1)					Prepared: 24-Mar-2021 Analyzed: 25-Mar-2021 01:27				
pH	7.04	0.01	0.01	pH Units	7.00	101	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Mar-2021 16:19

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Mar-2021 16:19

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

29 March 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21C0329

Associated SDG ID(s)
N/A

Shelly Fishel
Digitally signed by Shelly Fishel
Date: 2021.03.29 18:16:31
-07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 21C0329		Turn-around Requested: 3 days		Date: 3/23/2021		
ARI Client Company: PERC		Phone: 425-346-0921		Page: of		
Client Contact: Kenny King		No. of Coolers: 2		Cooler Temps: 23.6		
Client Project Name: Superlon Plastics		Analysis Requested				Notes/Comments
Client Project #: SLON						
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C
SO-TC-196C-032221	03/22/21	14:52	Soil	1	✓	✓
Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Baltr</i>		Relinquished by: (Signature)	
	Printed Name: Kenny King		Printed Name: Jacob Baltr		Printed Name:	
	Company: PERC		Company: A02		Company:	
	Date & Time: 3/23/21 17:00		Date & Time: 03/23/2021 1700		Date & Time:	



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2021 18:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-196C-032221	21C0329-01	Solid	22-Mar-2021 14:52	23-Mar-2021 17:00



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2021 18:13

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21C0329

Sample receipt

One sample as listed on the preceding page was received 23-Mar-2021 17:00 under ARI work order 21C0329. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 21C0329-01 in batch BJC0750. The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastic

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 2100329

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1700

23.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JG

Date: 03/23/2021

Time: 1700

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: SC Date: 3/24/21 Time: 0815 Labels checked by: SC

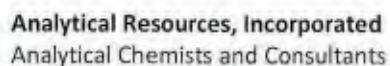
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

Completed by: JS Date: 03/23/2001 Time: 1700
00070F Cooler Temperature Compliance Form Vers



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2021 18:13

SO-TC-196C-032221
21C0329-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/22/2021 14:52

Instrument: ICP2 Analyst: SKD

Analyzed: 03/26/2021 21:41

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21C0329-01 A 02

Preparation Batch: BJC0750

Sample Size: 25 mL (wet)

Prepared: 03/26/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0478	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.139	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2021 18:13

SO-TC-196C-032221
21C0329-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/22/2021 14:52

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 03/25/2021 01:27

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21C0329-01 A

Preparation Batch: BJC0697

Sample Size: 20.1 g (wet)

Prepared: 03/24/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.34	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2021 18:13

TCLP Metals and Metallic Compounds - Quality Control

Batch BJC0750 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJC0750-BLK1)						Prepared: 26-Mar-2021 Analyzed: 26-Mar-2021 21:27					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	0.0176	0.0065	0.100	mg/L							J
Duplicate (BJC0750-DUP1)						Source: 21C0329-01 Prepared: 26-Mar-2021 Analyzed: 26-Mar-2021 21:38					
Arsenic	0.0678	0.0140	0.250	mg/L		0.0478			34.50	20	L, J
Lead	0.128	0.0065	0.100	mg/L		0.139			7.74	20	
Matrix Spike (BJC0750-MS1)						Source: 21C0329-01 Prepared: 26-Mar-2021 Analyzed: 26-Mar-2021 21:44					
Arsenic	4.11	0.0140	0.250	mg/L	4.00	0.0478	102	75-125			
Lead	4.09	0.0065	0.100	mg/L	4.00	0.139	98.9	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2021 18:13

Wet Chemistry - Quality Control

Batch BJC0697 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BJC0697-BS1)					Prepared: 24-Mar-2021 Analyzed: 25-Mar-2021 01:27				
pH	7.04	0.01	0.01	pH Units	7.00	101	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2021 18:13

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2021 18:13

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Three soil data packages for your approval prior to disposal at LRI

From Keith Johnston <KJohnston@tpchd.org>

Date Tue 4/13/2021 12:02 PM

To Jeff King <jking@perc-nw.com>; David Bosch <DBosch@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Jeff,

I have reviewed the lab data and the Health Department approves these soils for disposal at LRI Landfill under WDA 2526R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor

Waste Management/Solid and Hazardous Waste

(253) 405-8604 c • (253) 649-1840 o • kjohnston@tpchd.org www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

Our building is closed to the public. Find many of our services online. Visit www.tpchd.org. Sign up for our blogs at www.tpchd.org/notify.

[Waste Disposal Authorization](#)

From: Jeff King <jking@perc-nw.com>

Sent: Monday, April 12, 2021 10:38 AM

To: Keith Johnston <KJohnston@tpchd.org>; David Bosch <DBosch@tpchd.org>

Cc: kking perc-nw.com <kking@perc-nw.com>

Subject: Three soil data packages for your approval prior to disposal at LRI

Keith:

In David's absent I am submitting the attached three data packages for soil (from the Superior Plastics Site) to you for your approval prior to disposal at LRI. I have also attached the annual permit we will be working under as of today.

The table below summarizes the data. Each sample represents approximately 22CY of soil.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-197A-032921	ND	0.106	8.94	Asking for approval

SO-TC-197B-032921	ND	0.0306	9.15	Asking for approval
SO-TC-197C-032921	0.0181	1.01	9.01	Asking for approval
SO-TC-198A-032921	0.29	0.0993	5.9	Asking for approval
SO-TC-198B-032921	0.47	0.179	6.06	Asking for approval
SO-TC-198C-032921	0.113	0.0189	5.66	Asking for approval
SO-TC-199A-033021	0.632	0.152	6.38	Asking for approval
SO-TC-199B-033021	0.097	0.0334	6.24	Asking for approval
SO-TC-199C-033021	0.191	0.0805	6.08	Asking for approval

Thank you
Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

07 April 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21D0004

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed
by Shelly Fishel
Date: 2021.04.07
14:09:22 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 21D0004		Turn-around Requested: 3 days		Date: 3/29/2021		
ARI Client Company: PERC		Phone: 425-346-0921		Page: of		
Client Contact: Kenny King		No. of Coolers: 2		Cooler Temps: 19.2		
Client Project Name: Superlon Plastics		Analysis Requested				Notes/Comments
Client Project #: SLON						
Samplers: Oliva-Membreno		TCLP 1311 As/Pb Only	pH 9045C			
Sample ID	Date			Time	Matrix	No. Containers
SO-TC-197A-032921	03/29/21	14:10	Soil	1	✓	✓
SO-TC-197B-032921	03/29/21	14:20	Soil	1	✓	✓
SO-TC-197C-032921	03/29/21	14:30	Soil	1	✓	✓
Comments/Special Instructions		Relinquished by: B. J. Grimsted		Received by: Jacob LaRue		
		(Signature)		(Signature)		
		Printed Name:		Printed Name:		
		Company: Pioneer		Company: ARI		
Date & Time: 4/1/21 11:26		Date & Time: 04/01/2021 1126		Date & Time:		
Relinquished by:		Received by:		Relinquished by:		
(Signature)		(Signature)		(Signature)		
Printed Name:		Printed Name:		Printed Name:		
Company:		Company:		Company:		
Date & Time:		Date & Time:		Date & Time:		



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-197A-032921	21D0004-01	Solid	29-Mar-2021 14:10	01-Apr-2021 11:26
SO-TC-197B-032921	21D0004-02	Solid	29-Mar-2021 14:20	01-Apr-2021 11:26
SO-TC-197C-032921	21D0004-03	Solid	29-Mar-2021 14:30	01-Apr-2021 11:26



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:03

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21D0004

Sample receipt

Samples as listed on the preceding page were received 01-Apr-2021 11:26 under ARI work order 21D0004. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 21D0004-01 in batch BJD0138. The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 21D0004

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1126

19.2

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JS

Date: 04/01/2021

Time: 1126

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI... NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

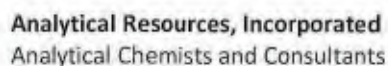
Samples Logged by: JS Date: 04/01/2021 Time: 1152 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: JS Date: 04/01/20 Time: 1126
00070F Cooler Temperature Compliance Form Ver



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:03

SO-TC-197A-032921
21D0004-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/29/2021 14:10

Instrument: ICP2 Analyst: SKD

Analyzed: 04/05/2021 15:56

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0004-01 A 02

Preparation Batch: BJD0054

Sample Size: 25 mL (wet)

Prepared: 04/02/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.106	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:03

SO-TC-197A-032921
21D0004-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/29/2021 14:10

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 04/05/2021 21:48

Sample Preparation:

Preparation Method: No Prep - Volatiles

Extract ID: 21D0004-01 A

Preparation Batch: BJD0138

Sample Size: 20.09 g (wet)

Prepared: 04/05/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.94	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:03

SO-TC-197B-032921
21D0004-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/29/2021 14:20

Instrument: ICP2 Analyst: SKD

Analyzed: 04/05/2021 16:41

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0004-02 A 02

Preparation Batch: BJD0054

Sample Size: 25 mL (wet)

Prepared: 04/02/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0306	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:03

SO-TC-197B-032921
21D0004-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/29/2021 14:20

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 04/05/2021 21:48

Sample Preparation:

Preparation Method: No Prep - Volatiles

Extract ID: 21D0004-02 A

Preparation Batch: BJD0138

Sample Size: 20.05 g (wet)

Prepared: 04/05/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.15	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:03

SO-TC-197C-032921
21D0004-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/29/2021 14:30

Instrument: ICP2 Analyst: SKD

Analyzed: 04/05/2021 16:44

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0004-03 A 02

Preparation Batch: BJD0054

Sample Size: 25 mL (wet)

Prepared: 04/02/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0181	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	1.01	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:03

SO-TC-197C-032921
21D0004-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/29/2021 14:30

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 04/05/2021 21:48

Sample Preparation:

Preparation Method: No Prep - Volatiles

Extract ID: 21D0004-03 A

Preparation Batch: BJD0138

Sample Size: 20.11 g (wet)

Prepared: 04/05/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.01	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:03

TCLP Metals and Metallic Compounds - Quality Control

Batch BJD0054 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BJD0054-BLK1)					Prepared: 02-Apr-2021 Analyzed: 05-Apr-2021 15:48				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	0.0136	0.0065	0.100	mg/L					J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:03

Wet Chemistry - Quality Control

Batch BJD0138 - No Prep - Volatiles

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BJD0138-BS1)										
					Prepared: 05-Apr-2021 Analyzed: 05-Apr-2021 21:48					
pH	6.99	0.01	0.01	pH Units	7.00	99.9	99.2-100.8			
Duplicate (BJD0138-DUP1)										
					Source: 21D0004-01 Prepared: 05-Apr-2021 Analyzed: 05-Apr-2021 21:48					
pH	9.01	0.01	0.01	pH Units	8.94			0.78	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:03

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:03

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

07 April 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21D0005

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by
Shelly Fishel
Date: 2021.04.07
14:21:32 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2100005	Turn-around Requested: 3 days	Date: 3/30/2021
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King	No. of Coolers: 4	Cooler Temps: 19.2



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments		
Client Project #: SLON		Samplers: Oliva-Membreno			TCLP 1311 As/Pb Only	pH 9045C									
Sample ID	Date	Time	Matrix	No. Containers											
SO-TC-198A-032921	03/29/21	08:15	Soil	1	✓	✓									
SO-TC-198B-032921	03/29/21	08:15	Soil	1	✓	✓									
SO-TC-198C-033021	03/30/21	08:20	Soil	1	✓	✓									
Comments/Special Instructions					Relinquished by: (Signature) <i>[Signature]</i>			Received by: (Signature) <i>[Signature]</i>			Relinquished by: (Signature)			Received by: (Signature)	
					Printed Name: <i>Brad Grimsted</i>			Printed Name: <i>Jacob LaRue</i>			Printed Name:			Printed Name:	
					Company: <i>Pioneer</i>			Company: <i>ADZ</i>			Company:			Company:	
					Date & Time: <i>4/1/21 11:26</i>			Date & Time: <i>04/01/2021 11:26</i>			Date & Time:			Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-198A-032921	21D0005-01	Solid	29-Mar-2021 08:15	01-Apr-2021 11:26
SO-TC-198B-032921	21D0005-02	Solid	29-Mar-2021 08:15	01-Apr-2021 11:26
SO-TC-198C-032921	21D0005-03	Solid	30-Mar-2021 08:20	01-Apr-2021 11:26



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:17

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21D0005

Sample receipt

Samples as listed on the preceding page were received 01-Apr-2021 11:26 under ARI work order 21D0005. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

COC No(s): _____ NA

Assigned ARI Job No: 21D0005

Project Name: Superior Plastics

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1126

19.2

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO5206

Cooler Accepted by: JS

Date: 04/01/2001

Time: 1126

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

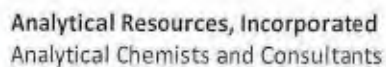
Samples Logged by: JS Date: 04/01/2001 Time: 1155 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: TS~ Date: 04/01/20 Time: 1126

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:17

SO-TC-198A-032921
21D0005-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/29/2021 08:15

Instrument: ICP2 Analyst: SKD

Analyzed: 04/05/2021 16:47

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0005-01 A 02

Preparation Batch: BJD0054

Sample Size: 25 mL (wet)

Prepared: 04/02/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.290	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0993	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:17

SO-TC-198A-032921
21D0005-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/29/2021 08:15

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 04/05/2021 21:48

Sample Preparation:

Preparation Method: No Prep - Volatiles

Extract ID: 21D0005-01 A

Preparation Batch: BJD0138

Sample Size: 20.04 g (wet)

Prepared: 04/05/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	5.90	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:17

SO-TC-198B-032921
21D0005-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/29/2021 08:15

Instrument: ICP2 Analyst: SKD

Analyzed: 04/05/2021 16:50

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0005-02 A 02

Preparation Batch: BJD0054

Sample Size: 25 mL (wet)

Prepared: 04/02/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.470	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.179	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:17

SO-TC-198B-032921
21D0005-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/29/2021 08:15

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 04/05/2021 21:48

Sample Preparation:

Preparation Method: No Prep - Volatiles

Extract ID: 21D0005-02 A

Preparation Batch: BJD0138

Sample Size: 20.07 g (wet)

Prepared: 04/05/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.06	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:17

SO-TC-198C-032921
21D0005-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/30/2021 08:20

Instrument: ICP2 Analyst: SKD

Analyzed: 04/05/2021 16:53

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0005-03 A 02

Preparation Batch: BJD0054

Sample Size: 25 mL (wet)

Prepared: 04/02/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.113	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0189	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:17

SO-TC-198C-032921
21D0005-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/30/2021 08:20

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 04/05/2021 21:48

Sample Preparation:

Preparation Method: No Prep - Volatiles

Extract ID: 21D0005-03 A

Preparation Batch: BJD0138

Sample Size: 20.01 g (wet)

Prepared: 04/05/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	5.66	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:17

TCLP Metals and Metallic Compounds - Quality Control

Batch BJD0054 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BJD0054-BLK1)					Prepared: 02-Apr-2021 Analyzed: 05-Apr-2021 15:48				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	0.0136	0.0065	0.100	mg/L					J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:17

Wet Chemistry - Quality Control

Batch BJD0138 - No Prep - Volatiles

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BJD0138-BS1)					Prepared: 05-Apr-2021 Analyzed: 05-Apr-2021 21:48				
pH	6.99	0.01	0.01	pH Units	7.00	99.9	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:17

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:17

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

07 April 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21D0006

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2021.04.07
14:26:51 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: <u>2100006</u>		Turn-around Requested: <u>3 days</u>		Date: <u>3/31/2021</u>		
ARI Client Company: <u>PERC</u>		Phone: <u>425-346-0921</u>		Page: <u>of</u>		
Client Contact: <u>Kenny King</u>		No. of Coolers: <u>8</u>		Cooler Temps: <u>19.2</u>		
Client Project Name: <u>Superlon Plastics</u>		Analysis Requested				Notes/Comments
Client Project #: <u>SLON</u>						
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C
SO-TC-199A-033021	03/30/21	09:42	Soil	1	✓	✓
SO-TC-199B-033021	03/30/21	13:55	Soil	1	✓	✓
SO-TC-199C-033121	03/31/21	11:50	Soil	1	✓	✓
Comments/Special Instructions		Relinquished by: (Signature) <u>[Signature]</u>		Received by: (Signature) <u>[Signature]</u>		
		Printed Name: <u>Brad Grimsford</u>		Printed Name: <u>Jacob LaFite</u>		
		Company: <u>PIONEER</u>		Company: <u>ARI</u>		
		Date & Time: <u>4/1/21 11:26</u>		Date & Time: <u>04/01/2021 1126</u>		



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-199A-033021	21D0006-01	Solid	30-Mar-2021 09:42	01-Apr-2021 11:26
SO-TC-199B-033021	21D0006-02	Solid	30-Mar-2021 13:55	01-Apr-2021 11:26
SO-TC-199C-033121	21D0006-03	Solid	31-Mar-2021 11:50	01-Apr-2021 11:26



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:25

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21D0006

Sample receipt

Samples as listed on the preceding page were received 01-Apr-2021 11:26 under ARI work order 21D0006. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC
COC No(s): 21D0006 ^{NA}
Assigned ARI Job No: 21D0006

Project Name: Superior Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA
Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1126

19.2

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO5206

Cooler Accepted by: JS

Date: 04/01/2021

Time: 1126

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

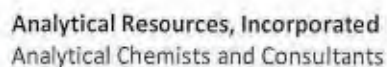
Samples Logged by: JS Date: 04/01/2021 Time: 1159 Labels checked by: JS

** Notify Project Manager of discrepancies or concerns **

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

Completed by: TS~ Date: 04/01/20 Time: 1126

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:25

SO-TC-199A-033021
21D0006-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/30/2021 09:42

Instrument: ICP2 Analyst: SKD

Analyzed: 04/05/2021 16:56

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0006-01 A 02

Preparation Batch: BJD0054

Sample Size: 25 mL (wet)

Prepared: 04/02/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.632	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.152	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:25

SO-TC-199A-033021
21D0006-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/30/2021 09:42

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 04/05/2021 21:48

Sample Preparation:

Preparation Method: No Prep - Volatiles

Extract ID: 21D0006-01 A

Preparation Batch: BJD0138

Sample Size: 20.16 g (wet)

Prepared: 04/05/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.38	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:25

SO-TC-199B-033021
21D0006-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/30/2021 13:55

Instrument: ICP2 Analyst: SKD

Analyzed: 04/05/2021 16:59

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0006-02 A 02

Preparation Batch: BJD0054

Sample Size: 25 mL (wet)

Prepared: 04/02/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0970	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0334	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:25

SO-TC-199B-033021
21D0006-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/30/2021 13:55

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 04/05/2021 21:48

Sample Preparation:

Preparation Method: No Prep - Volatiles

Extract ID: 21D0006-02 A

Preparation Batch: BJD0138

Sample Size: 20.05 g (wet)

Prepared: 04/05/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.24	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:25

SO-TC-199C-033121
21D0006-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/31/2021 11:50

Instrument: ICP2 Analyst: SKD

Analyzed: 04/05/2021 17:59

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0006-03 A 02

Preparation Batch: BJD0054

Sample Size: 25 mL (wet)

Prepared: 04/02/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.191	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0805	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:25

SO-TC-199C-033121
21D0006-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/31/2021 11:50

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 04/05/2021 21:48

Sample Preparation:

Preparation Method: No Prep - Volatiles

Extract ID: 21D0006-03 A

Preparation Batch: BJD0138

Sample Size: 20.08 g (wet)

Prepared: 04/05/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.08	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:25

TCLP Metals and Metallic Compounds - Quality Control

Batch BJD0054 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BJD0054-BLK1)					Prepared: 02-Apr-2021 Analyzed: 05-Apr-2021 15:48				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	0.0136	0.0065	0.100	mg/L					J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:25

Wet Chemistry - Quality Control

Batch BJD0138 - No Prep - Volatiles

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BJD0138-BS1)					Prepared: 05-Apr-2021 Analyzed: 05-Apr-2021 21:48				
pH	6.99	0.01	0.01	pH Units	7.00	99.9	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:25

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-Apr-2021 14:25

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: 4 data packages for you review and approval

From David Bosch <DBosch@tpchd.org>
Date Tue 4/27/2021 9:15 AM
To Jeff King <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Jeff,

The Tacoma-Pierce County Health Department has reviewed the four data sets dated April 19 (3) and April 27, 2021. As stated in the email and table below, some batches will be retreated: SO-TC-200B-041221 and SO-TC-201A, 201B, and 201C- 041221.

The other batches listed in the table below are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 405-8599 c • dbosch@tpchd.org

(253) 649-1841 o • www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: Jeff King <jking@perc-nw.com>
Sent: Tuesday, April 27, 2021 8:51 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: RE: 4 data packages for you review and approval

Sorry. Here it is.

BTW: I was just reminded by my staff that we retreated all of the 201 series so what we are looking for is approval of soils listed on the following table. My mistake.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-200A-041221	0.11	2.21	8.74	
SO-TC-200B-041221	0.18	6.45	8.77	NOT ASKING FOR APPROVAL - BEING RETREATED
SO-TC-200C-041221	0.0201	0.351	8.27	Asking for approval
SO-TC-202A-033121	0.268	0.0523	7.22	Asking for approval
SO-TC-202B-033121	ND	0.0471	5.55	Asking for approval
SO-TC-204A-042021	0.724	0.0202	9.35	Asking for approval
SO-TC-204B-042021	0.273	0.0163	9.19	Asking for approval
SO-TC-204C-042021	0.844	0.0183	9.28	Asking for approval

From: David Bosch [<mailto:DBosch@tpchd.org>]
Sent: Tuesday, April 27, 2021 8:38 AM
To: Jeff King <jking@perc-nw.com>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: RE: 4 data packages for you review and approval

Jeff,

Quick question:

Am I missing a data set? It looks like the data sets for samples SO-TC-200A, 200B, and 200C- 041221 were not attached.

Thanks.

From: Jeff King <jking@perc-nw.com>
Sent: Tuesday, April 27, 2021 8:18 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: 4 data packages for you review and approval

David:

Attached are 4 data packages for your review and approval. We are asking for the approval of only 9 of the 11 soil sets remediated at the Superlon Site. Two sets of soil (represented by samples SO-TC-200B-041221 and SO-TC-201A-041221) have been, along with soils in contact these soils in the stockpile, retreated.

The following tables lists the data. Each sample represents approximately 23 CY of soil.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-200A-041221	0.11	2.21	8.74	
SO-TC-200B-041221	0.18	6.45	8.77	NOT ASKING FOR APPROVAL - BEING RETREATED
SO-TC-200C-041221	0.0201	0.351	8.27	Asking for approval
SO-TC-201A-041221	0.364	24	8.6	NOT ASKING FOR APPROVAL - BEING RETREATED
SO-TC-201B-041221	0.0439	2.15	8.55	Asking for approval

SO-TC-201C-041221	0.0584	3.23	8.82	Asking for approval
SO-TC-202A-033121	0.268	0.0523	7.22	Asking for approval
SO-TC-202B-033121	ND	0.0471	5.55	Asking for approval
SO-TC-204A-042021	0.724	0.0202	9.35	Asking for approval
SO-TC-204B-042021	0.273	0.0163	9.19	Asking for approval
SO-TC-204C-042021	0.844	0.0183	9.28	Asking for approval

Thank you
Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

19 April 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21D0131

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed
by Shelly Fishel
Date: 2021.04.19
11:14:13 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-200A-041221	21D0131-01	Solid	12-Apr-2021 11:00	12-Apr-2021 16:56
SO-TC-200B-041221	21D0131-02	Solid	12-Apr-2021 11:10	12-Apr-2021 16:56
SO-TC-200C-041221	21D0131-03	Solid	12-Apr-2021 11:20	12-Apr-2021 16:56



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:12

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21D0131

Sample receipt

Samples as listed on the preceding page were received 12-Apr-2021 16:56 under ARI work order 21D0131. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC
COC No(s): NA
Assigned ARI Job No: 21D0131

Project Name: Superior Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA
Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) YES NO

Time 1656 23.8
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO 5206

Cooler Accepted by: JS Date: 04/12/21 Time: 1656

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: SC Date: 4/13/21 Time: 0859 Labels checked by: SC

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 21D0131

Cooler#: _____ Temperature(°C): 23.8

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*samples received
about 6:00*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: SS Date: 07/16/2021 Time: 1656

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:12

SO-TC-200A-041221
21D0131-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/12/2021 11:00

Instrument: ICP2 Analyst: SKD

Analyzed: 04/15/2021 20:01

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0131-01 A 03

Preparation Batch: BJD0384

Sample Size: 25 mL (wet)

Prepared: 04/15/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.110	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	2.21	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:12

SO-TC-200A-041221
21D0131-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/12/2021 11:00

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/14/2021 13:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0131-01 A

Preparation Batch: BJD0358

Sample Size: 19.97 g (wet)

Prepared: 04/14/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.74	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:12

SO-TC-200B-041221
21D0131-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/12/2021 11:10

Instrument: ICP2 Analyst: SKD

Analyzed: 04/15/2021 20:04

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0131-02 A 03

Preparation Batch: BJD0384

Sample Size: 25 mL (wet)

Prepared: 04/15/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.181	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	6.45	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:12

SO-TC-200B-041221
21D0131-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/12/2021 11:10

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/14/2021 13:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0131-02 A

Preparation Batch: BJD0358

Sample Size: 20.02 g (wet)

Prepared: 04/14/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.77	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:12

SO-TC-200C-041221
21D0131-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/12/2021 11:20

Instrument: ICP2 Analyst: SKD

Analyzed: 04/15/2021 20:07

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0131-03 A 03

Preparation Batch: BJD0384

Sample Size: 25 mL (wet)

Prepared: 04/15/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0201	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.351	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:12

SO-TC-200C-041221
21D0131-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/12/2021 11:20

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/14/2021 13:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0131-03 A

Preparation Batch: BJD0358

Sample Size: 20.09 g (wet)

Prepared: 04/14/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.27	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:12

TCLP Metals and Metallic Compounds - Quality Control

Batch BJD0384 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BJD0384-BLK1)					Prepared: 15-Apr-2021 Analyzed: 15-Apr-2021 19:13				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	0.0081	0.0065	0.100	mg/L					J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:12

Wet Chemistry - Quality Control

Batch BJD0358 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BJD0358-BS1)					Prepared: 14-Apr-2021 Analyzed: 14-Apr-2021 13:25				
pH	7.02	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:12

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:12

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

19 April 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21D0130

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed
by Shelly Fishel
Date: 2021.04.19
11:41:04 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



B B B B

$$\bar{A} \quad \bar{A} \quad \bar{A}$$


Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Page 2 of 14 21D0130 ARISample FINAL 19 Apr 2021 11:11

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-202A-033121	21D0130-01	Solid	31-Mar-2021 14:15	12-Apr-2021 16:56
SO-TC-202B-040121	21D0130-02	Solid	01-Apr-2021 10:10	12-Apr-2021 16:56



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:27

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21D0130

Sample receipt

Samples as listed on the preceding page were received 12-Apr-2021 16:56 under ARI work order 21D0130. For details regarding sample receipt, please refer to the Cooler Receipt Form.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries were within control limits.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 21D0130-01 in batch BJD0358. The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 21D0130

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?

YES NO

Were custody papers included with the cooler?

YES NO

Were custody papers properly filled out (ink, signed, etc.)

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1656

23.8

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 2266

Cooler Accepted by: JS Date: 04/12/21 Time: 1656

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?

YES NO

What kind of packing material was used? ...

Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:

Was sufficient ice used (if appropriate)?

NA YES NO

How were bottles sealed in plastic bags?

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)?

YES NO

Were all bottle labels complete and legible?

YES NO

Did the number of containers listed on COC match with the number of containers received?

YES NO

Did all bottle labels and tags agree with custody papers?

YES NO

Were all bottles used correct for the requested analyses?

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA YES NO

Were all VOC vials free of air bubbles?

NA YES NO

Was sufficient amount of sample sent in each bottle?

YES NO

Date VOC Trip Blank was made at ARI

NA

Were the sample(s) split
by ARI? NA

YES

Date/Time:

Equipment:

Split by:

Samples Logged by: SC Date: 4/13/21 Time: 0849 Labels checked by: SC

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 21D0130

Cooler#: _____ Temperature(°C): 23.8

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*samples received
about 6:00*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: [Signature] Date: 09/12/2021 Time: 1656

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:27

SO-TC-202A-033121
21D0130-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/31/2021 14:15

Instrument: ICP2 Analyst: SKD

Analyzed: 04/15/2021 19:16

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0130-01 A 03

Preparation Batch: BJD0384

Sample Size: 25 mL (wet)

Prepared: 04/15/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.268	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0523	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:27

SO-TC-202A-033121
21D0130-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/31/2021 14:15

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/14/2021 13:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0130-01 A

Preparation Batch: BJD0358

Sample Size: 20.06 g (wet)

Prepared: 04/14/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.22	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:27

SO-TC-202B-040121
21D0130-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/01/2021 10:10

Instrument: ICP2 Analyst: SKD

Analyzed: 04/15/2021 19:58

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0130-02 A 03

Preparation Batch: BJD0384

Sample Size: 25 mL (wet)

Prepared: 04/15/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0471	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:27

SO-TC-202B-040121
21D0130-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/01/2021 10:10

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/14/2021 13:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0130-02 A

Preparation Batch: BJD0358

Sample Size: 20.06 g (wet)

Prepared: 04/14/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	5.55	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:27

TCLP Metals and Metallic Compounds - Quality Control

Batch BJD0384 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BJD0384-BLK1)					Prepared: 15-Apr-2021 Analyzed: 15-Apr-2021 19:13				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	0.0081	0.0065	0.100	mg/L					J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:27

Wet Chemistry - Quality Control

Batch BJD0358 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BJD0358-BS1)						Prepared: 14-Apr-2021 Analyzed: 14-Apr-2021 13:25					
pH	7.02	0.01	0.01	pH Units	7.00		100	99.2-100.8			
Duplicate (BJD0358-DUP1)						Source: 21D0130-01 Prepared: 14-Apr-2021 Analyzed: 14-Apr-2021 13:25					
pH	7.28	0.01	0.01	pH Units		7.22			0.83	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:27

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2021 11:27

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

27 April 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21D0213

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2021.04.27
07:32:16 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: <u>21D0213</u>		Turn-around Requested: <u>3 days</u>		Date: <u>4/20/2021</u>		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: <u>PERC</u>		Phone: <u>425-346-0921</u>		Page: <u>of</u>					
Client Contact: <u>Kenny King</u>				No. of Coolers: <u>9</u> Cooler Temps: <u>27.3</u>					
Client Project Name: <u>Superlon Plastics</u>				Analysis Requested				Notes/Comments	
Client Project #: <u>SLON</u>		Samplers: <u>Oliva-Membreno</u>							
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C			
SO-TC-204A-042021	04/20/21	13:35	Soil	1	✓	✓			
SO-TC-204B-042021	04/20/21	13:50	Soil	1	✓	✓			
SO-TC-204C-042021	04/20/21	14:05	Soil	1	✓	✓			
Comments/Special Instructions		Relinquished by: (Signature) <u>Kenny King</u>		Received by: (Signature) <u>[Signature]</u>		Relinquished by: (Signature) <u>[Signature]</u>		Received by: (Signature) <u>[Signature]</u>	
		Printed Name: <u>Kenny King</u>		Printed Name: <u>Carobhalte</u>		Printed Name:		Printed Name:	
		Company: <u>PERC</u>		Company: <u>ARI</u>		Company:		Company:	
		Date & Time: <u>4/20/2021 16:44</u>		Date & Time: <u>04/20/2021 1644</u>		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 07:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-204A-042021	21D0213-01	Solid	20-Apr-2021 13:35	20-Apr-2021 16:44
SO-TC-204B-042021	21D0213-02	Solid	20-Apr-2021 13:50	20-Apr-2021 16:44
SO-TC-204C-042021	21D0213-03	Solid	20-Apr-2021 14:05	20-Apr-2021 16:44



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 07:27

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21D0213

Sample receipt

Samples as listed on the preceding page were received 20-Apr-2021 16:44 under ARI work order 21D0213. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 21D0213-01 in batch BJD0525. The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 21D0213

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1644

27.3

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 206

Cooler Accepted by: JS

Date: 04/20/2021

Time: 1644

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? _____ Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES NO

How were bottles sealed in plastic bags? _____

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI _____

NA

Were the sample(s) split by ARI? NA YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: JS Date: 04/20/2021 Time: 1706 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 21D0213

Cooler#: _____ Temperature(°C): 27.3

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
about 6:00*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: SS Date: 04/20/2021 Time: 1644

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 07:27

SO-TC-204A-042021
21D0213-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/20/2021 13:35

Instrument: ICP2 Analyst: SKD

Analyzed: 04/23/2021 14:17

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0213-01 A 02

Preparation Batch: BJD0534

Sample Size: 25 mL (wet)

Prepared: 04/22/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.724	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0202	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 07:27

SO-TC-204A-042021
21D0213-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/20/2021 13:35

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 04/21/2021 21:21

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0213-01 A

Preparation Batch: BJD0525

Sample Size: 20.04 g (wet)

Prepared: 04/21/2021

Final Volume: 20.04 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.35	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 07:27

SO-TC-204B-042021
21D0213-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/20/2021 13:50

Instrument: ICP2 Analyst: SKD

Analyzed: 04/23/2021 14:20

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0213-02 A 02

Preparation Batch: BJD0534

Sample Size: 25 mL (wet)

Prepared: 04/22/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.273	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0163	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 07:27

SO-TC-204B-042021
21D0213-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/20/2021 13:50

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 04/21/2021 21:21

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0213-02 A

Preparation Batch: BJD0525

Sample Size: 20.02 g (wet)

Prepared: 04/21/2021

Final Volume: 20.02 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.19	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 07:27

SO-TC-204C-042021
21D0213-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/20/2021 14:05

Instrument: ICP2 Analyst: SKD

Analyzed: 04/23/2021 14:23

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0213-03 A 02

Preparation Batch: BJD0534

Sample Size: 25 mL (wet)

Prepared: 04/22/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.844	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0183	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 07:27

SO-TC-204C-042021
21D0213-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/20/2021 14:05

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 04/21/2021 21:21

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0213-03 A

Preparation Batch: BJD0525

Sample Size: 20.31 g (wet)

Prepared: 04/21/2021

Final Volume: 20.31 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.28	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 07:27

TCLP Metals and Metallic Compounds - Quality Control

Batch BJD0534 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BJD0534-BLK1)					Prepared: 22-Apr-2021 Analyzed: 23-Apr-2021 14:14				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 07:27

Wet Chemistry - Quality Control

Batch BJD0525 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BJD0525-BS1)					Prepared: 21-Apr-2021 Analyzed: 21-Apr-2021 21:21					
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8			
Duplicate (BJD0525-DUP1)					Source: 21D0213-01 Prepared: 21-Apr-2021 Analyzed: 21-Apr-2021 21:21					
pH	9.41	0.01	0.01	pH Units	9.35	0.64	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 07:27

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 07:27

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Four data packages for your review and approval

From David Bosch <DBosch@tpchd.org>
Date Mon 5/10/2021 11:02 AM
To Jeff King <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Jeff,

The Tacoma-Pierce County Health Department has reviewed the four data sets dated April 27, April 29, April 30, and May 5, 2021. The soils associated with these waste characterizations are acceptable for disposal at the LRI Landfill.

Thank you.

David Bosch

Environmental Health Specialist III

Environmental Health

(253) 405-8599 c • dbosch@tpchd.org

(253) 649-1841 o • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: Jeff King <jking@perc-nw.com>
Sent: Monday, May 10, 2021 8:35 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: Four data packages for your review and approval

CAUTION: Someone outside Tacoma-Pierce County Health Department sent this email. Do not click links or open attachments unless you recognize the sender and know the content is safe.

David:

Attached are four data packages for your review and approval. Each sample represents approximately 23 CY of soil. The following table lists the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-205A-042121	0.0482	0.0403	9.59	Asking for approval
SO-TC-205B-042121	0.133	0.0297	9.21	Asking for approval
SO-TC-205C-042121	0.0994	0.0249	9.46	Asking for approval
SO-TC-206A-042221	0.305	0.0226	9.94	Asking for approval
SO-TC-206B-042221	0.179	0.0199	9.64	Asking for approval
SO-TC-206C-042221	0.224	0.013	9.57	Asking for approval
SO-TC-207A-042621	0.184	0.0215	9.39	Asking for approval
SO-TC-207B-042621	0.175	0.0166	9.47	Asking for approval
SO-TC-207C-042621	0.111	0.0257	9.46	Asking for approval
SO-TC-208A-042721	0.475	0.0114	9.69	Asking for approval
SO-TC-208B-042721	0.208	ND	9.66	Asking for approval
SO-TC-208C-042721	0.0348	ND	9.62	Asking for approval

Thank you
Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

This electronic mail transmission and any accompanying documents contain information belonging to the sender which may be confidential and legally privileged. This information is intended only for the use of the individual or entity to whom this electronic mail transmission was sent as indicated above. If you are not the intended recipient, any disclosure, copying, distribution, or action taken in reliance on the contents of the information contained in this transmission is strictly prohibited. If you have received this transmission in error, please notify the sender by return e-mail and delete the message. Thank you



Analytical Resources, Incorporated
Analytical Chemists and Consultants

27 April 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21D0229

Associated SDG ID(s)
N/A

Digitally signed by Shelly
Fishel
Date: 2021.04.27 13:42:41
-07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 21D0229		Turn-around Requested: 3 days		
ARI Client Company: PERC		Phone: 425-346-0921		
Client Contact: Kenny King				
Client Project Name: Superlon Plastics				
Client Project #: SLON		Samplers: King		
Sample ID	Date	Time	Matrix	No. Containers
SO-TC-205A-042121	04/21/21	09:10	Soil	1
SO-TC-205B-042121	04/21/21	09:20	Soil	1
SO-TC-205C-042121	04/21/21	09:30	Soil	1
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>[Signature]</i>
		Printed Name: Kenny King		Printed Name: Se...
		Company: PERC		Company: Ar...
		Date & Time: 4/21/2021 16:43		Date & Time: 04/21/2021 16:43

Page: of

No. of Coolers:	4	Cooler Temps:	24.7
-----------------	---	---------------	------



Analysis Requested								Notes/Comments
TCLP 1311 As/Pb Only	pH 9045C							
✓	✓							
✓	✓							
✓	✓							
		Relinquished by: (Signature)						Received by: (Signature)
		Printed Name:						Printed Name:
		Company:						Company:
		Date & Time:						Date & Time:

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 13:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-205A-042121	21D0229-01	Solid	21-Apr-2021 09:10	21-Apr-2021 16:43
SO-TC-205B-042121	21D0229-02	Solid	21-Apr-2021 09:20	21-Apr-2021 16:43
SO-TC-205C-042121	21D0229-03	Solid	21-Apr-2021 09:30	21-Apr-2021 16:43



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 13:35

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21D0229

Sample receipt

Samples as listed on the preceding page were received 21-Apr-2021 16:43 under ARI work order 21D0229. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 21D0229-01 in batch BJD0600. The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 21D0229

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1643 24.3

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JSu Date: 04/21/21 Time: 1643

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

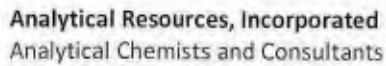
Samples Logged by: KD Date: 4/22/21 Time: 0818 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: SSC Date: 04/21/2021 Time: 1643
00070F Cooler Temperature Compliance Form Vers



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 13:35

SO-TC-205A-042121
21D0229-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/21/2021 09:10

Instrument: ICP2 Analyst: SKD

Analyzed: 04/26/2021 15:06

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0229-01 A 02

Preparation Batch: BJD0570

Sample Size: 25 mL (wet)

Prepared: 04/23/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0482	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0403	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 13:35

SO-TC-205A-042121
21D0229-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/21/2021 09:10

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 04/25/2021 09:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0229-01 A

Preparation Batch: BJD0600

Sample Size: 20.1 g (wet)

Prepared: 04/25/2021

Final Volume: 20.1 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.59	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 13:35

SO-TC-205B-042121
21D0229-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/21/2021 09:20

Instrument: ICP2 Analyst: SKD

Analyzed: 04/26/2021 15:09

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0229-02 A 02

Preparation Batch: BJD0570

Sample Size: 25 mL (wet)

Prepared: 04/23/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.133	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0297	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 13:35

SO-TC-205B-042121
21D0229-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/21/2021 09:20

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 04/25/2021 09:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0229-02 A

Preparation Batch: BJD0600

Sample Size: 20.05 g (wet)

Prepared: 04/25/2021

Final Volume: 20.05 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.21	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 13:35

SO-TC-205C-042121
21D0229-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/21/2021 09:30

Instrument: ICP2 Analyst: SKD

Analyzed: 04/26/2021 15:12

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0229-03 A 02

Preparation Batch: BJD0570

Sample Size: 25 mL (wet)

Prepared: 04/23/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0994	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0249	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 13:35

SO-TC-205C-042121
21D0229-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/21/2021 09:30

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 04/25/2021 09:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0229-03 A

Preparation Batch: BJD0600

Sample Size: 20.04 g (wet)

Prepared: 04/25/2021

Final Volume: 20.04 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.46	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 13:35

TCLP Metals and Metallic Compounds - Quality Control

Batch BJD0570 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BJD0570-BLK1)					Prepared: 23-Apr-2021 Analyzed: 26-Apr-2021 15:03				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	0.0089	0.0065	0.100	mg/L					J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 13:35

Wet Chemistry - Quality Control

Batch BJD0600 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BJD0600-BS1)					Prepared: 25-Apr-2021 Analyzed: 25-Apr-2021 09:38					
pH	7.01	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BJD0600-DUP1)					Source: 21D0229-01 Prepared: 25-Apr-2021 Analyzed: 25-Apr-2021 09:38					
pH	9.44	0.01	0.01	pH Units	9.59			1.58	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 13:35

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2021 13:35

Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

29 April 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21D0241

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2021.04.29
08:23:41 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2100241		Turn-around Requested: 3 days		Date: 4/22/2021		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of					
Client Contact: Kenny King				No. of Coolers: 2 Cooler Temps: 24.3					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		pH 9045C			
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-206A-042221	04/22/21	12:40	Soil	1	✓	✓			
SO-TC-206B-042221	04/22/21	12:50	Soil	1	✓	✓			
SO-TC-206C-042221	04/22/21	13:00	Soil	1	✓	✓			
Comments/Special Instructions		Relinquished by:		Received by:		Relinquished by:		Received by:	
		(Signature) <i>Kenny King</i>		(Signature) <i>Jacob Walter</i>		(Signature)		(Signature)	
		Printed Name: <i>Kenny King</i>		Printed Name: <i>Jacob Walter</i>		Printed Name:		Printed Name:	
		Company: <i>PERC</i>		Company: <i>ARI</i>		Company:		Company:	
Date & Time: <i>4/22/21 14:01</i>		Date & Time: <i>04/22/21 14:01</i>		Date & Time:		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2021 08:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-206A-042221	21D0241-01	Solid	22-Apr-2021 12:40	22-Apr-2021 14:01
SO-TC-206B-042221	21D0241-02	Solid	22-Apr-2021 12:50	22-Apr-2021 14:01
SO-TC-206C-042221	21D0241-03	Solid	22-Apr-2021 13:00	22-Apr-2021 14:01



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2021 08:20

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21D0241

Sample receipt

Samples as listed on the preceding page were received 22-Apr-2021 14:01 under ARI work order 21D0241. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 21D0241-01 in batch BJD0627. The duplicate (DUP) relative percent difference (RPD) and the matrix spike (MS) percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 21D0241

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1401 24.3

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 806

Cooler Accepted by: JS Date: 04/22/21 Time: 1401

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: SC Date: 4/22/21 Time: 1448 Labels checked by: SC

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 2100241

Cooler#: _____ Temperature(°C): 29.3

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
about 6:00*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: SSW Date: 04/02/2021 Time: 1401

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2021 08:20

SO-TC-206A-042221
21D0241-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/22/2021 12:40

Instrument: ICP2 Analyst: MCB

Analyzed: 04/27/2021 16:05

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0241-01 A 02

Preparation Batch: BJD0627

Sample Size: 25 mL (wet)

Prepared: 04/27/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.305	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0226	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2021 08:20

SO-TC-206A-042221
21D0241-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/22/2021 12:40

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 04/25/2021 09:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0241-01 A

Preparation Batch: BJD0600

Sample Size: 20.08 g (wet)

Prepared: 04/25/2021

Final Volume: 20.08 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.94	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2021 08:20

SO-TC-206B-042221
21D0241-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/22/2021 12:50

Instrument: ICP2 Analyst: MCB

Analyzed: 04/27/2021 15:53

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0241-02 A 02

Preparation Batch: BJD0627

Sample Size: 25 mL (wet)

Dry Weight: 20.52 mL

Prepared: 04/27/2021

Final Volume: 25 mL

% Solids: 82.07

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.179	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0199	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2021 08:20

SO-TC-206B-042221
21D0241-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/22/2021 12:50

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 04/25/2021 09:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0241-02 A

Preparation Batch: BJD0600

Sample Size: 20.12 g (wet)

Dry Weight: 16.51 g

Prepared: 04/25/2021

Final Volume: 20.12 g

% Solids: 82.07

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.64	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2021 08:20

SO-TC-206C-042221
21D0241-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/22/2021 13:00

Instrument: ICP2 Analyst: MCB

Analyzed: 04/27/2021 15:56

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0241-03 A 02

Preparation Batch: BJD0627

Sample Size: 25 mL (wet)

Dry Weight: 21.05 mL

Prepared: 04/27/2021

Final Volume: 25 mL

% Solids: 84.18

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.224	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0130	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2021 08:20

SO-TC-206C-042221
21D0241-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/22/2021 13:00

Instrument: Accumet AB150 Analyst: KLE

Analyzed: 04/25/2021 09:38

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0241-03 A

Preparation Batch: BJD0600

Sample Size: 20.05 g (wet)

Dry Weight: 16.88 g

Prepared: 04/25/2021

Final Volume: 20.05 g

% Solids: 84.18

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.57	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2021 08:20

TCLP Metals and Metallic Compounds - Quality Control

Batch BJD0627 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MCB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJD0627-BLK1)						Prepared: 27-Apr-2021 Analyzed: 27-Apr-2021 15:38					
Arsenic	0.0256	0.0140	0.250	mg/L							J
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BJD0627-DUP1)						Source: 21D0241-01 Prepared: 27-Apr-2021 Analyzed: 27-Apr-2021 16:02					
Arsenic	0.289	0.0140	0.250	mg/L		0.305			5.48	20	
Lead	0.0117	0.0065	0.100	mg/L		0.0226			63.20	20	L, J
Matrix Spike (BJD0627-MS1)						Source: 21D0241-01 Prepared: 27-Apr-2021 Analyzed: 27-Apr-2021 16:08					
Arsenic	4.29	0.0140	0.250	mg/L	4.00	0.305	99.7	75-125			
Lead	3.68	0.0065	0.100	mg/L	4.00	0.0226	91.5	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2021 08:20

Wet Chemistry - Quality Control

Batch BJD0600 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: KLE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BJD0600-BS1)					Prepared: 25-Apr-2021 Analyzed: 25-Apr-2021 09:38				
pH	7.01	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2021 08:20

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Apr-2021 08:20

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

30 April 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21D0279

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2021.04.30
16:35:49 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2100279	Turn-around Requested: 3 days	Date: 4/26/2021
ARI Client Company: PERC	Phone: 425-346-0921	Page: of
Client Contact: Kenny King		No. of Coolers: 1
		Cooler Temps: 21.6



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-207A-042621	04/26/21	09:15	Soil	1	✓	✓							
SO-TC-207B-042621	04/26/21	09:25	Soil	1	✓	✓							
SO-TC-207C-042621	04/26/21	09:35	Soil	1	✓	✓							
Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Jacob Walter</i>			Relinquished by: (Signature)			Received by: (Signature)			
	Printed Name: Kenny King			Printed Name: Jacob Walter			Printed Name:			Printed Name:			
	Company: PERC			Company: ARZ			Company:			Company:			
	Date & Time: 4/26/2021 16:39			Date & Time: 04/26/2021 1639			Date & Time:			Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2021 16:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-207A-042621	21D0279-01	Solid	26-Apr-2021 09:15	26-Apr-2021 16:39
SO-TC-207B-042621	21D0279-02	Solid	26-Apr-2021 09:25	26-Apr-2021 16:39
SO-TC-207C-042621	21D0279-03	Solid	26-Apr-2021 09:35	26-Apr-2021 16:39



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2021 16:32

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21D0279

Sample receipt

Samples as listed on the preceding page were received 26-Apr-2021 16:39 under ARI work order 21D0279. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 21D0279-01 in batch BJD0699. The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 21D0279-01 in batch BJD0686. The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): 21D0279 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 21D0279

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1639 21.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 526

Cooler Accepted by: JS Date: 04/26/2021 Time: 1639

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

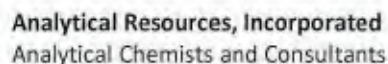
Samples Logged by: JS Date: 04/27/2021 Time: 0822 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: JS Date: 6/26/2021 Time: 1639
00070F Cooler Temperature Compliance Form Ver



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2021 16:32

SO-TC-207A-042621
21D0279-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/26/2021 09:15

Instrument: ICP2 Analyst: SKD

Analyzed: 04/29/2021 15:50

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0279-01 A 02

Preparation Batch: BJD0686

Sample Size: 25 mL (wet)

Prepared: 04/29/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.184	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0215	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2021 16:32

SO-TC-207A-042621
21D0279-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/26/2021 09:15

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/29/2021 13:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0279-01 A 01

Preparation Batch: BJD0699

Sample Size: 20.09 g (wet)

Prepared: 04/29/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.39	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2021 16:32

SO-TC-207B-042621
21D0279-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/26/2021 09:25

Instrument: ICP2 Analyst: SKD

Analyzed: 04/29/2021 16:09

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0279-02 A 02

Preparation Batch: BJD0686

Sample Size: 25 mL (wet)

Prepared: 04/29/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.175	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0166	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2021 16:32

SO-TC-207B-042621
21D0279-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/26/2021 09:25

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/29/2021 13:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0279-02 A 01

Preparation Batch: BJD0699

Sample Size: 20.05 g (wet)

Prepared: 04/29/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.47	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2021 16:32

SO-TC-207C-042621
21D0279-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/26/2021 09:35

Instrument: ICP2 Analyst: SKD

Analyzed: 04/29/2021 16:12

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0279-03 A 02

Preparation Batch: BJD0686

Sample Size: 25 mL (wet)

Prepared: 04/29/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.111	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0257	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2021 16:32

SO-TC-207C-042621
21D0279-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/26/2021 09:35

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/29/2021 13:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0279-03 A 01

Preparation Batch: BJD0699

Sample Size: 20.01 g (wet)

Prepared: 04/29/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.46	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2021 16:32

TCLP Metals and Metallic Compounds - Quality Control

Batch BJD0686 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJD0686-BLK1)						Prepared: 29-Apr-2021 Analyzed: 29-Apr-2021 15:28					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BJD0686-DUP1)						Source: 21D0279-01 Prepared: 29-Apr-2021 Analyzed: 29-Apr-2021 15:47					
Arsenic	0.232	0.0140	0.250	mg/L		0.184			23.30	20	L, J
Lead	0.0173	0.0065	0.100	mg/L		0.0215			21.70	20	*, J
Matrix Spike (BJD0686-MS1)						Source: 21D0279-01 Prepared: 29-Apr-2021 Analyzed: 29-Apr-2021 15:53					
Arsenic	4.39	0.0140	0.250	mg/L	4.00	0.184	105	75-125			
Lead	3.88	0.0065	0.100	mg/L	4.00	0.0215	96.4	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2021 16:32

Wet Chemistry - Quality Control

Batch BJD0699 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BJD0699-BS1)						Prepared: 29-Apr-2021 Analyzed: 29-Apr-2021 13:30					
pH	6.98	0.01	0.01	pH Units	7.00		99.7	99.2-100.8			
Duplicate (BJD0699-DUP1)						Source: 21D0279-01 Prepared: 29-Apr-2021 Analyzed: 29-Apr-2021 13:30					
pH	9.42	0.01	0.01	pH Units		9.39			0.32	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2021 16:32

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2021 16:32

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

05 May 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21D0294

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed
by Shelly Fishel
Date: 2021.05.05
08:21:23 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2021 08:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-208A-042721	21D0294-01	Solid	27-Apr-2021 14:35	28-Apr-2021 16:43
SO-TC-208B-042721	21D0294-02	Solid	27-Apr-2021 14:45	28-Apr-2021 16:43
SO-TC-208C-042721	21D0294-03	Solid	27-Apr-2021 14:55	28-Apr-2021 16:43



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2021 08:18

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21D0294

Sample receipt

Samples as listed on the preceding page were received 28-Apr-2021 16:43 under ARI work order 21D0294. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 21D0294-01 in batch BJD0728. The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 2100294

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1643

23.7

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO-5206

Cooler Accepted by: JS Date: 04/27/2021 Time: 1643

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JS Date: 04/28/2021 Time: 1321 Labels checked by: TS

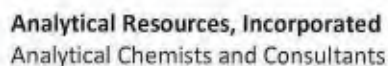
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

Completed by: JBW Date: 04/27/2001 Time: 1643
00070F Cooler Temperature Compliance Form Ver



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2021 08:18

SO-TC-208A-042721
21D0294-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/27/2021 14:35

Instrument: ICP2 Analyst: SKD

Analyzed: 05/03/2021 15:23

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0294-01 A 02

Preparation Batch: BJD0728

Sample Size: 25 mL (wet)

Prepared: 05/03/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.475	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0114	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2021 08:18

SO-TC-208A-042721
21D0294-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/27/2021 14:35

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/29/2021 13:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0294-01 A

Preparation Batch: BJD0699

Sample Size: 20.02 g (wet)

Prepared: 04/29/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.69	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2021 08:18

SO-TC-208B-042721
21D0294-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/27/2021 14:45

Instrument: ICP2 Analyst: SKD

Analyzed: 05/03/2021 15:14

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0294-02 A 02

Preparation Batch: BJD0728

Sample Size: 25 mL (wet)

Prepared: 05/03/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.208	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2021 08:18

SO-TC-208B-042721
21D0294-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/27/2021 14:45

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/29/2021 13:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0294-02 A

Preparation Batch: BJD0699

Sample Size: 20.12 g (wet)

Prepared: 04/29/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.66	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2021 08:18

SO-TC-208C-042721
21D0294-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/27/2021 14:55

Instrument: ICP2 Analyst: SKD

Analyzed: 05/03/2021 15:17

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21D0294-03 A 02

Preparation Batch: BJD0728

Sample Size: 25 mL (wet)

Prepared: 05/03/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0348	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2021 08:18

SO-TC-208C-042721
21D0294-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/27/2021 14:55

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/29/2021 13:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21D0294-03 A

Preparation Batch: BJD0699

Sample Size: 20.09 g (wet)

Prepared: 04/29/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.62	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2021 08:18

TCLP Metals and Metallic Compounds - Quality Control

Batch BJD0728 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJD0728-BLK1)						Prepared: 03-May-2021 Analyzed: 03-May-2021 15:11					
Arsenic	0.0228	0.0140	0.250	mg/L							J
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BJD0728-DUP1)						Source: 21D0294-01 Prepared: 03-May-2021 Analyzed: 03-May-2021 15:20					
Arsenic	0.485	0.0140	0.250	mg/L		0.475			2.18	20	
Lead	0.0111	0.0065	0.100	mg/L		0.0114			2.34	20	J
Matrix Spike (BJD0728-MS1)						Source: 21D0294-01 Prepared: 03-May-2021 Analyzed: 03-May-2021 15:26					
Arsenic	4.63	0.0140	0.250	mg/L	4.00	0.475	104	75-125			
Lead	3.89	0.0065	0.100	mg/L	4.00	0.0114	96.9	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2021 08:18

Wet Chemistry - Quality Control

Batch BJD0699 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BJD0699-BS1)					Prepared: 29-Apr-2021 Analyzed: 29-Apr-2021 13:30					
pH	6.98	0.01	0.01	pH Units	7.00	99.7	99.2-100.8			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2021 08:18

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-May-2021 08:18

Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Four data packages for your review and approval

From David Bosch <DBosch@tpchd.org>
Date Mon 5/24/2021 11:25 AM
To Jeff King <jking@perc-nw.com>
Cc kking perc-nw.com <kking@perc-nw.com>

Jeff,

The Tacoma-Pierce County Health Department has reviewed the four data sets dated May 11, May 12, May 14, and May 21, 2021. The soils associated these waste characterizations are acceptable for disposal at the LRI Landfill.

And, for your information, my last day with the Health Department is May 26th. So, please forward future soil approvals to our Solid Waste Program website: ehsolidwaste@tpchd.org
Someone will be able to help you.

Thank you.

David Bosch

Environmental Health Specialist III
Environmental Health
(253) 405-8599 c • dbosch@tpchd.org
(253) 649-1841 o • www.tpchd.org



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COVID-19 is affecting our work.

Your health and our staff's health are our top priorities. Many of our staff are responding to the outbreak and others are working remotely to serve your needs. You will likely experience slower-than-normal response times for requests not related to COVID-19.

Many of our services are available online.

For more information, please [read our blog](#) or visit tpchd.org.

From: Jeff King <jking@perc-nw.com>
Sent: Sunday, May 23, 2021 6:47 AM
To: David Bosch <DBosch@tpchd.org>
Cc: kking perc-nw.com <kking@perc-nw.com>
Subject: Four data packages for your review and approval

CAUTION: External Email

David:

Attached are four data packages for your review and approval. Each sample represents approximately 23 CY of soil.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-209A-05-042	ND	0.0165	9.22	Asking for approval
SO-TC-209B-05-042	0.0245	0.0158	9.32	Asking for approval
SO-TC-209C-05-042	ND	0.0183	9.31	Asking for approval
SO-TC-210A-050321	ND	0.0444	8.01	Asking for approval
SO-TC-211A-051021	0.0178	0.0209	9.52	Asking for approval
SO-TC-211B-051021	ND	0.0141	9.38	Asking for approval
SO-TC-211C-051021	ND	0.0117	9.45	Asking for approval
SO-TC-212A-051321	0.0267	0.0249	9.32	Asking for approval
SO-TC-212B-051321	ND	0.0267	9.29	Asking for approval
SO-TC-212C-051321	ND	0.059	9.3	Asking for approval

Thank you
Jeff

Jeffrey D. King, P.G./L.G.

Principal Geologist/President

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

United States of America

425-238-2212

jking@perc-nw.com

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

12 May 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21E0037

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2021.05.12
12:38:55 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 21E 0037		Turn-around Requested: 3 days			Date: 5/4/2021		
ARI Client Company: PERC		Phone: 425-346-0921			Page: of		
Client Contact: Kenny King		No. of Coolers: 0		Cooler Temps: 22.2			
Client Project Name: Superlon Plastics					Analysis Requested		
Client Project #: SLON		Samplers: King			Notes/Comments		
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C	
SO-TC-209A-050421	05/04/21	08:00	Soil	1	✓	✓	
SO-TC-209B-050421	05/04/21	08:10	Soil	1	✓	✓	
SO-TC-209C-050421	05/04/21	08:20	Soil	1	✓	✓	
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>[Signature]</i>		Relinquished by: (Signature)	
		Printed Name: Kenny King		Printed Name: Kenny Dang		Printed Name:	
		Company: PERC		Company: ARI		Company:	
		Date & Time: 5/4/21 16:45		Date & Time: 5/4/21 1645		Date & Time:	



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-May-2021 12:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-209A-05-0421	21E0037-01	Solid	04-May-2021 08:00	04-May-2021 16:45
SO-TC-209B-05-0421	21E0037-02	Solid	04-May-2021 08:10	04-May-2021 16:45
SO-TC-209C-05-0421	21E0037-03	Solid	04-May-2021 08:20	04-May-2021 16:45



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-May-2021 12:32

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21E0037

Sample receipt

Samples as listed on the preceding page were received 04-May-2021 16:45 under ARI work order 21E0037. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 21E0037-01 in batch BJE0246. The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Supervlon Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 21E0037

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1645 22.2

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: KD Date: 5/14/21 Time: 1645

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: KD Date: 5/14/21 Time: 1700 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-May-2021 12:32

SO-TC-209A-05-0421
21E0037-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/04/2021 08:00

Instrument: ICP2 Analyst: SKD

Analyzed: 05/11/2021 16:29

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21E0037-01 A 02

Preparation Batch: BJE0246

Sample Size: 25 mL (wet)

Prepared: 05/11/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0165	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-May-2021 12:32

SO-TC-209A-05-0421
21E0037-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/04/2021 08:00

Instrument: Accumet AB150 Analyst: UW

Analyzed: 05/05/2021 13:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21E0037-01 A

Preparation Batch: BJE0095

Sample Size: 20 g (wet)

Prepared: 05/05/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.22	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-May-2021 12:32

SO-TC-209B-05-0421
21E0037-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/04/2021 08:10

Instrument: ICP2 Analyst: SKD

Analyzed: 05/11/2021 16:20

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21E0037-02 A 02

Preparation Batch: BJE0246

Sample Size: 25 mL (wet)

Prepared: 05/11/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0245	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0158	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-May-2021 12:32

SO-TC-209B-05-0421
21E0037-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/04/2021 08:10

Instrument: Accumet AB150 Analyst: UW

Analyzed: 05/05/2021 13:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21E0037-02 A

Preparation Batch: BJE0095

Sample Size: 20 g (wet)

Prepared: 05/05/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.32	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-May-2021 12:32

SO-TC-209C-05-0421
21E0037-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/04/2021 08:20

Instrument: ICP2 Analyst: SKD

Analyzed: 05/11/2021 16:23

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21E0037-03 A 02

Preparation Batch: BJE0246

Sample Size: 25 mL (wet)

Prepared: 05/11/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0183	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-May-2021 12:32

SO-TC-209C-05-0421
21E0037-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/04/2021 08:20

Instrument: Accumet AB150 Analyst: UW

Analyzed: 05/05/2021 13:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21E0037-03 A

Preparation Batch: BJE0095

Sample Size: 20 g (wet)

Prepared: 05/05/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.31	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-May-2021 12:32

TCLP Metals and Metallic Compounds - Quality Control

Batch BJE0246 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJE0246-BLK1)						Prepared: 11-May-2021 Analyzed: 11-May-2021 16:15					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	0.0072	0.0065	0.100	mg/L							J
Duplicate (BJE0246-DUP1)						Source: 21E0037-01 Prepared: 11-May-2021 Analyzed: 11-May-2021 16:26					
Arsenic	ND	0.0140	0.250	mg/L		ND					U
Lead	0.0198	0.0065	0.100	mg/L		0.0165			18.10	20	J
Matrix Spike (BJE0246-MS1)						Source: 21E0037-01 Prepared: 11-May-2021 Analyzed: 11-May-2021 16:32					
Arsenic	3.90	0.0140	0.250	mg/L	4.00	ND	97.4	75-125			
Lead	3.61	0.0065	0.100	mg/L	4.00	0.0165	89.8	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-May-2021 12:32

Wet Chemistry - Quality Control

Batch BJE0095 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BJE0095-BS1)					Prepared: 05-May-2021 Analyzed: 05-May-2021 13:25				
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-May-2021 12:32

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-May-2021 12:32

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

11 May 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21E0038

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2021.05.11
12:03:39 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: <u>21E0038</u>		Turn-around Requested: <u>3 days</u>		Date: <u>5/4/2021</u>									
ARI Client Company: <u>PERC</u>		Phone: <u>425-346-0921</u>		Page: <u>of</u>									
Client Contact: <u>Kenny King</u>		No. of Coolers: <u>0</u>		Cooler Temps: <u>22.2</u>									
Client Project Name: <u>Superlon Plastics</u>		Analysis Requested				Notes/Comments							
Client Project #: <u>SLON</u>							Samplers: <u>King</u>						
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C							
SO-TC-210A-050321	05/03/21	08:05	Soil	1	✓	✓							
Comments/Special Instructions		Relinquished by:		Received by:		Relinquished by:		Received by:					
		(Signature) <u>Kenny King</u>		(Signature)		(Signature)		(Signature)					
		Printed Name:		Printed Name:		Printed Name:		Printed Name:					
		<u>Kenny King</u>											
Company:		Company:		Company:		Company:		Company:					
<u>PERC</u>													
Date & Time:		Date & Time:		Date & Time:		Date & Time:		Date & Time:					
<u>5/4/21 16:45</u>		<u>5/4/21 1645</u>											



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2021 12:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-210A-050321	21E0038-01	Solid	03-May-2021 08:05	04-May-2021 16:45



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2021 12:00

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21E0038

Sample receipt

One sample as listed on the preceding page was received 04-May-2021 16:45 under ARI work order 21E0038. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

COC No(s): 21E0038 NA

Assigned ARI Job No: 21E0038

Project Name: Superlon Plastics

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1645

22.2

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: KD

Date: 5/4/21

Time: 1645

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

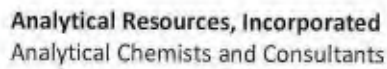
Samples Logged by: KD Date: 5/4/21 Time: 1708 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: RD Date: 5/4/21 Time: 1643

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2021 12:00

SO-TC-210A-050321
21E0038-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010C

Sampled: 05/03/2021 08:05

Instrument: ICP2 Analyst: SKD

Analyzed: 05/06/2021 17:46

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21E0038-01 A 02

Preparation Batch: BJE0126

Sample Size: 25 mL (wet)

Prepared: 05/06/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0230	0.250	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2021 12:00

SO-TC-210A-050321
21E0038-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/03/2021 08:05

Instrument: ICP2 Analyst: SKD

Analyzed: 05/06/2021 17:46

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21E0038-01 A 02

Preparation Batch: BJE0126

Sample Size: 25 mL (wet)

Prepared: 05/06/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Lead	7439-92-1	5	0.0065	0.100	0.0444	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2021 12:00

SO-TC-210A-050321
21E0038-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/03/2021 08:05

Instrument: Accumet AB150 Analyst: UW

Analyzed: 05/05/2021 13:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21E0038-01 A

Preparation Batch: BJE0095

Sample Size: 20 g (wet)

Prepared: 05/05/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.01	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2021 12:00

TCLP Metals and Metallic Compounds - Quality Control

Batch BJE0126 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BJE0126-BLK1)					Prepared: 06-May-2021 Analyzed: 06-May-2021 17:43				
Arsenic	ND	0.0230	0.250	mg/L					U
Lead	0.0109	0.0065	0.100	mg/L					J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2021 12:00

Wet Chemistry - Quality Control

Batch BJE0095 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BJE0095-BS1)					Prepared: 05-May-2021 Analyzed: 05-May-2021 13:25				
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2021 12:00

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Solid	
Arsenic	CALAP,NELAP,WADOE
Arsenic	CALAP,NELAP
Arsenic	CALAP,WADOE
Arsenic	NELAP,WADOE
EPA 6010D in Solid	
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
Lead	WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,CALAP,DoD-ELAP,NELAP
pH	CALAP,DoD-ELAP,NELAP
pH	WADOE,CALAP,DoD-ELAP
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-May-2021 12:00

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

14 May 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21E0124

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Page 2 of 18 21E0124 ARISample FINAL 14 May 2021 1508



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-May-2021 15:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-211A-051021	21E0124-01	Solid	10-May-2021 13:10	10-May-2021 16:40
SO-TC-211B-051021	21E0124-02	Solid	10-May-2021 13:20	10-May-2021 16:40
SO-TC-211C-051021	21E0124-03	Solid	10-May-2021 13:30	10-May-2021 16:40



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-May-2021 15:08

Work Order Case Narrative

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The sample duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 21E0124

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1640

22.9

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JS Date: 05/10/21 Time: 1640

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: SC Date: 4/11/21 Time: 0816 Labels checked by: SC

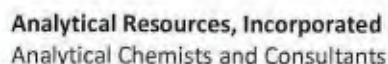
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

Completed by: SSA Date: 05/10/201 Time: 1640

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-May-2021 15:08

SO-TC-211A-051021
21E0124-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/10/2021 13:10

Instrument: ICP2 Analyst: MVP

Analyzed: 05/13/2021 17:59

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21E0124-01 A 02

Preparation Batch: BJE0325

Sample Size: 25 mL (wet)

Prepared: 05/13/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0178	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0209	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-May-2021 15:08

SO-TC-211A-051021
21E0124-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/10/2021 13:10

Instrument: Accumet AB150 Analyst: BF

Analyzed: 05/13/2021 16:44

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21E0124-01 A

Preparation Batch: BJE0342

Sample Size: 20.12 g (wet)

Prepared: 05/13/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.52	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-May-2021 15:08

SO-TC-211B-051021
21E0124-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/10/2021 13:20

Instrument: ICP2 Analyst: MVP

Analyzed: 05/13/2021 18:02

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21E0124-02 A 02

Preparation Batch: BJE0325

Sample Size: 25 mL (wet)

Prepared: 05/13/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0141	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-May-2021 15:08

SO-TC-211B-051021
21E0124-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/10/2021 13:20

Instrument: Accumet AB150 Analyst: BF

Analyzed: 05/13/2021 16:44

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21E0124-02 A

Preparation Batch: BJE0342

Sample Size: 20.5 g (wet)

Prepared: 05/13/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.38	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-May-2021 15:08

SO-TC-211C-051021
21E0124-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/10/2021 13:30

Instrument: ICP2 Analyst: MVP

Analyzed: 05/13/2021 18:05

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21E0124-03 A 02

Preparation Batch: BJE0325

Sample Size: 25 mL (wet)

Prepared: 05/13/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0117	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-May-2021 15:08

SO-TC-211C-051021
21E0124-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/10/2021 13:30

Instrument: Accumet AB150 Analyst: BF

Analyzed: 05/13/2021 16:44

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21E0124-03 A

Preparation Batch: BJE0342

Sample Size: 20.35 g (wet)

Prepared: 05/13/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.45	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-May-2021 15:08

TCLP Metals and Metallic Compounds - Quality Control

Batch BJE0325 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Blank (BJE0325-BLK1)					Prepared: 13-May-2021 Analyzed: 13-May-2021 17:46				
Arsenic	ND	0.0140	0.250	mg/L					U
Lead	ND	0.0065	0.100	mg/L					U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-May-2021 15:08

Wet Chemistry - Quality Control

Batch BJE0342 - EPA 9045D

Instrument: Accumet AB150 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BJE0342-BS1)						Prepared: 13-May-2021 Analyzed: 13-May-2021 16:44					
pH	6.98	0.01	0.01	pH Units	7.00		99.7	99.2-100.8			
Duplicate (BJE0342-DUP1)						Source: 21E0124-01 Prepared: 13-May-2021 Analyzed: 13-May-2021 16:44					
pH	9.43	0.01	0.01	pH Units		9.52			0.95	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-May-2021 15:08

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Arsenic	NELAP
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP
pH	DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-May-2021 15:08

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

21 May 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21E0165

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: **21E0165** Turn-around Requested: **3 day**

ARI Client Company: **PERC** Phone: **4253460921**

Client Contact: **Kenny King**

Client Project Name: **Superlon Plastics**

Client Project #: **SLON** Samplers: **King**

Sample ID Date Time Matrix No. Containers

SO-TC-212A-051321 05/13/21 10:00 Soil 1

SO-TC-212B-051321 05/13/21 10:15 Soil 1

SO-TC-212C-051321 05/13/21 10:26 Soil 1

Comments/Special Instructions Relinquished by: (Signature) **[Signature]** Received by: (Signature) **[Signature]**

Printed Name: **JEFF KING** Printed Name: **Jacob Walter**

Company: **PERC** Company: **ARI**

Date & Time: **5/13/21 2:56** Date & Time: **05/13/2021 1456**

Date: **5/13/21**

Page: **of**

No. of Coolers: **8** Cooler Temps: **28.4**

Analysis Requested

TCLP - As & Pb pH 9045C



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2021 16:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-212A-051321	21E0165-01	Solid	13-May-2021 10:00	13-May-2021 14:56
SO-TC-212B-051321	21E0165-02	Solid	13-May-2021 10:15	13-May-2021 14:56
SO-TC-212C-051321	21E0165-03	Solid	13-May-2021 10:26	13-May-2021 14:56



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2021 16:57

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21E0165

Sample receipt

Samples as listed on the preceding page were received 13-May-2021 14:56 under ARI work order 21E0165. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 21E0165-01 in batch BJE0427. The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 21E0165-01 in batch BJE0425. The duplicate (DUP) relative percent difference (RPD) and the matrix spike (MS) percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): 21E0165 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 21E0165

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1456

28.4

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 006

Cooler Accepted by: JS Date: 05/13/21 Time: 1456

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? NA YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

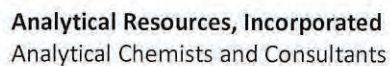
Samples Logged by: PL Date: 05/13/21 Time: 1532 Labels checked by: +532 KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



ARI Work Order: 21E0165

[illegible][illegible][illegible][illegible]

Completed by: JB Date: 05/17/2021 Time: 1456

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2021 16:57

SO-TC-212A-051321
21E0165-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/13/2021 10:00

Instrument: ICP2 Analyst: MVP

Analyzed: 05/19/2021 14:59

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21E0165-01 A 02

Preparation Batch: BJE0425

Sample Size: 25 mL (wet)

Prepared: 05/19/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0267	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0249	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2021 16:57

SO-TC-212A-051321
21E0165-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/13/2021 10:00

Instrument: Accumet AB150 Analyst: UW

Analyzed: 05/18/2021 14:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21E0165-01 A 01

Preparation Batch: BJE0427

Sample Size: 20.11 g (wet)

Prepared: 05/18/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.32	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2021 16:57

SO-TC-212B-051321
21E0165-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/13/2021 10:15

Instrument: ICP2 Analyst: MVP

Analyzed: 05/19/2021 14:50

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21E0165-02 A 02

Preparation Batch: BJE0425

Sample Size: 25 mL (wet)

Prepared: 05/19/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0267	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2021 16:57

SO-TC-212B-051321
21E0165-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/13/2021 10:15

Instrument: Accumet AB150 Analyst: UW

Analyzed: 05/18/2021 14:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21E0165-02 A 01

Preparation Batch: BJE0427

Sample Size: 20.22 g (wet)

Prepared: 05/18/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.29	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2021 16:57

SO-TC-212C-051321
21E0165-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/13/2021 10:26

Instrument: ICP2 Analyst: MVP

Analyzed: 05/19/2021 14:53

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21E0165-03 A 02

Preparation Batch: BJE0425

Sample Size: 25 mL (wet)

Prepared: 05/19/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0590	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2021 16:57

SO-TC-212C-051321
21E0165-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/13/2021 10:26

Instrument: Accumet AB150 Analyst: UW

Analyzed: 05/18/2021 14:25

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21E0165-03 A 01

Preparation Batch: BJE0427

Sample Size: 20.09 g (wet)

Prepared: 05/18/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.30	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2021 16:57

TCLP Metals and Metallic Compounds - Quality Control

Batch BJE0425 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJE0425-BLK1)						Prepared: 19-May-2021 Analyzed: 19-May-2021 14:47					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BJE0425-DUP1)						Source: 21E0165-01 Prepared: 19-May-2021 Analyzed: 19-May-2021 14:56					
Arsenic	0.0384	0.0140	0.250	mg/L		0.0267			36.00	20	L, J
Lead	0.0320	0.0065	0.100	mg/L		0.0249			24.90	20	L, J
Matrix Spike (BJE0425-MS1)						Source: 21E0165-01 Prepared: 19-May-2021 Analyzed: 19-May-2021 15:02					
Arsenic	3.86	0.0140	0.250	mg/L	4.00	0.0267	95.9	75-125			
Lead	3.55	0.0065	0.100	mg/L	4.00	0.0249	88.1	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2021 16:57

Wet Chemistry - Quality Control

Batch BJE0427 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BJE0427-BS1)						Prepared: 18-May-2021	Analyzed: 18-May-2021 14:25				
pH	6.97	0.01	0.01	pH Units	7.00		99.6	99.2-100.8			
Duplicate (BJE0427-DUP1)						Source: 21E0165-01	Prepared: 18-May-2021	Analyzed: 18-May-2021 14:25			
pH	9.29	0.01	0.01	pH Units		9.32			0.32	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2021 16:57

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Arsenic	NELAP
Lead	NELAP,WADOE,DoD-ELAP
Lead	NELAP,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP
pH	DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-May-2021 16:57

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Outlook

RE: Four data packages for your review and approval

From Keith Johnston <KJohnston@tpchd.org>**Date** Mon 8/9/2021 11:51 AM**To** 'JEFFREY KING' <jking@perc-nw.com>**Cc** EH SolidWaste <EHSolidWaste@tpchd.org>; kking perc-nw.com <kking@perc-nw.com>; Dana Haugen (danah@wcnx.org) <danah@wcnx.org>; Jeff Bishop <JeffBis@WasteConnections.com>; Maria F (MariaF@wcnx.org) <MariaF@wcnx.org>; Mr George Duvendack (GeorgeD@WasteConnections.com) <GeorgeD@WasteConnections.com>; Olivier Moi <OlivierA@WasteConnections.com>; Rebecca Gunter (RebeccaG@wcnx.org) <RebeccaG@wcnx.org>; Robin Henne (robinhe@wcnx.org) <robinhe@wcnx.org>; Ryan Roth <ryan.roth@wasteconnections.com>; Tiffany Helm <tiffany.helm@wasteconnections.com>

4 attachments (5 MB)

21G0275 ARISample FINAL 04 Aug 2021 1248.pdf; 21G0337 ARISample FINAL 04 Aug 2021 1635.pdf; 21G0338 ARISample FINAL 04 Aug 2021 1641.pdf; 21G0365 ARISample FINAL 06 Aug 2021 1712.pdf;

Hi Jeffrey,

I have reviewed the sample results and these soils are acceptable for disposal under WDA 2526R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management

Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org(253) 649-1840 o • www.tpchd.org[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)**We're open to serve you!**We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>**Sent:** Monday, August 9, 2021 11:35 AM**To:** Keith Johnston <KJohnston@tpchd.org>**Cc:** EH SolidWaste <EHSolidWaste@tpchd.org>; 'kking@perc-nw.com' <kking@perc-nw.com>**Subject:** Four data packages for your review and approval

CAUTION: External Email

Keith:

Attached are four data packages for your review and approval. The soils that the analysis represents are from the Superlon Plastics site (WDA Permit number 2526R). Each sample represents approximately 23 CY of soil. The following table lists the results.

Please let me know if you have any questions.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-214A-072221	0.6	ND	9.04	Asking for approval
SO-TC-214B-072221	0.486	0.0347	8.95	Asking for approval
SO-TC-214C-072221	0.158	0.0194	8.51	Asking for approval
SO-TC-215A-072221	1.19	0.0152	9.43	Asking for approval
SO-TC-215B-072221	0.398	ND	9.44	Asking for approval
SO-TC-215C-072221	0.122	ND	9.35	Asking for approval
SO-TC-216A-072721	ND	ND	9.18	Asking for approval
SO-TC-216B-072721	ND	0.008	9.3	Asking for approval
SO-TC-216C-072721	0.0312	ND	9.4	Asking for approval
RAUB7-06-AB-072721	0.293	0.0901	6.21	Asking for approval
RAUB7-06-CD-072721	0.575	0.0921	6.93	Asking for approval
SO-RAUB7A1B1C1-06-a-072921	0.115	0.0936	6.11	Asking for approval
SO-RAUB7A1B1C1-06-b-072921	0.57	0.0778	6.51	Asking for approval
SO-RAUB7A1B1C1-06-cd-072921	0.65	0.0585	6.61	Asking for approval

Thank you.

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

PLEASE use this email address when communicating with me. My former email (jking@perc-nw.com) has been compromised.

This communication is for use by the intended recipient and contains information that may be privileged, confidential or copyrighted under applicable law. If you are not the intended recipient, you are hereby formally notified that any use, copying or distribution of this e-mail, in whole or in part, is strictly prohibited. Please notify the sender by return e-mail and delete this e-mail from your system. This e-mail does not constitute a consent to the use of sender's contact information for direct marketing purposes or for transfers of data to third parties. Thank you.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

04 August 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21G0275

Associated SDG ID(s)
N/A

Shelly Fishel
Digitally signed by Shelly
Fishel
Date: 2021.08.04 13:03:49
-07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 21G0275		Turn-around Requested: 3 DAY		Date: 7/22/21		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)				
ARI Client Company: PERC		Phone: 425.346.0921		Page: 1 of 1						
Client Contact: Kenny King				No. of Coolers: 13.2						
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments		
Client Project #: SLON		Samplers: King		TCLP 1311 (As/Pb)		pH 9045C				
Sample ID	Date	Time	Matrix	No. Containers						
SO-TC-214A-072221	07/22/21	11:25	Soil	1	✓	✓				
SO-TC-214B-072221	07/22/21	11:28	Soil	1	✓	✓				
SO-TC-214C-072221	07/22/21	11:32	Soil	1	✓	✓				
SO-TC-215A-072221	07/22/21	14:20	Soil	1	✓	✓				
SO-TC-215B-072221	07/22/21	14:24	Soil	1	✓	✓				
SO-TC-215C-072221	07/22/21	14:32	Soil	1	✓	✓				
Comments/Special Instructions					Relinquished by: (Signature) <i>[Signature]</i>		Received by: (Signature) <i>[Signature]</i>		Relinquished by: (Signature)	
					Printed Name: JEFF KING		Printed Name: Dimitri Lomazee		Printed Name:	
					Company: PERC		Company: ARI		Company:	
					Date & Time: 7/22/21 3:50		Date & Time: 07/22/21 15:50		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Aug-2021 12:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-214A-072221	21G0275-01	Solid	22-Jul-2021 11:25	22-Jul-2021 15:50
SO-TC-214B-072221	21G0275-02	Solid	22-Jul-2021 11:28	22-Jul-2021 15:50
SO-TC-214C-072221	21G0275-03	Solid	22-Jul-2021 11:32	22-Jul-2021 15:50
SO-TC-215A-072221	21G0275-04	Solid	22-Jul-2021 14:20	22-Jul-2021 15:50
SO-TC-215B-072221	21G0275-05	Solid	22-Jul-2021 14:24	22-Jul-2021 15:50
SO-TC-215C-072221	21G0275-06	Solid	22-Jul-2021 14:32	22-Jul-2021 15:50



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Aug-2021 12:48

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21G0275

Sample receipt

Samples as listed on the preceding page were received 22-Jul-2021 15:50 under ARI work order 21G0275. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 21G0275-01 in batch BJG0660. The duplicate (DUP) relative percent difference (RPD) and the matrix spike (MS) percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 2160075

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1530 132

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: DC Date: 07/22/21 Time: 1550

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? ... Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

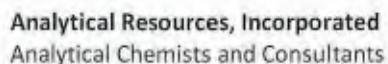
Samples Logged by: JS Date: 07/22/2021 Time: 1621 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: DL Date: 07/22/21 Time: 1550
00070F Cooler Temperature Compliance Form Ver



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Aug-2021 12:48

SO-TC-214A-072221
21G0275-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/22/2021 11:25

Instrument: ICP2 Analyst: MVP

Analyzed: 07/30/2021 12:47

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21G0275-01 A 02

Preparation Batch: BJG0660

Sample Size: 25 mL (wet)

Prepared: 07/28/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.600	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Aug-2021 12:48

SO-TC-214A-072221
21G0275-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/22/2021 11:25

Instrument: Accumet AB150 Analyst: UW

Analyzed: 07/23/2021 15:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21G0275-01 A

Preparation Batch: BJJ0579

Sample Size: 20 g (wet)

Prepared: 07/23/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.04	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Aug-2021 12:48

SO-TC-214B-072221
21G0275-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/22/2021 11:28

Instrument: ICP2 Analyst: MVP

Analyzed: 07/29/2021 14:36

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21G0275-02 A 02

Preparation Batch: BJG0660

Sample Size: 25 mL (wet)

Prepared: 07/28/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.486	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0347	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Aug-2021 12:48

SO-TC-214B-072221
21G0275-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/22/2021 11:28

Instrument: Accumet AB150 Analyst: UW

Analyzed: 07/23/2021 15:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21G0275-02 A

Preparation Batch: BJG0579

Sample Size: 20 g (wet)

Prepared: 07/23/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.95	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Aug-2021 12:48

SO-TC-214C-072221
21G0275-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/22/2021 11:32

Instrument: ICP2 Analyst: MVP

Analyzed: 07/29/2021 14:39

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21G0275-03 A 02

Preparation Batch: BJG0660

Sample Size: 25 mL (wet)

Prepared: 07/28/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.158	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0194	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Aug-2021 12:48

SO-TC-214C-072221
21G0275-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/22/2021 11:32

Instrument: Accumet AB150 Analyst: UW

Analyzed: 07/23/2021 15:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21G0275-03 A

Preparation Batch: BJG0579

Sample Size: 20 g (wet)

Prepared: 07/23/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.51	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Aug-2021 12:48

SO-TC-215A-072221
21G0275-04 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/22/2021 14:20

Instrument: ICP2 Analyst: MVP

Analyzed: 07/29/2021 14:42

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21G0275-04 A 02

Preparation Batch: BJG0660

Sample Size: 25 mL (wet)

Prepared: 07/28/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	1.19	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0152	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Aug-2021 12:48

SO-TC-215A-072221
21G0275-04 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/22/2021 14:20

Instrument: Accumet AB150 Analyst: UW

Analyzed: 07/23/2021 15:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21G0275-04 A

Preparation Batch: BJG0579

Sample Size: 20 g (wet)

Prepared: 07/23/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.43	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Aug-2021 12:48

SO-TC-215B-072221
21G0275-05 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/22/2021 14:24

Instrument: ICP2 Analyst: MVP

Analyzed: 07/29/2021 14:45

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21G0275-05 A 02

Preparation Batch: BJG0660

Sample Size: 25 mL (wet)

Prepared: 07/28/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.398	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Aug-2021 12:48

SO-TC-215B-072221
21G0275-05 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/22/2021 14:24

Instrument: Accumet AB150 Analyst: UW

Analyzed: 07/23/2021 15:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21G0275-05 A

Preparation Batch: BJJ0579

Sample Size: 20 g (wet)

Prepared: 07/23/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.44	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Reported:
04-Aug-2021 12:48

SO-TC-215C-072221
21G0275-06 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/22/2021 14:32

Instrument: ICP2 Analyst: MVP

Analyzed: 07/29/2021 14:48

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21G0275-06 A 02

Preparation Batch: BJG0660

Sample Size: 25 mL (wet)

Prepared: 07/28/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.122	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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Reported:
04-Aug-2021 12:48

SO-TC-215C-072221
21G0275-06 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/22/2021 14:32

Instrument: Accumet AB150 Analyst: UW

Analyzed: 07/23/2021 15:00

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21G0275-06 A

Preparation Batch: BJG0579

Sample Size: 20 g (wet)

Prepared: 07/23/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.35	pH Units	



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Project: Superlon Plastics
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Reported:
04-Aug-2021 12:48

TCLP Metals and Metallic Compounds - Quality Control

Batch BJG0660 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJG0660-BLK1)						Prepared: 28-Jul-2021 Analyzed: 29-Jul-2021 13:46					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BJG0660-DUP1)						Source: 21G0275-01 Prepared: 28-Jul-2021 Analyzed: 30-Jul-2021 12:44					
Arsenic	0.567	0.0140	0.250	mg/L		0.600			5.58	20	
Lead	0.0073	0.0065	0.100	mg/L		ND					J
Matrix Spike (BJG0660-MS1)						Source: 21G0275-01 Prepared: 28-Jul-2021 Analyzed: 30-Jul-2021 12:50					
Arsenic	4.79	0.0140	0.250	mg/L	4.00	0.600	105	75-125			
Lead	3.92	0.0065	0.100	mg/L	4.00	ND	97.9	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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Reported:
04-Aug-2021 12:48

Wet Chemistry - Quality Control

Batch BJG0579 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BJG0579-BS1)						Prepared: 23-Jul-2021 Analyzed: 23-Jul-2021 15:00					
pH	6.97	0.01	0.01	pH Units	7.00		99.6	99.2-100.8			



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Reported:
04-Aug-2021 12:48

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



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Project: Superlon Plastics
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Reported:
04-Aug-2021 12:48

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

04 August 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21G0337

Associated SDG ID(s)
N/A

Digitally signed by Shelly
Fishel
Date: 2021.08.04
16:36:48 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2160337		Turn-around Requested: 3 Day		Date: 7/27/2021		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 425-346-0921		Page: of					
Client Contact: Kenny King		No. of Coolers: 1		Cooler Temps: 32-1					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King							
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045c			
SO-TC-216A-072721	07/27/21	14:30	Soil	1	✓	✓			
SO-TC-216B-072721	07/27/21	14:45	Soil	1	✓	✓			
SO-TC-216C-072721	07/27/21	15:00	Soil	1	✓	✓			
Comments/Special Instructions		Relinquished by:		Received by:		Relinquished by:		Received by:	
		(Signature) <i>Kenny King</i>		(Signature) <i>Sumanthu Colson</i>		(Signature)		(Signature)	
		Printed Name: Kenny King		Printed Name: Sumanthu Colson		Printed Name:		Printed Name:	
		Company: PERC		Company: ARI		Company:		Company:	
Date & Time: 7/27/2021 16:45		Date & Time: 7/27/21 1645		Date & Time:		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Aug-2021 16:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-216A-072721	21G0337-01	Solid	27-Jul-2021 14:30	27-Jul-2021 16:45
SO-TC-216B-072721	21G0337-02	Solid	27-Jul-2021 14:45	27-Jul-2021 16:45
SO-TC-216C-072721	21G0337-03	Solid	27-Jul-2021 15:00	27-Jul-2021 16:45



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Aug-2021 16:35

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21G0337

Sample receipt

Samples as listed on the preceding page were received 27-Jul-2021 16:45 under ARI work order 21G0337. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 21G0337-01 in batch BJH0012. The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 21G0337-01 in batch BJG0736. The duplicate (DUP) relative percent difference (RPD) were within advisory control limits. The matrix spike (MS) percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 2160337

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1645 32.1

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO5206

Cooler Accepted by: SC Date: 7/27/21 Time: 1645

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

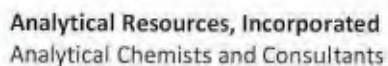
Samples Logged by: JS Date: 07/27/2021 Time: 1658 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Aug-2021 16:35

SO-TC-216A-072721
21G0337-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/27/2021 14:30

Instrument: ICP2 Analyst: MVP

Analyzed: 08/03/2021 14:47

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21G0337-01 A 01

Preparation Batch: BJG0736

Sample Size: 25 mL (wet)

Prepared: 07/30/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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Reported:
04-Aug-2021 16:35

SO-TC-216A-072721
21G0337-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/27/2021 14:30

Instrument: Accumet AB150 Analyst: UW

Analyzed: 08/02/2021 14:20

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21G0337-01 A 01

Preparation Batch: BJH0012

Sample Size: 20.05 g (wet)

Prepared: 08/02/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.18	pH Units	



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Reported:
04-Aug-2021 16:35

SO-TC-216B-072721
21G0337-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/27/2021 14:45

Instrument: ICP2 Analyst: MVP

Analyzed: 08/03/2021 14:54

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21G0337-02 A 01

Preparation Batch: BJG0736

Sample Size: 25 mL (wet)

Prepared: 07/30/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0080	mg/L	J



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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Aug-2021 16:35

SO-TC-216B-072721
21G0337-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/27/2021 14:45

Instrument: Accumet AB150 Analyst: UW

Analyzed: 08/02/2021 14:20

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21G0337-02 A 01

Preparation Batch: BJH0012

Sample Size: 20.01 g (wet)

Prepared: 08/02/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.30	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Reported:
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SO-TC-216C-072721
21G0337-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/27/2021 15:00

Instrument: ICP2 Analyst: MVP

Analyzed: 08/03/2021 15:03

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21G0337-03 A 01

Preparation Batch: BJG0736

Sample Size: 25 mL (wet)

Prepared: 07/30/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0312	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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Reported:
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SO-TC-216C-072721
21G0337-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/27/2021 15:00

Instrument: Accumet AB150 Analyst: UW

Analyzed: 08/02/2021 14:20

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21G0337-03 A 01

Preparation Batch: BJH0012

Sample Size: 20.02 g (wet)

Prepared: 08/02/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.40	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Aug-2021 16:35

TCLP Metals and Metallic Compounds - Quality Control

Batch BJG0736 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJG0736-BLK1)						Prepared: 30-Jul-2021 Analyzed: 03-Aug-2021 14:36					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BJG0736-DUP1)						Source: 21G0337-01 Prepared: 30-Jul-2021 Analyzed: 03-Aug-2021 14:44					
Arsenic	ND	0.0140	0.250	mg/L		ND					U
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BJG0736-MS1)						Source: 21G0337-01 Prepared: 30-Jul-2021 Analyzed: 03-Aug-2021 14:49					
Arsenic	4.03	0.0140	0.250	mg/L	4.00	ND	101	75-125			
Lead	3.75	0.0065	0.100	mg/L	4.00	ND	93.6	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
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Reported:
04-Aug-2021 16:35

Wet Chemistry - Quality Control

Batch BJH0012 - EPA 9045D

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BJH0012-BS1)						Prepared: 02-Aug-2021 Analyzed: 02-Aug-2021 14:20					
pH	7.00	0.01	0.01	pH Units	7.00		100	99.2-100.8			
Duplicate (BJH0012-DUP1)						Source: 21G0337-01 Prepared: 02-Aug-2021 Analyzed: 02-Aug-2021 14:20					
pH	9.19	0.01	0.01	pH Units		9.18			0.11	20	



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Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



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Reported:
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Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Outlook

FW: Two data packages for your review and approval

From Keith Johnston <KJohnston@tpchd.org>**Date** Mon 8/16/2021 9:07 AM**To** 'JEFFREY KING' <jking@perc-nw.com>**Cc** kking perc-nw.com <kking@perc-nw.com>; Dana Haugen (danah@wcnx.org) <danah@wcnx.org>; Jeff Bishop <JeffBis@WasteConnections.com>; Maria F (MariaF@wcnx.org) <MariaF@wcnx.org>; Mr George Duvendack (GeorgeD@WasteConnections.com) <GeorgeD@WasteConnections.com>; Olivier Moi <OlivierA@WasteConnections.com>; Rebecca Gunter (RebeccaG@wcnx.org) <RebeccaG@wcnx.org>; Robin Henne (robinhe@wcnx.org) <robinhe@wcnx.org>; Ryan Roth <ryan.roth@wasteconnections.com>; Tiffany Helm <tiffany.helm@wasteconnections.com> 3 attachments (4 MB)

21H0027 ARISample FINAL 14 Aug 2021 1356.pdf; 21H0067 ARISample FINAL 14 Aug 2021 1401.pdf; 21H0014 ARISample FINAL 11 Aug 2021 1735.pdf;

Good morning,

I have reviewed the three attached lab analysis and these soils are acceptable for disposal under WDA 2526R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management

Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org(253) 649-1840 o • www.tpchd.org[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)**We're open to serve you!**We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>**Sent:** Monday, August 16, 2021 7:51 AM**To:** Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>**Cc:** 'kking@perc-nw.com' <kking@perc-nw.com>**Subject:** Two data packages for your review and approval

CAUTION: External Email

Keith:

Attached are two data packages for your review and approval. The soils that the analysis represents are from the Superlon Plastics site (WDA Permit number 2526R). Each sample represents approximately 23 CY of soil. The following table lists the results. The lead and arsenic concentrations in these soils were all non-detectable.

Please let me know if you have any questions.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-217A-080321	ND	ND	9.17	Asking for approval
SO-TC-217B-080321	ND	ND	9.15	Asking for approval
SO-TC-217C-080321	ND	ND	9.39	Asking for approval
SO-TC-218A-080521	ND	ND	9.07	Asking for approval
SO-TC-218B-080521	ND	ND	9.13	Asking for approval
SO-TC-218C-080521	ND	ND	9.18	Asking for approval

Thank you.
Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

PLEASE use this email address when communicating with me. My former email (jking@perc-nw.com) has been compromised.

This communication is for use by the intended recipient and contains information that may be privileged, confidential or copyrighted under applicable law. If you are not the intended recipient, you are hereby formally notified that any use, copying or distribution of this e-mail, in whole or in part, is strictly prohibited. Please notify the sender by return e-mail and delete this e-mail from your system. This e-mail does not constitute a consent to the use of sender's contact information for direct marketing purposes or for transfers of data to third parties. Thank you.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

14 August 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21H0027

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2021.08.14
13:59:54 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its



ARI Assigned Number: 21H0027		Turn-around Requested: 3 DAY		Date: 8/3/2021		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)		
ARI Client Company: PERC		Phone: 4253480921		Page: of				
Client Contact: Kenny King		No. of Coolers: 2		Cooler Temps: 27.8				
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments
Client Project #: SLON		Samplers: KING		TCLP 1311 As/Pb Only	pH 9045C			
Sample ID	Date	Time	Matrix	No. Containers				
SO-TC-217A-080321	08/03/21	15:20	SOIL	1	✓	✓		
SO-TC-217B-080321	08/03/21	15:30	SOIL	1	✓	✓		
SO-TC-217C-080321	08/03/21	15:40	SOIL	1	✓	✓		
Comments/Special Instructions				Relinquished by:	Received by:	Relinquished by:	Received by:	
				(Signature) <i>Kenny King</i>	(Signature) <i>Jacob L. White</i>	(Signature)	(Signature)	
				Printed Name: Kenny King	Printed Name: Jacob L. White	Printed Name:	Printed Name:	
				Company: PERC	Company: ARR	Company:	Company:	
				Date & Time: 8/3/2021 16:52	Date & Time: 08/03/2021 1652	Date & Time:	Date & Time:	

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Aug-2021 13:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-217A-080321	21H0027-01	Solid	03-Aug-2021 15:20	03-Aug-2021 16:52
SO-TC-217B-080321	21H0027-02	Solid	03-Aug-2021 15:30	03-Aug-2021 16:52
SO-TC-217C-080321	21H0027-03	Solid	03-Aug-2021 15:40	03-Aug-2021 16:52



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Aug-2021 13:56

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21H0027

Sample receipt

Samples as listed on the preceding page were received 03-Aug-2021 16:52 under ARI work order 21H0027. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 21H0027-01 in batch BJH0254. The duplicate (DUP) relative percent difference (RPD) and the matrix spike (MS) percent recoveries were within control limits.



WORK ORDER

21H0024

Client: The Boeing Company [HW Program]

Project Manager: Kelly Bottem

Project: Hydraulic Spill NBF

Project Number: Hydraulic Spill NBF

Preservation Confirmation

Container ID	Container Type	pH	
21H0024-01 A	Glass NM, Amber, 1000 mL		
21H0024-01 B	Glass NM, Amber, 1000 mL		
21H0024-01 C	Glass NM, Amber, 500 mL		
21H0024-01 D	Glass NM, Amber, 500 mL		
21H0024-01 E	Glass WM, Clear, 32 oz	7.2	Fail (1)
21H0024-01 F	Large OJ, 1000 mL		
21H0024-01 G	HDPE NM, 500 mL, 1:1 HNO ₃	5.2	Pass
21H0024-01 H	VOA Vial, Clear, 40 mL, HCL	Bubble	
21H0024-01 I	VOA Vial, Clear, 40 mL, HCL	Bubble	
21H0024-01 J	VOA Vial, Clear, 40 mL, HCL	Bubble	
21H0024-01 K	Glass WM, Clear, 8 oz		
21H0024-02 A	VOA Vial, Clear, 40 mL, HCL		
21H0024-02 B	VOA Vial, Clear, 40 mL, HCL		

SSM
Preservation Confirmed By

08/03/2021
Date

(1) added 2ml H₂SO₄ 9N
pH < 2
w/ 8-3-21



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): 21H0007 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 21H0007

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1652

27.8

If cooler temperature is out of compliance fill out form D0070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JLW

Date: 08/03/2001

Time: 1652

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

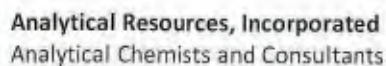
Samples Logged by: JLW Date: 08/04/2001 Time: 0659 Labels checked by: JLW

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: SS Date: 08/03/2021 Time: 1652
00070F Cooler Temperature Compliance Form Ver



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Aug-2021 13:56

SO-TC-217A-080321
21H0027-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/03/2021 15:20

Instrument: ICP2 Analyst: MVP

Analyzed: 08/11/2021 14:16

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21H0027-01 A 02

Preparation Batch: BJH0254

Sample Size: 25 mL (wet)

Prepared: 08/10/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Aug-2021 13:56

SO-TC-217A-080321
21H0027-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/03/2021 15:20

Instrument: Accumet AB150 Analyst: UW

Analyzed: 08/05/2021 11:40

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21H0027-01 A

Preparation Batch: BJH0146

Sample Size: 20 g (wet)

Prepared: 08/05/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.17	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Aug-2021 13:56

SO-TC-217B-080321
21H0027-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/03/2021 15:30

Instrument: ICP2 Analyst: MVP

Analyzed: 08/11/2021 14:24

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21H0027-02 A 02

Preparation Batch: BJH0254

Sample Size: 25 mL (wet)

Prepared: 08/10/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Aug-2021 13:56

SO-TC-217B-080321
21H0027-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/03/2021 15:30

Instrument: Accumet AB150 Analyst: UW

Analyzed: 08/05/2021 11:40

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21H0027-02 A

Preparation Batch: BJH0146

Sample Size: 20 g (wet)

Prepared: 08/05/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.15	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Aug-2021 13:56

SO-TC-217C-080321
21H0027-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/03/2021 15:40

Instrument: ICP2 Analyst: MVP

Analyzed: 08/11/2021 14:27

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21H0027-03 A 02

Preparation Batch: BJH0254

Sample Size: 25 mL (wet)

Prepared: 08/10/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Aug-2021 13:56

SO-TC-217C-080321
21H0027-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/03/2021 15:40

Instrument: Accumet AB150 Analyst: UW

Analyzed: 08/05/2021 11:40

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21H0027-03 A

Preparation Batch: BJH0146

Sample Size: 20 g (wet)

Prepared: 08/05/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.39	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Aug-2021 13:56

TCLP Metals and Metallic Compounds - Quality Control

Batch BJH0254 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJH0254-BLK1)						Prepared: 10-Aug-2021 Analyzed: 11-Aug-2021 13:58					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BJH0254-DUP1)						Source: 21H0027-01 Prepared: 10-Aug-2021 Analyzed: 11-Aug-2021 14:14					
Arsenic	ND	0.0140	0.250	mg/L		ND					U
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BJH0254-MS1)						Source: 21H0027-01 Prepared: 10-Aug-2021 Analyzed: 11-Aug-2021 14:19					
Arsenic	3.97	0.0140	0.250	mg/L	4.00	ND	99.2	75-125			
Lead	3.73	0.0065	0.100	mg/L	4.00	ND	93.3	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Aug-2021 13:56

Wet Chemistry - Quality Control

Batch BJH0146 - EPA 9045D

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BJH0146-BS1)					Prepared: 05-Aug-2021 Analyzed: 05-Aug-2021 11:40				
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Aug-2021 13:56

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Aug-2021 13:56

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

14 August 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21H0067

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2021.08.14 14:02:34
-07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 21H0067		Turn-around Requested: 3 DAY		Date: 08.05.21								
ARI Client Company: PERC		Phone: 425.346.0921		Page: of								
Client Contact: KENNY KING		No. of Coolers:		Cooler Temps: 32.2°C								
Client Project Name: SUPERLON PLASTICS		Analysis Requested				Notes/Comments						
Client Project #: SLON							Samplers: KING					
Sample ID	Date	Time	Matrix	No. Containers	7CLP 1311 As/Pb only	pH 9045C						
SO-TC-218A-080521	08/05/21	09:56	SOIL	1	✓	✓						
SO-TC-218B-080521	08/05/21	10:04	SOIL	1	✓	✓						
SO-TC-218C-080521	08/05/21	10:09	SOIL	1	✓	✓						
Comments/Special Instructions		Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>				
		Printed Name: JEFF KING		Printed Name: Daniel Lammert		Printed Name:		Printed Name:				
		Company: PERC		Company: ARI		Company:		Company:				
		Date & Time: 8/5/21 3:31		Date & Time: 08/05/21 1531		Date & Time:		Date & Time:				



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Aug-2021 14:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-218A-080521	21H0067-01	Solid	05-Aug-2021 09:56	05-Aug-2021 15:31
SO-TC-218B-080521	21H0067-02	Solid	05-Aug-2021 10:04	05-Aug-2021 15:31
SO-TC-218C-080521	21H0067-03	Solid	05-Aug-2021 10:09	05-Aug-2021 15:31



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Aug-2021 14:01

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21H0067

Sample receipt

Samples as listed on the preceding page were received 05-Aug-2021 15:31 under ARI work order 21H0067. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 21H0067-01 in bathc BJH0271. The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

COC No(s): _____ NA

Assigned ARI Job No: 21H0067

Project Name: Superlon Plastics

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1531

322

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: DL

Date: 08/05/21

Time: 1531

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JS Date: 08/05/2021 Time: 1603 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 21H0067

Cooler#: _____ Temperature(°C): 32.2

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

<u>Samples Retrieved Above 6°C</u>		

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: DL

Date: 08/05/21 Time: 1531

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Aug-2021 14:01

SO-TC-218A-080521
21H0067-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/05/2021 09:56

Instrument: ICP2 Analyst: MVP

Analyzed: 08/11/2021 14:30

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21H0067-01 A 02

Preparation Batch: BJH0254

Sample Size: 25 mL (wet)

Prepared: 08/10/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Aug-2021 14:01

SO-TC-218A-080521
21H0067-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/05/2021 09:56

Instrument: Accumet AB150 Analyst: UW

Analyzed: 08/10/2021 16:15

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21H0067-01 A 01

Preparation Batch: BJH0271

Sample Size: 20.04 g (wet)

Prepared: 08/10/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.07	pH Units	



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8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Aug-2021 14:01

SO-TC-218B-080521
21H0067-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/05/2021 10:04

Instrument: ICP2 Analyst: MVP

Analyzed: 08/11/2021 15:23

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21H0067-02 A 01

Preparation Batch: BJH0254

Sample Size: 25 mL (wet)

Prepared: 08/10/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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Reported:
14-Aug-2021 14:01

SO-TC-218B-080521
21H0067-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/05/2021 10:04

Instrument: Accumet AB150 Analyst: UW

Analyzed: 08/10/2021 16:15

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21H0067-02 A 01

Preparation Batch: BJH0271

Sample Size: 20.03 g (wet)

Prepared: 08/10/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.13	pH Units	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Aug-2021 14:01

SO-TC-218C-080521
21H0067-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/05/2021 10:09

Instrument: ICP2 Analyst: MVP

Analyzed: 08/11/2021 15:26

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21H0067-03 A 02

Preparation Batch: BJH0254

Sample Size: 25 mL (wet)

Prepared: 08/10/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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Project: Superlon Plastics
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Reported:
14-Aug-2021 14:01

SO-TC-218C-080521
21H0067-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/05/2021 10:09

Instrument: Accumet AB150 Analyst: UW

Analyzed: 08/10/2021 16:15

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21H0067-03 A 01

Preparation Batch: BJH0271

Sample Size: 20.07 g (wet)

Prepared: 08/10/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.18	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
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Reported:
14-Aug-2021 14:01

TCLP Metals and Metallic Compounds - Quality Control

Batch BJH0254 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJH0254-BLK1)						Prepared: 10-Aug-2021 Analyzed: 11-Aug-2021 13:58					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Aug-2021 14:01

Wet Chemistry - Quality Control

Batch BJH0271 - EPA 9045D

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BJH0271-BS1)						Prepared: 10-Aug-2021 Analyzed: 10-Aug-2021 16:15					
pH	6.96	0.01	0.01	pH Units	7.00		99.4	99.2-100.8			
Duplicate (BJH0271-DUP1)						Source: 21H0067-01 Prepared: 10-Aug-2021 Analyzed: 10-Aug-2021 16:15					
pH	9.07	0.01	0.01	pH Units		9.07			0.00		



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Reported:
14-Aug-2021 14:01

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



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14-Aug-2021 14:01

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Outlook

FW: Five data packages for your review and approval

From Keith Johnston <KJohnston@tpchd.org>**Date** Wed 8/25/2021 7:46 AM**To** 'JEFFREY KING' <jking@perc-nw.com>**Cc** kking perc-nw.com <kking@perc-nw.com>; Dana Haugen (danah@wcnx.org) <danah@wcnx.org>; Jeff Bishop <JeffBis@WasteConnections.com>; Maria F (MariaF@wcnx.org) <MariaF@wcnx.org>; Mr George Duvendack (GeorgeD@WasteConnections.com) <GeorgeD@WasteConnections.com>; Olivier Moi <OlivierA@WasteConnections.com>; Rebecca Gunter (RebeccaG@wcnx.org) <RebeccaG@wcnx.org>; Robin Henne (robinhe@wcnx.org) <robinhe@wcnx.org>; Ryan Roth <ryan.roth@wasteconnections.com>; Tiffany Helm <tiffany.helm@wasteconnections.com> 5 attachments (6 MB)

21H0100 ARISample FINAL 16 Aug 2021 1810.pdf; 21H0111 ARISample FINAL 16 Aug 2021 1821.pdf; 21H0195 ARISample FINAL 23 Aug 2021 1445.pdf; 21H0196 ARISample FINAL 23 Aug 2021 1449.pdf; 21H0208 ARISample FINAL 23 Aug 2021 1459.pdf;

Jeff,

I have reviewed this data and these soils are acceptable for disposal under WDA 2526R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management

Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org(253) 649-1840 o • www.tpchd.org[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)**We're open to serve you!**We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>**Sent:** Monday, August 23, 2021 4:08 PM**To:** Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>**Cc:** 'kking@perc-nw.com' <kking@perc-nw.com>**Subject:** Five data packages for your review and approval

CAUTION: External Email

Keith:

Attached are five data packages for your review and approval. The soils that the analyses represent are from the Superlon Plastics site (WDA Permit number 2526R). Each sample represents approximately 23 CY of soil. The following table lists the results.

Please let me know if you have any questions.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-RAUB9-D1+E1-06-a-081021	0.179	0.276	7.06	Asking for approval
SO-RAUB9-D1+E1-06-b-081021	0.139	0.0245	8.11	Asking for approval
SO-RAUB9-D1+E1-06-cd-081021	0.184	0.0625	7.63	Asking for approval
SO-RAUB2B1-03-070821	0.0551	0.0473	6.14	Asking for approval
SO-RAUD1-23+RAUD3-23-a-071921	0.0721	0.0067	4.48	Asking for approval
SO-RAUD4-23-a-080921	0.0907	ND	6.49	Asking for approval
SO-TC-219A-081621	ND	0.0076	9.14	Asking for approval
SO-TC-219B-081621	ND	0.0114	9.38	Asking for approval
SO-TC-219C-081621	0.0421	0.0158	9.53	Asking for approval
SO-RAUB9-D1+E1-68-ab-081021	0.194	0.0174	7.65	Asking for approval
SO-RAUB9-A1+B1+C1-69-a-081121	0.281	0.0104	7.38	Asking for approval
SO-RAUD5-23-ab-081621	0.105	0.0098	6.73	Asking for approval
SO-RAUB10-D1+E1-06-a-081621	0.804	0.0576	6.99	Asking for approval
SO-RAUB10-D1+E1-06-ab-081721	1.15	0.0356	8.17	Asking for approval
SO-RAUB10-D1+E1-68-a-081721	0.23	0.0143	8.41	Asking for approval

Thank you
Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

PLEASE use this email address when communicating with me. My former email (jking@perc-nw.com) has been compromised.

This communication is for use by the intended recipient and contains information that may be privileged, confidential or copyrighted under applicable law. If you are not the intended recipient, you are hereby formally notified that any use, copying or distribution of this e-mail, in whole or in part, is strictly prohibited. Please notify the sender by return e-mail and delete this e-mail from your system. This e-mail does not constitute a consent to the use of sender's contact information for direct marketing purposes or for transfers of data to third parties. Thank you.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

23 August 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21H0195

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed
by Shelly Fishel
Date: 2021.08.23
14:46:44 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its



ARI Assigned Number: 21H0195		Turn-around Requested: 3 DAY		Date: 8/16/2021		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)									
ARI Client Company: PERC		Phone: 4253480921		Page: of											
Client Contact: Kenny King		No. of Coolers: 8		Cooler Temps: 23.9											
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments			
Client Project #: SLON		Samplers: KING			TCLP 1311 As/Pb Only pH 9045C	pH 9045C									
Sample ID	Date	Time	Matrix	No. Containers											
SO-TC-219A-081621	08/16/21	11:20	SOIL	1			✓	✓							
SO-TC-219B-081621	08/16/21	11:30	SOIL	1			✓	✓							
SO-TC-219C-081621	08/16/21	11:40	SOIL	1			✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob LaRue</i>		Relinquished by: (Signature)		Received by: (Signature)				
					Printed Name: Kenny King		Printed Name: Jacob LaRue		Printed Name:		Printed Name:				
					Company: PERC		Company: ARI		Company:		Company:				
					Date & Time: 8/16/2021 16:45		Date & Time: 08/16/2021 1645		Date & Time:		Date & Time:				

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Aug-2021 14:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-219A-081621	21H0195-01	Solid	16-Aug-2021 11:20	16-Aug-2021 16:45
SO-TC-219B-081621	21H0195-02	Solid	16-Aug-2021 11:30	16-Aug-2021 16:45
SO-TC-219C-081621	21H0195-03	Solid	16-Aug-2021 11:40	16-Aug-2021 16:45



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Aug-2021 14:45

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21H0195

Sample receipt

Samples as listed on the preceding page were received 16-Aug-2021 16:45 under ARI work order 21H0195. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The reference material (SRM) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 21H0195-01 in batch BJH503. The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 21H0195-01 in batch BJH0496. The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 21H0195

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1645

23.9

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# DOO5206

Cooler Accepted by: TL

Date: 08/16/21

Time: 1645

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Raggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Were the sample(s) split by ARI? NA YES NO Date/Time: _____ Equipment: _____ Split by: _____

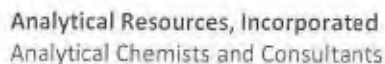
Samples Logged by: DL Date: 08/16/21 Time: 1652 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: SM Date: 08/16/2021 Time: 1645
00070F Cooler Temperature Compliance Form Ver



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
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Reported:
23-Aug-2021 14:45

SO-TC-219A-081621
21H0195-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/16/2021 11:20

Instrument: ICP2 Analyst: MVP

Analyzed: 08/20/2021 12:40

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21H0195-01 A 03

Preparation Batch: BJH0496

Sample Size: 25 mL (wet)

Prepared: 08/19/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0076	mg/L	J



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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
23-Aug-2021 14:45

SO-TC-219A-081621
21H0195-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/16/2021 11:20

Instrument: Accumet AB150 Analyst: UW

Analyzed: 08/19/2021 14:05

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21H0195-01 A 01

Preparation Batch: BJH0503

Sample Size: 20 g (wet)

Prepared: 08/19/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.14	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Aug-2021 14:45

SO-TC-219B-081621
21H0195-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/16/2021 11:30

Instrument: ICP2 Analyst: MVP

Analyzed: 08/20/2021 12:48

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21H0195-02 A 03

Preparation Batch: BJH0496

Sample Size: 25 mL (wet)

Prepared: 08/19/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0114	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
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Reported:
23-Aug-2021 14:45

SO-TC-219B-081621
21H0195-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/16/2021 11:30

Instrument: Accumet AB150 Analyst: UW

Analyzed: 08/19/2021 14:05

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21H0195-02 A 01

Preparation Batch: BJH0503

Sample Size: 20 g (wet)

Prepared: 08/19/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.38	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Aug-2021 14:45

SO-TC-219C-081621
21H0195-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/16/2021 11:40

Instrument: ICP2 Analyst: MVP

Analyzed: 08/20/2021 12:51

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21H0195-03 A 03

Preparation Batch: BJH0496

Sample Size: 25 mL (wet)

Prepared: 08/19/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0421	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0158	mg/L	J



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Reported:
23-Aug-2021 14:45

SO-TC-219C-081621
21H0195-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/16/2021 11:40

Instrument: Accumet AB150 Analyst: UW

Analyzed: 08/19/2021 14:05

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21H0195-03 A 01

Preparation Batch: BJH0503

Sample Size: 20 g (wet)

Prepared: 08/19/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.53	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Aug-2021 14:45

TCLP Metals and Metallic Compounds - Quality Control

Batch BJH0496 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJH0496-BLK1)						Prepared: 19-Aug-2021 Analyzed: 20-Aug-2021 12:34					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BJH0496-DUP1)						Source: 21H0195-01 Prepared: 19-Aug-2021 Analyzed: 20-Aug-2021 12:37					
Arsenic	ND	0.0140	0.250	mg/L		ND					U
Lead	ND	0.0065	0.100	mg/L		0.0076					U
Matrix Spike (BJH0496-MS1)						Source: 21H0195-01 Prepared: 19-Aug-2021 Analyzed: 20-Aug-2021 12:43					
Arsenic	4.21	0.0140	0.250	mg/L	4.00	ND	105	75-125			
Lead	4.02	0.0065	0.100	mg/L	4.00	0.0076	100	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Aug-2021 14:45

Wet Chemistry - Quality Control

Batch BJH0503 - EPA 9045D

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BJH0503-BS1)						Prepared: 19-Aug-2021 Analyzed: 19-Aug-2021 14:05					
pH	6.96	0.01	0.01	pH Units	7.00		99.4	99.2-100.8			
Duplicate (BJH0503-DUP1)						Source: 21H0195-01 Prepared: 19-Aug-2021 Analyzed: 19-Aug-2021 14:05					
pH	9.13	0.01	0.01	pH Units		9.14			0.11	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Aug-2021 14:45

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



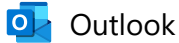
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Aug-2021 14:45

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: One data package for your review and approval

From Keith Johnston <KJohnston@tpchd.org>

Date Tue 8/31/2021 11:41 AM

To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking@perc-nw.com <kking@perc-nw.com>; Dana Haugen (danah@wcnx.org) <danah@wcnx.org>; Jeff Bishop <JeffBis@WasteConnections.com>; Maria F (MariaF@wcnx.org) <MariaF@wcnx.org>; Mr George Duvendack (GeorgeD@WasteConnections.com) <GeorgeD@WasteConnections.com>; Olivier Moi <OlivierA@WasteConnections.com>; Rebecca Gunter (RebeccaG@wcnx.org) <RebeccaG@wcnx.org>; Robin Henne (robinhe@wcnx.org) <robinhe@wcnx.org>; Ryan Roth <ryan.roth@wasteconnections.com>; Tiffany Helm <tiffany.helm@wasteconnections.com>

Jeff,

I have reviewed the lab data and these soils are acceptable for disposal under WDA 2526R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management

Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>

Sent: Tuesday, August 31, 2021 11:18 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: One data package for your review and approval

CAUTION: External Email

Keith:

Attached is one data package for your review and approval. The soils that the analysis represents are from the Superlon Plastics site (WDA Permit number 2526R). Each sample represents approximately 23 CY of soil. The following table lists the results.

SAMPLE ID	Arsenic Concentration	Lead Concentration	pH	Request
-----------	--------------------------	-----------------------	----	---------

	(TCLP) mg/L	(TCLP) mg/L		
SO-TC-220A-082321	ND	ND	8.86	Asking for approval
SO-TC-220B-082321	0.0299	ND	9.16	Asking for approval
SO-TC-220C-082321	ND	ND	9.32	Asking for approval

Please let me know if you have any questions.

Thanks
Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

PLEASE use this email address when communicating with me. My former email (jking@perc-nw.com) has been compromised.

This communication is for use by the intended recipient and contains information that may be privileged, confidential or copyrighted under applicable law. If you are not the intended recipient, you are hereby formally notified that any use, copying or distribution of this e-mail, in whole or in part, is strictly prohibited. Please notify the sender by return e-mail and delete this e-mail from your system. This e-mail does not constitute a consent to the use of sender's contact information for direct marketing purposes or for transfers of data to third parties. Thank you.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

30 August 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21H0278

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Aug-2021 17:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-220A-082321	21H0278-01	Solid	23-Aug-2021 10:20	23-Aug-2021 16:55
SO-TC-220B-082321	21H0278-02	Solid	23-Aug-2021 10:30	23-Aug-2021 16:55
SO-TC-220C-082321	21H0278-03	Solid	23-Aug-2021 10:40	23-Aug-2021 16:55



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Aug-2021 17:02

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21H0278

Sample receipt

Samples as listed on the preceding page were received 23-Aug-2021 16:55 under ARI work order 21H0278. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 21H0278-01 in bath BJH0707. The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Super Ion Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 21H0278

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1655 239

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: DL Date: 08/23/21 Time: 1655

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: DL Date: 08/24/21 Time: 0832 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Aug-2021 17:02

SO-TC-220A-082321
21H0278-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/23/2021 10:20

Instrument: ICP2 Analyst: MVP

Analyzed: 08/26/2021 15:58

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21H0278-01 A 02

Preparation Batch: BJH0636

Sample Size: 25 mL (wet)

Prepared: 08/25/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Aug-2021 17:02

SO-TC-220A-082321
21H0278-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/23/2021 10:20

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 08/27/2021 12:50

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21H0278-01 A

Preparation Batch: BJH0707

Sample Size: 20.5289 g (wet)

Prepared: 08/27/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.86	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Aug-2021 17:02

SO-TC-220B-082321
21H0278-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/23/2021 10:30

Instrument: ICP2 Analyst: MVP

Analyzed: 08/26/2021 16:23

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21H0278-02 A 02

Preparation Batch: BJH0636

Sample Size: 25 mL (wet)

Prepared: 08/25/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0299	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Aug-2021 17:02

SO-TC-220B-082321
21H0278-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/23/2021 10:30

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 08/27/2021 12:50

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21H0278-02 A

Preparation Batch: BJH0707

Sample Size: 20.6903 g (wet)

Prepared: 08/27/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.16	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Aug-2021 17:02

SO-TC-220C-082321
21H0278-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/23/2021 10:40

Instrument: ICP2 Analyst: MVP

Analyzed: 08/26/2021 16:20

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21H0278-03 A 02

Preparation Batch: BJH0636

Sample Size: 25 mL (wet)

Prepared: 08/25/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Aug-2021 17:02

SO-TC-220C-082321
21H0278-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/23/2021 10:40

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 08/27/2021 12:50

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21H0278-03 A

Preparation Batch: BJH0707

Sample Size: 20.8585 g (wet)

Prepared: 08/27/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.32	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Aug-2021 17:02

TCLP Metals and Metallic Compounds - Quality Control

Batch BJH0636 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BJH0636-BLK1)					Prepared: 25-Aug-2021 Analyzed: 26-Aug-2021 15:30					
Arsenic	0.0306	0.0140	0.250	mg/L						J
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Aug-2021 17:02

Wet Chemistry - Quality Control

Batch BJH0707 - EPA 9045D

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BJH0707-BS1)					Prepared: 27-Aug-2021		Analyzed: 27-Aug-2021 12:50			
pH	6.99	0.01	0.01	pH Units	7.00	99.9	99.2-100.8			
Duplicate (BJH0707-DUP1)					Source: 21H0278-01		Prepared: 27-Aug-2021		Analyzed: 27-Aug-2021 12:50	
pH	8.88	0.01	0.01	pH Units	8.86	0.23	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Aug-2021 17:02

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Aug-2021 17:02

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Three data packages for your review and approval

From Keith Johnston <KJohnston@tpchd.org>

Date Thu 9/9/2021 10:52 AM

To 'JEFFREY KING' <jking@perc-nw.com>

Cc kking perc-nw.com <kking@perc-nw.com>; Dana Haugen (danah@wcnx.org) <danah@wcnx.org>; Jeff Bishop <JeffBis@WasteConnections.com>; Maria F (MariaF@wcnx.org) <MariaF@wcnx.org>; Mr George Duvendack (GeorgeD@WasteConnections.com) <GeorgeD@WasteConnections.com>; Olivier Moi <OlivierA@WasteConnections.com>; Rebecca Gunter (RebeccaG@wcnx.org) <RebeccaG@wcnx.org>; Robin Henne (robinhe@wcnx.org) <robinhe@wcnx.org>; Ryan Roth <ryan.roth@wasteconnections.com>; Tiffany Helm <tiffany.helm@wasteconnections.com>

Good Morning,

I have reviewed the data and these soils are acceptable under WDA 2526R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management

Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>

Sent: Tuesday, September 7, 2021 12:25 PM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: Three data packages for your review and approval

CAUTION: External Email

Keith:

Attached are three data packages for your review and approval. The soils that the analysis represents are from the Superlon Plastics site (WDA Permit number 2526R). Each sample represents approximately 23 CY of soil. Please let me know if you have any questions.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-RAUB11-A1+B1+C1-06-bc-082421	0.452	0.0076	6.8	Asking for approval
SO-RAUB11-A1+B1+C1-06-a-082421	0.0953	ND	7.14	Asking for approval

SO-RAUB10-A1-68+RAUD6-23-a-081821	0.115	0.0074	8.3	Asking for approval
SO-TC-221A-082521	0.0406	0.0805	9.15	Asking for approval
SO-TC-221B-082521	ND	0.0854	9.1	Asking for approval
SO-TC-221C-082521	0.0288	0.0072	8.95	Asking for approval
SO-RAUB12-D1+E1-06-a-082621	0.0989	0.179	7	Asking for approval
SO-RAUB12-D1+E1-06-bc-082621	0.064	0.0413	6.83	Asking for approval

Thanks
Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

PLEASE use this email address when communicating with me. My former email (jking@perc-nw.com) has been compromised.

This communication is for use by the intended recipient and contains information that may be privileged, confidential or copyrighted under applicable law. If you are not the intended recipient, you are hereby formally notified that any use, copying or distribution of this e-mail, in whole or in part, is strictly prohibited. Please notify the sender by return e-mail and delete this e-mail from your system. This e-mail does not constitute a consent to the use of sender's contact information for direct marketing purposes or for transfers of data to third parties. Thank you.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

02 September 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21H0305

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2021.09.02
14:50:31 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Sep-2021 14:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-221A-082521	21H0305-01	Solid	25-Aug-2021 11:44	25-Aug-2021 16:09
SO-TC-221B-082521	21H0305-02	Solid	25-Aug-2021 11:54	25-Aug-2021 16:09
SO-TC-221C-082521	21H0305-03	Solid	25-Aug-2021 12:04	25-Aug-2021 16:09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Sep-2021 14:49

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21H0305

Sample receipt

Samples as listed on the preceding page were received 25-Aug-2021 16:09 under ARI work order 21H0305. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Sperlan Plaster

COC No(s): 21H0305 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 21H0305

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1649

28.7

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JS

Date: 08/25/21

Time: 1649

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: DL Date: 08/25/21 Time: 1726 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____

0016F
01/17/2018

Cooler Receipt Form

Revision 014A



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Sep-2021 14:49

SO-TC-221A-082521
21H0305-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/25/2021 11:44

Instrument: ICP2 Analyst: MVP

Analyzed: 08/31/2021 13:47

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21H0305-01 A 02

Preparation Batch: BJH0746

Sample Size: 25 mL (wet)

Prepared: 08/30/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0406	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0805	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Sep-2021 14:49

SO-TC-221A-082521
21H0305-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/25/2021 11:44

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 08/27/2021 12:50

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21H0305-01 A

Preparation Batch: BJH0707

Sample Size: 20.3714 g (wet)

Prepared: 08/27/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.15	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Sep-2021 14:49

SO-TC-221B-082521
21H0305-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/25/2021 11:54

Instrument: ICP2 Analyst: MVP

Analyzed: 08/31/2021 13:50

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21H0305-02 A 02

Preparation Batch: BJH0746

Sample Size: 25 mL (wet)

Prepared: 08/30/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0854	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Sep-2021 14:49

SO-TC-221B-082521
21H0305-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/25/2021 11:54

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 08/27/2021 12:50

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21H0305-02 A

Preparation Batch: BJH0707

Sample Size: 20.3508 g (wet)

Prepared: 08/27/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.10	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Sep-2021 14:49

SO-TC-221C-082521
21H0305-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/25/2021 12:04

Instrument: ICP2 Analyst: MVP

Analyzed: 08/31/2021 14:24

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21H0305-03 A 02

Preparation Batch: BJH0746

Sample Size: 25 mL (wet)

Prepared: 08/30/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0288	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0072	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Sep-2021 14:49

SO-TC-221C-082521
21H0305-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/25/2021 12:04

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 08/27/2021 12:50

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21H0305-03 A

Preparation Batch: BJH0707

Sample Size: 20.6699 g (wet)

Prepared: 08/27/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.95	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Sep-2021 14:49

TCLP Metals and Metallic Compounds - Quality Control

Batch BJH0746 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJH0746-BLK1)						Prepared: 30-Aug-2021 Analyzed: 31-Aug-2021 13:22					
Arsenic	0.0150	0.0140	0.250	mg/L							J
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Sep-2021 14:49

Wet Chemistry - Quality Control

Batch BJH0707 - EPA 9045D

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BJH0707-BS1)					Prepared: 27-Aug-2021 Analyzed: 27-Aug-2021 12:50					
pH	6.99	0.01	0.01	pH Units	7.00	99.9	99.2-100.8			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Sep-2021 14:49

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



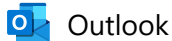
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Sep-2021 14:49

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

**RE: One more data package for your review and approval - LATE ARRIVAL**

From Keith Johnston <KJohnston@tpchd.org>
on behalf of
EH SolidWaste <EHSolidWaste@tpchd.org>
Date Thu 9/16/2021 1:36 PM
To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc kking perc-nw.com <kking@perc-nw.com>

Hi Jeff,

I am not sure if I already provided approval for these soils but if I didn't here it is.

These soils are acceptable for disposal under WDA 2526R.

Thanks and let me know if you have any outstanding emails that you still need approval on.

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management

Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>
Sent: Wednesday, September 15, 2021 8:00 AM
To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc: 'kking@perc-nw.com' <kking@perc-nw.com>
Subject: One more data package for your review and approval - LATE ARRIVAL

CAUTION: External Email

Keith:

Normally I like to submit all the data packages that we received in a week to you at the same time but this showed up late yesterday so attached is one data package for your review and approval. The soils that the analysis represents are from the Superlon Plastics site (WDA Permit number 2526R). Each sample represents approximately 23 CY of soil. The following table lists the results.

SAMPLE ID	Arsenic Concentration	Lead Concentration	pH	Request
-----------	--------------------------	-----------------------	----	---------

	(TCLP) mg/L	(TCLP) mg/L		
SO-TC-222A-090221	0.0948	0.071	8.45	Asking for approval
SO-TC-222B-090221	0.0773	0.0153	8.63	Asking for approval
SO-TC-222C-090221	0.0238	ND	8.91	Asking for approval

Please let me know if you have any questions.

Thanks
Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

PLEASE use this email address when communicating with me. My former email (jking@perc-nw.com) has been compromised.

This communication is for use by the intended recipient and contains information that may be privileged, confidential or copyrighted under applicable law. If you are not the intended recipient, you are hereby formally notified that any use, copying or distribution of this e-mail, in whole or in part, is strictly prohibited. Please notify the sender by return e-mail and delete this e-mail from your system. This e-mail does not constitute a consent to the use of sender's contact information for direct marketing purposes or for transfers of data to third parties. Thank you.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

14 September 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
2110073

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2110073		Turn-around Requested: 3 DAY		Date: 9/7/2021		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 4253480921		Page: of					
Client Contact: Kenny King				No. of Coolers: 4 Cooler Temps: 26.3					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: KING		TCLP 1311 As/Pb Only	pH 9045C				
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-222A-090221	09/02/21	10:55	SOIL	1	✓	✓			
SO-TC-222B-090221	09/02/21	11:05	SOIL	1	✓	✓			
SO-TC-222C-090221	09/02/21	11:08	SOIL	1	✓	✓			
Comments/Special Instructions		Relinquished by: (Signature) Kenny King		Received by: (Signature) Isaac Weather		Relinquished by: (Signature)		Received by: (Signature)	
		Printed Name: Kenny King		Printed Name: Isaac Weather		Printed Name:		Printed Name:	
		Company: PERC		Company: ARI		Company:		Company:	
		Date & Time: 9/7/2021 16:55		Date & Time: 09/07/2021 16:55		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2021 17:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-222A-090221	21I0073-01	Solid	02-Sep-2021 10:55	07-Sep-2021 16:55
SO-TC-222B-090221	21I0073-02	Solid	02-Sep-2021 11:05	07-Sep-2021 16:55
SO-TC-222C-090221	21I0073-03	Solid	02-Sep-2021 11:08	07-Sep-2021 16:55



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2021 17:13

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 2110073

Sample receipt

Samples as listed on the preceding page were received 07-Sep-2021 16:55 under ARI work order 2110073. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 2110073-01 in batch BHI0295. The duplicate (DUP) relative percent difference (RPD) were within advisory control limits. The matrix spike (MS) percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Spartan Plastics

COC No(s): 2170073 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 2170073

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1655

26.3

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# DOO 5206

Cooler Accepted by: JS

Date 09/07/2021

Time 1655

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by JS Date: 09/07/2021 Time 1700 Labels checked by JS

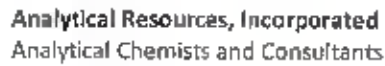
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By:

Date:



Cooler Temperature Compliance Form

Completed by: SJS Date: 09/08/2021 Time: 1655
00070F Cooler Temperature Compliance Form



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2021 17:13

SO-TC-222A-090221
21I0073-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 09/02/2021 10:55

Instrument: ICP2 Analyst: MVP

Analyzed: 09/13/2021 14:00

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21I0073-01 A 02

Preparation Batch: BJI0295

Sample Size: 25 mL (wet)

Prepared: 09/10/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0948	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0710	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2021 17:13

SO-TC-222A-090221
21I0073-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/02/2021 10:55

Instrument: Accumet AB150 Analyst: BF

Analyzed: 09/09/2021 12:28

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21I0073-01 A

Preparation Batch: BJI0261

Sample Size: 20.44 g (wet)

Prepared: 09/09/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.45	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2021 17:13

SO-TC-222B-090221
21I0073-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 09/02/2021 11:05

Instrument: ICP2 Analyst: MVP

Analyzed: 09/13/2021 14:07

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21I0073-02 A 02

Preparation Batch: BJI0295

Sample Size: 25 mL (wet)

Prepared: 09/10/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0773	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0153	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2021 17:13

SO-TC-222B-090221
21I0073-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/02/2021 11:05

Instrument: Accumet AB150 Analyst: BF

Analyzed: 09/09/2021 12:28

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21I0073-02 A

Preparation Batch: BJI0261

Sample Size: 20.06 g (wet)

Prepared: 09/09/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.63	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2021 17:13

SO-TC-222C-090221
21I0073-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 09/02/2021 11:08

Instrument: ICP2 Analyst: MVP

Analyzed: 09/13/2021 14:10

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21I0073-03 A 02

Preparation Batch: BJI0295

Sample Size: 25 mL (wet)

Prepared: 09/10/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0238	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2021 17:13

SO-TC-222C-090221
21I0073-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/02/2021 11:08

Instrument: Accumet AB150 Analyst: BF

Analyzed: 09/09/2021 12:28

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21I0073-03 A

Preparation Batch: BJI0261

Sample Size: 20.39 g (wet)

Prepared: 09/09/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.91	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2021 17:13

TCLP Metals and Metallic Compounds - Quality Control

Batch BJI0295 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJI0295-BLK1)						Prepared: 10-Sep-2021 Analyzed: 13-Sep-2021 13:44					
Arsenic	0.0193	0.0140	0.250	mg/L							J
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BJI0295-DUP1)						Source: 21I0073-01 Prepared: 10-Sep-2021 Analyzed: 13-Sep-2021 13:57					
Arsenic	0.112	0.0140	0.250	mg/L		0.0948			16.60	20	J
Lead	0.0810	0.0065	0.100	mg/L		0.0710			13.20	20	J
Matrix Spike (BJI0295-MS1)						Source: 21I0073-01 Prepared: 10-Sep-2021 Analyzed: 13-Sep-2021 14:03					
Arsenic	4.24	0.0140	0.250	mg/L	4.00	0.0948	104	75-125			
Lead	3.94	0.0065	0.100	mg/L	4.00	0.0710	96.7	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2021 17:13

Wet Chemistry - Quality Control

Batch BJI0261 - EPA 9045D

Instrument: Accumet AB150 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BJI0261-BS1)									
Prepared: 09-Sep-2021 Analyzed: 09-Sep-2021 12:28									
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2021 17:13

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



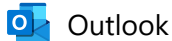
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Sep-2021 17:13

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
Y1	Raised reporting limit due to interference
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Three data packages for your review and approval

From Keith Johnston <KJohnston@tpchd.org>

Date Tue 9/21/2021 11:23 AM

To 'JEFFREY KING' <jking@percnw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>; Dana Haugen (danah@wcnx.org) <danah@wcnx.org>; Jeff Bishop <JeffBis@WasteConnections.com>; Maria F (MariaF@wcnx.org) <MariaF@wcnx.org>; Mr George Duvendack (GeorgeD@WasteConnections.com) <GeorgeD@WasteConnections.com>; Olivier Moi <OlivierA@WasteConnections.com>; Rebecca Gunter (RebeccaG@wcnx.org) <RebeccaG@wcnx.org>; Robin Henne (robinhe@wcnx.org) <robinhe@wcnx.org>; Ryan Roth <ryan.roth@wasteconnections.com>; Tiffany Helm <tiffany.helm@wasteconnections.com>

Hi Jeff,

I have reviewed the data and these soils are acceptable for disposal under WDA 2526R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@percnw.com>

Sent: Tuesday, September 21, 2021 8:27 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: Three data packages for your review and approval

CAUTION: External Email

Keith:

Attached are three data packages for your review and approval for soils originating at the Superlon Plastics site (WDA Permit number 2526R). Each sample represents approximately 23 CY of soil. Please let me know if you have any questions.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-RAUD8-23-b+RAUB1-03-a-083121	0.255	0.0343	6.54	Asking for approval
SO-RAUB13-A1B1C1-810-a-090821	0.527	0.0133	7.49	Asking for approval

SO-RAUB13-A1B1C1-810-b-090821	0.433	ND	8.21	Asking for approval
SO-TC-223A-090821	0.0377	0.0366	8.1	Asking for approval
SO-TC-223B-090821	0.0198	0.0689	8.84	Asking for approval
SO-TC-223C-090821	0.0916	0.727	8.97	Asking for approval
SO-TC-224A-090921	0.0395	0.0125	8.67	Asking for approval
SO-TC-224B-090921	ND	0.0713	6.71	Asking for approval
SO-TC-224C-090921	ND	0.0085	5.77	Asking for approval

Thank you
Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

PLEASE use this email address when communicating with me. My former email (jking@perc-nw.com) has been compromised.

This communication is for use by the intended recipient and contains information that may be privileged, confidential or copyrighted under applicable law. If you are not the intended recipient, you are hereby formally notified that any use, copying or distribution of this e-mail, in whole or in part, is strictly prohibited. Please notify the sender by return e-mail and delete this e-mail from your system. This e-mail does not constitute a consent to the use of sender's contact information for direct marketing purposes or for transfers of data to third parties. Thank you.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

20 September 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
2110105

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2021.09.20
21:48:32 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-223A-090821	21I0105-01	Solid	08-Sep-2021 14:30	09-Sep-2021 14:11
SO-TC-223B-090821	21I0105-02	Solid	08-Sep-2021 14:40	09-Sep-2021 14:11
SO-TC-223C-090821	21I0105-03	Solid	08-Sep-2021 14:50	09-Sep-2021 14:11



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:42

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 2110105

Sample receipt

Samples as listed on the preceding page were received 09-Sep-2021 14:11 under ARI work order 2110105. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): NA
Assigned ARI Job No: 2170105

Project Name: Superlon Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA
Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1411 26.5
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO 206

Cooler Accepted by: JS Date: 09/09/2021 Time: 1411

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI NA
Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: JS Date: 09/09/2021 Time: 1505 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

ARI Work Order: 2170105

Cooler#: _____ Temperature(°C): 26.5

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: SS

Date: 09/09/2021 Time: 1411

00070F

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:42

SO-TC-223A-090821
21I0105-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 09/08/2021 14:30

Instrument: ICP2 Analyst: MVP

Analyzed: 09/15/2021 14:36

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21I0105-01 A 03

Preparation Batch: BJI0384

Sample Size: 25 mL (wet)

Prepared: 09/14/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0377	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0366	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:42

SO-TC-223A-090821
21I0105-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/08/2021 14:30

Instrument: Accumet AB150 Analyst: BF

Analyzed: 09/15/2021 17:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21I0105-01 A

Preparation Batch: BJI0415

Sample Size: 20.12 g (wet)

Prepared: 09/15/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.10	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:42

SO-TC-223B-090821
21I0105-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 09/08/2021 14:40

Instrument: ICP2 Analyst: MVP

Analyzed: 09/15/2021 14:39

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21I0105-02 A 03

Preparation Batch: BJI0384

Sample Size: 25 mL (wet)

Prepared: 09/14/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0198	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0689	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:42

SO-TC-223B-090821
21I0105-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/08/2021 14:40

Instrument: Accumet AB150 Analyst: BF

Analyzed: 09/15/2021 17:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21I0105-02 A

Preparation Batch: BJI0415

Sample Size: 20.88 g (wet)

Prepared: 09/15/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.84	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:42

SO-TC-223C-090821
21I0105-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 09/08/2021 14:50

Instrument: ICP2 Analyst: MVP

Analyzed: 09/15/2021 14:42

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21I0105-03 A 03

Preparation Batch: BJI0384

Sample Size: 25 mL (wet)

Prepared: 09/14/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0916	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.727	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:42

SO-TC-223C-090821
21I0105-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/08/2021 14:50

Instrument: Accumet AB150 Analyst: BF

Analyzed: 09/15/2021 17:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21I0105-03 A

Preparation Batch: BJI0415

Sample Size: 20.74 g (wet)

Prepared: 09/15/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.97	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:42

TCLP Metals and Metallic Compounds - Quality Control

Batch BJI0384 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJI0384-BLK1)						Prepared: 14-Sep-2021 Analyzed: 15-Sep-2021 15:13					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:42

Wet Chemistry - Quality Control

Batch BJI0415 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BJI0415-BS1)									
Prepared: 15-Sep-2021 Analyzed: 15-Sep-2021 17:03									
pH	7.05	0.01	0.01	pH Units	7.00	101	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:42

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:42

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

20 September 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21I0106

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2021.09.20 21:54:32
-07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



History, Physical & Laboratory Analysis Request

[illegible]

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-224A-090921	21I0106-01	Solid	09-Sep-2021 12:45	09-Sep-2021 14:11
SO-TC-224B-090921	21I0106-02	Solid	09-Sep-2021 13:00	09-Sep-2021 14:11
SO-TC-224C-090921	21I0106-03	Solid	09-Sep-2021 13:15	09-Sep-2021 14:11



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:52

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 2110106

Sample receipt

Samples as listed on the preceding page were received 09-Sep-2021 14:11 under ARI work order 2110106. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plasters

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 2170106

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1411 26.5

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 8206

Cooler Accepted by: JS Date: 09/09/2001 Time: 1411

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI... NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: JS Date: 09/09/2001 Time: 1507 Labels checked by: JS

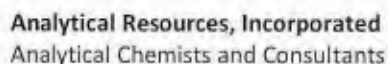
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By:

Date:



Cooler Temperature Compliance Form

[illegible]

Completed by: ES Date: 09/09/201 Time: 1411
00070F Cooler Temperature Compliance Form Vers

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:52

SO-TC-224A-090921
21I0106-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 09/09/2021 12:45

Instrument: ICP2 Analyst: MVP

Analyzed: 09/15/2021 14:45

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21I0106-01 A 03

Preparation Batch: BJI0384

Sample Size: 25 mL (wet)

Prepared: 09/14/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0395	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0125	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:52

SO-TC-224A-090921
21I0106-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/09/2021 12:45

Instrument: Accumet AB150 Analyst: BF

Analyzed: 09/15/2021 17:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21I0106-01 A

Preparation Batch: BJI0415

Sample Size: 20.21 g (wet)

Prepared: 09/15/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.67	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:52

SO-TC-224B-090921
21I0106-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 09/09/2021 13:00

Instrument: ICP2 Analyst: MVP

Analyzed: 09/15/2021 14:47

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21I0106-02 A 03

Preparation Batch: BJI0384

Sample Size: 25 mL (wet)

Prepared: 09/14/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0713	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:52

SO-TC-224B-090921
21I0106-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/09/2021 13:00

Instrument: Accumet AB150 Analyst: BF

Analyzed: 09/15/2021 17:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21I0106-02 A

Preparation Batch: BJI0415

Sample Size: 20.97 g (wet)

Prepared: 09/15/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.71	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:52

SO-TC-224C-090921
21I0106-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 09/09/2021 13:15

Instrument: ICP2 Analyst: MVP

Analyzed: 09/15/2021 14:50

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21I0106-03 A 03

Preparation Batch: BJI0384

Sample Size: 25 mL (wet)

Prepared: 09/14/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0085	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:52

SO-TC-224C-090921
21I0106-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/09/2021 13:15

Instrument: Accumet AB150 Analyst: BF

Analyzed: 09/15/2021 17:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21I0106-03 A

Preparation Batch: BJI0415

Sample Size: 20.41 g (wet)

Prepared: 09/15/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	5.77	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:52

TCLP Metals and Metallic Compounds - Quality Control

Batch BJI0384 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJI0384-BLK1)						Prepared: 14-Sep-2021 Analyzed: 15-Sep-2021 15:13					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:52

Wet Chemistry - Quality Control

Batch BJI0415 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BJI0415-BS1)									
Prepared: 15-Sep-2021 Analyzed: 15-Sep-2021 17:03									
pH	7.05	0.01	0.01	pH Units	7.00	101	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:52

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Sep-2021 21:52

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: ONE DATA PACKAGE FOR YOUR REVIEW AND APPROVAL

From Keith Johnston <KJohnston@tpchd.org>

Date Thu 10/14/2021 8:07 AM

To 'JEFFREY KING' <jking@perc-nw.com>

Cc kking perc-nw.com <kking@perc-nw.com>; Dana Haugen (danah@wcnx.org) <danah@wcnx.org>; Jeff Bishop <JeffBis@WasteConnections.com>; Maria F (MariaF@wcnx.org) <MariaF@wcnx.org>; Mr George Duvendack (GeorgeD@WasteConnections.com) <GeorgeD@WasteConnections.com>; Olivier Moi <OlivierA@WasteConnections.com>; Rebecca Gunter (RebeccaG@wcnx.org) <RebeccaG@wcnx.org>; Robin Henne (robinhe@wcnx.org) <robinhe@wcnx.org>; Ryan Roth <ryan.roth@wasteconnections.com>; Tiffany Helm <tiffany.helm@wasteconnections.com>

Good morning,

I have reviewed this lab data and these soils are acceptable for disposal under WDA 2526R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management

Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>

Sent: Wednesday, October 13, 2021 3:36 PM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: ONE DATA PACKAGE FOR YOUR REVIEW AND APPROVAL

CAUTION: External Email

Keith:

Attached is one data package for your review and approval. The soils that the analysis represents are from the Superlon Plastics site (WDA Permit number 2526R). Each sample represents approximately 23 CY of soil. The following table lists the results.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-225A-092821	ND	0.0142	8.8	Asking for approval
SO-TC-225B-092821	ND	0.0269	9.13	Asking for approval

SO-TC-225C-092821	ND	0.0282	8.83	Asking for approval
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Please let me know if you have any questions.

Thanks
Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

PLEASE use this email address when communicating with me. My former email (jking@perc-nw.com) has been compromised.

This communication is for use by the intended recipient and contains information that may be privileged, confidential or copyrighted under applicable law. If you are not the intended recipient, you are hereby formally notified that any use, copying or distribution of this e-mail, in whole or in part, is strictly prohibited. Please notify the sender by return e-mail and delete this e-mail from your system. This e-mail does not constitute a consent to the use of sender's contact information for direct marketing purposes or for transfers of data to third parties. Thank you.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

11 October 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
2110414

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2021.10.11 11:07:14
-07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager





PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2021 11:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-225A-092821	21I0414-01	Solid	28-Sep-2021 13:54	28-Sep-2021 16:38
SO-TC-225B-092821	21I0414-02	Solid	28-Sep-2021 14:04	28-Sep-2021 16:38
SO-TC-225C-092821	21I0414-03	Solid	28-Sep-2021 14:14	28-Sep-2021 16:38



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2021 11:04

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 2110414

Sample receipt

Samples as listed on the preceding page were received 28-Sep-2021 16:38 under ARI work order 2110414. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 2110414. The matrix spike (MS) percent recoveries and duplicate (DUP) relative percent difference (RPD) were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon Plasters

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 21I0414

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1638

23.3

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 2565

Cooler Accepted by: JS

Date: 09/28/2011

Time: 1638

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually JS Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: RV Date: 9/29/21 Time: 0911 Labels checked by: DL

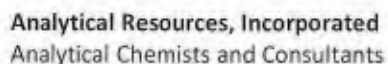
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

Completed by: SS Date: 09/28/2011 Time: 1638
00070F Cooler Temperature Compliance Form Ver



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2021 11:04

SO-TC-225A-092821
21I0414-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 09/28/2021 13:54

Instrument: ICP2 Analyst: SKD

Analyzed: 10/01/2021 18:24

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21I0414-01 A 02

Preparation Batch: BJI0903

Sample Size: 25 mL (wet)

Prepared: 10/01/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0142	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2021 11:04

SO-TC-225A-092821
21I0414-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/28/2021 13:54

Instrument: Accumet AB150 Analyst: UW

Analyzed: 10/04/2021 11:25

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21I0414-01 A 02

Preparation Batch: BJJ0051

Sample Size: 20.12 g (wet)

Prepared: 10/04/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.80	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2021 11:04

SO-TC-225B-092821
21I0414-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 09/28/2021 14:04

Instrument: ICP2 Analyst: SKD

Analyzed: 10/01/2021 18:31

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21I0414-02 A 02

Preparation Batch: BJI0903

Sample Size: 25 mL (wet)

Prepared: 10/01/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0269	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2021 11:04

SO-TC-225B-092821
21I0414-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/28/2021 14:04

Instrument: Accumet AB150 Analyst: UW

Analyzed: 10/04/2021 11:25

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21I0414-02 A 02

Preparation Batch: BJJ0051

Sample Size: 20.12 g (wet)

Prepared: 10/04/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.13	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2021 11:04

SO-TC-225C-092821
21I0414-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 09/28/2021 14:14

Instrument: ICP2 Analyst: SKD

Analyzed: 10/01/2021 18:34

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21I0414-03 A 02

Preparation Batch: BJI0903

Sample Size: 25 mL (wet)

Prepared: 10/01/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0282	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2021 11:04

SO-TC-225C-092821
21I0414-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/28/2021 14:14

Instrument: Accumet AB150 Analyst: UW

Analyzed: 10/04/2021 11:25

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21I0414-03 A 02

Preparation Batch: BJJ0051

Sample Size: 20.03 g (wet)

Prepared: 10/04/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.83	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2021 11:04

TCLP Metals and Metallic Compounds - Quality Control

Batch BJI0903 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJI0903-BLK1)						Prepared: 01-Oct-2021 Analyzed: 01-Oct-2021 17:46					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	0.0138	0.0065	0.100	mg/L							J
Duplicate (BJI0903-DUP1)						Source: 21I0414-01 Prepared: 01-Oct-2021 Analyzed: 01-Oct-2021 18:09					
Arsenic	ND	0.0140	0.250	mg/L		ND					U
Lead	0.0220	0.0065	0.100	mg/L		0.0142			43.20	20	L, J
Matrix Spike (BJI0903-MS1)						Source: 21I0414-01 Prepared: 01-Oct-2021 Analyzed: 01-Oct-2021 18:26					
Arsenic	4.33	0.0140	0.250	mg/L	4.00	ND	108	75-125			
Lead	4.01	0.0065	0.100	mg/L	4.00	0.0142	99.9	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2021 11:04

Wet Chemistry - Quality Control

Batch BJJ0051 - EPA 9045D

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BJJ0051-BS1)									
Prepared: 04-Oct-2021 Analyzed: 04-Oct-2021 11:25									
pH	6.99	0.01	0.01	pH Units	17.5	39.9	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2021 11:04

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Oct-2021 11:04

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: two data packages for your review and approval.

From Keith Johnston <KJohnston@tpchd.org>

Date Tue 11/16/2021 3:21 PM

To 'JEFFREY KING' <jking@perc-nw.com>

Cc EH SolidWaste <EHSolidWaste@tpchd.org>; kking perc-nw.com <kking@perc-nw.com>; Dana Haugen (danah@wcnx.org) <danah@wcnx.org>; Jeff Bishop <JeffBis@WasteConnections.com>; Kevin Green <KevinG@WasteConnections.com>; Maria F (MariaF@wcnx.org) <MariaF@wcnx.org>; Mr George Duvendack (GeorgeD@WasteConnections.com) <GeorgeD@WasteConnections.com>; Olivier Moi <OlivierA@WasteConnections.com>; Rebecca Gunter (RebeccaG@wcnx.org) <RebeccaG@wcnx.org>; Robin Henne (robinhe@wcnx.org) <robinhe@wcnx.org>; Ryan Roth <ryan.roth@wasteconnections.com>; Tiffany Helm <tiffany.helm@wasteconnections.com>

Jeff,

I have reviewed the sample data and these soils are acceptable for disposal under WDA 2526R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management

Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>

Sent: Monday, November 15, 2021 2:59 PM

To: Keith Johnston <KJohnston@tpchd.org>

Cc: EH SolidWaste <EHSolidWaste@tpchd.org>; 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: two data packages for your review and approval.

CAUTION: External Email

Keith:

Attached are two data packages for your review and approval. The soils that the analysis represents are from the Superlon Plastics site (WDA Permit number 2526R). Each sample represents approximately 23 CY of soil. Please let me know if you have any questions. BTW: We will be shutting down for the year on December 15. The last data packages that I will be sending you should be around December 13th. We will not start work again until March 1 2022.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-226A-110321	0.047	0.24	8.97	Asking for approval
SO-TC-226B-110321	0.16	0.456	9	Asking for approval
SO-TC-226C-110321	0.0206	ND	6.53	Asking for approval
SO-TC-227A-110821	ND	0.101	8.75	Asking for approval
SO-TC-227C-110821	ND	0.201	8.75	Asking for approval
SO-TC-227A-110821	ND	0.1	9	Asking for approval

Thanks for everything
Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

PLEASE use this email address when communicating with me. My former email (jking@perc-nw.com) has been compromised.

This communication is for use by the intended recipient and contains information that may be privileged, confidential or copyrighted under applicable law. If you are not the intended recipient, you are hereby formally notified that any use, copying or distribution of this e-mail, in whole or in part, is strictly prohibited. Please notify the sender by return e-mail and delete this e-mail from your system. This e-mail does not constitute a consent to the use of sender's contact information for direct marketing purposes or for transfers of data to third parties. Thank you.



Analytical Resources, LLC
Analytical Chemists and Consultants

09 November 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21K0067

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2021.11.09 17:58:59
-08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 21K0067		Turn-around Requested: 3 DAY		Date: 11/3/2021		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC		Phone: 4253480921		Page: of							
Client Contact: Kenny King		No. of Coolers:		Cooler Temps: 19.8							
Client Project Name: Superlon Plastics				Analysis Requested						Notes/Comments	
Client Project #: SLON		Samplers: KING		TCLP 1311 As/Pb Only		pH 9045C					
Sample ID	Date	Time	Matrix	No. Containers							
SO-TC-226A-110321	11/03/21	13:40	SOIL	1	✓	✓					
SO-TC-226B-110321	11/03/21	13:50	SOIL	1	✓	✓					
SO-TC-226C-110321	11/03/21	14:00	SOIL	1	✓	✓					
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Dimitri Comradze</i>		Relinquished by: (Signature)		Received by: (Signature)	
				Printed Name: Kenny King		Printed Name: Dimitri Comradze		Printed Name:		Printed Name:	
				Company: PERC		Company: ARI		Company:		Company:	
				Date & Time: 11/3/2021 16:55		Date & Time: 11/03/21 1655		Date & Time:		Date & Time:	

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2021 17:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-226A-110321	21K0067-01	Solid	03-Nov-2021 13:40	03-Nov-2021 16:55
SO-TC-226B-110321	21K0067-02	Solid	03-Nov-2021 13:50	03-Nov-2021 16:55
SO-TC-226C-110321	21K0067-03	Solid	03-Nov-2021 14:00	03-Nov-2021 16:55



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2021 17:54

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21K0067

Sample receipt

Samples as listed on the preceding page were received 03-Nov-2021 16:55 under ARI work order 21K0067. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 21K0067-01 in batch BJK0204. The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Sample specific QC was performed in association with sample 21K0067-01 in batch BJK0157. The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 2150067

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES ☐ NO ☒

Were custody papers included with the cooler? YES ☒ NO ☐

Were custody papers properly filled out (ink, signed, etc.) YES ☒ NO ☐

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1655

198

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 2585

Cooler Accepted by: DL Date: 11/03/21 Time: 1655

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES ☐ NO ☒

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES ☒ NO ☐

How were bottles sealed in plastic bags? Individually ☐ Grouped ☒ Not ☐

Did all bottles arrive in good condition (unbroken)? YES ☒ NO ☐

Were all bottle labels complete and legible? YES ☒ NO ☐

Did the number of containers listed on COC match with the number of containers received? YES ☒ NO ☐

Did all bottle labels and tags agree with custody papers? YES ☒ NO ☐

Were all bottles used correct for the requested analyses? YES ☒ NO ☐

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA ☒ YES ☐

Were all VOC vials free of air bubbles? NA ☒ YES ☐

Was sufficient amount of sample sent in each bottle? YES ☒ NO ☐

Date VOC Trip Blank was made at ARI: NA ☒

Were the sample(s) split by ARI? NA ☒ YES ☐ Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: AP Date: 11/04/21 Time: 829 Labels checked by: JBW

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 21K0067

Cooler#: _____ Temperature(°C): 19.8

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

<u>Samples Received</u>	<u>Agave</u>	<u>62</u>

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: DL

Date: 11/03/21 Time: 1655

00070F

Cooler Temperature Compliance Form

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2021 17:54

SO-TC-226A-110321
21K0067-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/03/2021 13:40

Instrument: ICP2 Analyst: MVP

Analyzed: 11/08/2021 17:07

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0067-01 A 02

Preparation Batch: BJK0157

Sample Size: 25 mL (wet)

Prepared: 11/05/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	5	0.0140	0.250	0.0470	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.240	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2021 17:54

SO-TC-226A-110321
21K0067-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/03/2021 13:40

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/09/2021 11:40

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21K0067-01 A

Preparation Batch: BJK0204

Sample Size: 20.0798 g (wet)

Prepared: 11/09/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.97	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2021 17:54

SO-TC-226B-110321
21K0067-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/03/2021 13:50

Instrument: ICP2 Analyst: MVP

Analyzed: 11/08/2021 17:15

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0067-02 A 02

Preparation Batch: BJK0157

Sample Size: 25 mL (wet)

Prepared: 11/05/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.160	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.456	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2021 17:54

SO-TC-226B-110321
21K0067-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/03/2021 13:50

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/09/2021 11:40

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BJK0204
Prepared: 11/09/2021

Sample Size: 20.0062 g (wet)
Final Volume: 20 mL

Extract ID: 21K0067-02 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.00	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2021 17:54

SO-TC-226C-110321
21K0067-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/03/2021 14:00

Instrument: ICP2 Analyst: MVP

Analyzed: 11/08/2021 17:18

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0067-03 A 02

Preparation Batch: BJK0157

Sample Size: 25 mL (wet)

Prepared: 11/05/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0206	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2021 17:54

SO-TC-226C-110321
21K0067-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/03/2021 14:00

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/09/2021 11:40

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21K0067-03 A

Preparation Batch: BJK0204

Sample Size: 20.7124 g (wet)

Prepared: 11/09/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	6.53	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2021 17:54

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BJK0157 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJK0157-BLK1)						Prepared: 05-Nov-2021 Analyzed: 08-Nov-2021 16:51					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BJK0157-DUP1)						Source: 21K0067-01 Prepared: 05-Nov-2021 Analyzed: 08-Nov-2021 17:04					
Arsenic	ND	0.0140	0.250	mg/L		0.0470					U
Lead	0.241	0.0065	0.100	mg/L		0.240			0.48	20	
Matrix Spike (BJK0157-MS1)						Source: 21K0067-01 Prepared: 05-Nov-2021 Analyzed: 08-Nov-2021 17:10					
Arsenic	4.31	0.0140	0.250	mg/L	4.00	0.0470	107	75-125			
Lead	4.26	0.0065	0.100	mg/L	4.00	0.240	100	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2021 17:54

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BJK0204 - EPA 9045D

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BJK0204-BS1)					Prepared: 09-Nov-2021 Analyzed: 09-Nov-2021 11:40					
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BJK0204-DUP1)					Source: 21K0067-01 Prepared: 09-Nov-2021 Analyzed: 09-Nov-2021 11:40					
pH	9.02	0.01	0.01	pH Units	8.97			0.56	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2021 17:54

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Nov-2021 17:54

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

15 November 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21K0137

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2021.11.15 14:14:46
-08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 21K037	Turn-around Requested: 3 DAY
ARI Client Company: PERC	Phone: 4253480921
Client Contact: Kenny King	

Page: 1 of 1

No. of Coolers: 2 Cooler Temps: 24.4



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics

Client Project #: SLON	Samplers: KING
-------------------------------	-----------------------

Analysis Requested

Notes/Comments

TCLP 1311
As/Pb Only

pH 9.045C

[illegible]

Comments/Special Instructions

Relinquished by:

(Signature)

Printed Name:

55

Средства:

PM

Date & Time

Received by:

(Signature)

Printed Name

Am

Company:

10

Date & Time:

Relinquished by:

(Signature)

Printed Name: _____

1. *Journal of the American Medical Association*, 1997; 277: 1033-1036.

Company:

12

Date & Time:

Received by:

(Signature)

Printed Name _____

100

[illegible]

1

Date & Time:

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Nov-2021 14:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-227A-110821	21K0137-01	Solid	08-Nov-2021 10:50	08-Nov-2021 15:41
SO-TC-227B-110821	21K0137-02	Solid	08-Nov-2021 11:00	08-Nov-2021 15:41
SO-TC-227C-110821	21K0137-03	Solid	08-Nov-2021 11:10	08-Nov-2021 15:41



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Nov-2021 14:12

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21K0137

Sample receipt

Samples as listed on the preceding page were received 08-Nov-2021 15:41 under ARI work order 21K0137. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): _____ (NA)
Assigned ARI Job No: 21K0137

Project Name: Superlon Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES (NO)
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 24.4
Time 1541
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO2565

Cooler Accepted by: JP Date: 11/08/21 Time: 1541

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES (NO)
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: _____
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

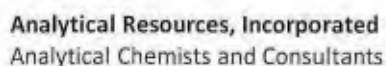
Samples Logged by: JP Date: 11/8/21 Time: 16:19 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: AP Date: 11/08/21 Time: 1541
00070F Cooler Temperature Compliance Form



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Nov-2021 14:12

SO-TC-227A-110821
21K0137-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/08/2021 10:50

Instrument: ICP2 Analyst: MVP

Analyzed: 11/12/2021 12:03

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0137-01 A 01

Preparation Batch: BJK0280

Sample Size: 25 mL (wet)

Prepared: 11/11/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.101	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Nov-2021 14:12

SO-TC-227A-110821
21K0137-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/08/2021 10:50

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/09/2021 11:40

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21K0137-01 A

Preparation Batch: BJK0204

Sample Size: 20.3943 g (wet)

Prepared: 11/09/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.75	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Nov-2021 14:12

SO-TC-227B-110821
21K0137-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/08/2021 11:00

Instrument: ICP2 Analyst: MVP

Analyzed: 11/12/2021 12:06

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0137-02 A 01

Preparation Batch: BJK0280

Sample Size: 25 mL (wet)

Prepared: 11/11/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.201	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Nov-2021 14:12

SO-TC-227B-110821
21K0137-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/08/2021 11:00

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/09/2021 11:40

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BJK0204
Prepared: 11/09/2021

Sample Size: 20.0573 g (wet)
Final Volume: 20 mL

Extract ID: 21K0137-02 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.75	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Nov-2021 14:12

SO-TC-227C-110821
21K0137-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/08/2021 11:10

Instrument: ICP2 Analyst: MVP

Analyzed: 11/12/2021 12:09

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0137-03 A 01

Preparation Batch: BJK0280

Sample Size: 25 mL (wet)

Prepared: 11/11/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.100	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Nov-2021 14:12

SO-TC-227C-110821
21K0137-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/08/2021 11:10

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/09/2021 11:40

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21K0137-03 A

Preparation Batch: BJK0204

Sample Size: 20.0585 g (wet)

Prepared: 11/09/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.00	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Nov-2021 14:12

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BJK0280 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BJK0280-BLK1)					Prepared: 11-Nov-2021 Analyzed: 12-Nov-2021 11:53					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	0.0162	0.0065	0.100	mg/L						J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Nov-2021 14:12

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BJK0204 - EPA 9045D

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BJK0204-BS1)									
Prepared: 09-Nov-2021 Analyzed: 09-Nov-2021 11:40									
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Nov-2021 14:12

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



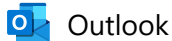
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Nov-2021 14:12

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Three data packages for your review and approval

From EH SolidWaste <EHSolidWaste@tpchd.org>

Date Tue 11/30/2021 3:33 PM

To 'JEFFREY KING' <jking@percnw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>; Dana Haugen (danah@wcnx.org) <danah@wcnx.org>; Jeff Bishop <JeffBis@WasteConnections.com>; Kevin Green <KevinG@WasteConnections.com>; Maria F (MariaF@wcnx.org) <MariaF@wcnx.org>; Mr George Duvendack (GeorgeD@WasteConnections.com) <GeorgeD@WasteConnections.com>; Olivier Moi <OlivierA@WasteConnections.com>; Rebecca Gunter (RebeccaG@wcnx.org) <RebeccaG@wcnx.org>; Robin Henne (robinhe@wcnx.org) <robinhe@wcnx.org>; Ryan Roth <ryan.roth@wasteconnections.com>; Tiffany Helm <tiffany.helm@wasteconnections.com>

Hi Jeff,

I have reviewed these samples and these soils are acceptable for disposal under WDA 2526R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management

Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@percnw.com>

Sent: Wednesday, November 24, 2021 10:54 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: Three data packages for your review and approval

CAUTION: External Email

Keith:

Attached are three data packages for your review and approval. These data is related with for soils originating at the Superlon Plastics site (WDA Permit number 2526R). Each sample represents approximately 23 CY of soil. Please let me know if you have any questions.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
-----------	---	--------------------------------------	----	---------

SO-TC-228A-111021	ND	0.379	8.78	Asking for approval
SO-TC-228B-111021	0.0201	0.401	8.86	Asking for approval
SO-TC-228C-111021	ND	0.233	8.84	Asking for approval
SO-TC-229A-111521	ND	0.0519	9.23	Asking for approval
SO-TC-229B-111521	ND	0.0166	9.23	Asking for approval
SO-TC-229C-111521	ND	0.0749	9.04	Asking for approval
SO-TC-230A-111621	ND	0.297	9.12	Asking for approval
SO-TC-230B-111621	ND	0.453	9.08	Asking for approval
SO-TC-230C-111621	ND	0.214	8.81	Asking for approval

Thank you
Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

PLEASE use this email address when communicating with me. My former email (jking@perc-nw.com) has been compromised.

This communication is for use by the intended recipient and contains information that may be privileged, confidential or copyrighted under applicable law. If you are not the intended recipient, you are hereby formally notified that any use, copying or distribution of this e-mail, in whole or in part, is strictly prohibited. Please notify the sender by return e-mail and delete this e-mail from your system. This e-mail does not constitute a consent to the use of sender's contact information for direct marketing purposes or for transfers of data to third parties. Thank you.



Analytical Resources, LLC
Analytical Chemists and Consultants

17 November 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21K0190

Associated SDG ID(s)
N/A

Shelly Fishel Digitally signed by Shelly Fishel
Date: 2021.11.17 14:37:17 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 21K0190		Turn-around Requested: 3 DAY		Date: 11/10/2021		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC		Phone: 4253480921		Page: of							
Client Contact: Kenny King				No. of Coolers: 1 Cooler Temps: 20.9							
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments			
Client Project #: SLON		Samplers: KING		TCLP 1311 As/Pb Only		pH 9045C					
Sample ID	Date	Time	Matrix	No. Containers							
SO-TC-228A-111021	11/10/21	10:40	SOIL	1	✓	✓					
SO-TC-228B-111021	11/10/21	10:50	SOIL	1	✓	✓					
SO-TC-228C-111021	11/10/21	11:00	SOIL	1	✓	✓					
Comments/Special Instructions				Relinquished by (Signature): <i>[Signature]</i>		Received by (Signature): <i>[Signature]</i>		Relinquished by (Signature):		Received by (Signature):	
				Printed Name: Jeff King		Printed Name: Raven Barbera		Printed Name:		Printed Name:	
				Company: PERC		Company: ARI		Company:		Company:	
				Date & Time: 11/10/21 3:48		Date & Time: 11/10/21 1548		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI releases ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Nov-2021 14:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-228A-111021	21K0190-01	Solid	10-Nov-2021 10:40	10-Nov-2021 15:48
SO-TC-228B-111021	21K0190-02	Solid	10-Nov-2021 10:50	10-Nov-2021 15:48
SO-TC-228C-111021	21K0190-03	Solid	10-Nov-2021 11:00	10-Nov-2021 15:48



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Nov-2021 14:31

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21K0190

Sample receipt

Samples as listed on the preceding page were received 10-Nov-2021 15:48 under ARI work order 21K0190. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 21K0190

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1548 20.9

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 000-1009708

Cooler Accepted by: RB Date: 11/10/21 Time: 1548

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JSS Date: 11/10/21 Time: 1633 Labels checked by: JSS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 21K0190

Cooler#:

Temperature(°C):

20.9°C

Sample ID

Bottle Count

Bottle Type

samples received above 6°C

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Completed by: RS

Date: 11/10/21

Time: 1548



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Nov-2021 14:31

SO-TC-228A-111021
21K0190-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/10/2021 10:40

Instrument: ICP2 Analyst: MVP

Analyzed: 11/15/2021 16:28

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0190-01 A 02

Preparation Batch: BJK0323

Sample Size: 25 mL (wet)

Prepared: 11/12/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.379	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Nov-2021 14:31

SO-TC-228A-111021
21K0190-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/10/2021 10:40

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/15/2021 10:30

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21K0190-01 A

Preparation Batch: BJK0358

Sample Size: 20.18 g (wet)

Prepared: 11/15/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.78	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Nov-2021 14:31

SO-TC-228B-111021
21K0190-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/10/2021 10:50

Instrument: ICP2 Analyst: MVP

Analyzed: 11/15/2021 16:36

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0190-02 A 02

Preparation Batch: BJK0323

Sample Size: 25 mL (wet)

Prepared: 11/12/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0201	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.401	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Nov-2021 14:31

SO-TC-228B-111021
21K0190-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/10/2021 10:50

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/15/2021 10:30

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21K0190-02 A

Preparation Batch: BJK0358

Sample Size: 20.331 g (wet)

Prepared: 11/15/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.86	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Nov-2021 14:31

SO-TC-228C-111021
21K0190-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/10/2021 11:00

Instrument: ICP2 Analyst: MVP

Analyzed: 11/15/2021 16:39

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0190-03 A 02

Preparation Batch: BJK0323

Sample Size: 25 mL (wet)

Prepared: 11/12/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.233	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Nov-2021 14:31

SO-TC-228C-111021
21K0190-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/10/2021 11:00

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/15/2021 10:30

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21K0190-03 A

Preparation Batch: BJK0358

Sample Size: 20.3906 g (wet)

Prepared: 11/15/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.84	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Nov-2021 14:31

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BJK0323 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJK0323-BLK1)						Prepared: 12-Nov-2021 Analyzed: 15-Nov-2021 16:07					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	0.0094	0.0065	0.100	mg/L							J
Duplicate (BJK0323-DUP1)						Source: 21K0190-01 Prepared: 12-Nov-2021 Analyzed: 15-Nov-2021 16:25					
Arsenic	ND	0.0140	0.250	mg/L		ND					U
Lead	0.356	0.0065	0.100	mg/L		0.379			6.18	20	
Matrix Spike (BJK0323-MS1)						Source: 21K0190-01 Prepared: 12-Nov-2021 Analyzed: 15-Nov-2021 16:31					
Arsenic	4.45	0.0140	0.250	mg/L	4.00	ND	111	75-125			
Lead	4.73	0.0065	0.100	mg/L	4.00	0.379	109	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Nov-2021 14:31

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BJK0358 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BJK0358-BS1)					Prepared: 15-Nov-2021 Analyzed: 15-Nov-2021 10:30					
pH	7.01	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BJK0358-DUP1)					Source: 21K0190-01 Prepared: 15-Nov-2021 Analyzed: 15-Nov-2021 10:30					
pH	8.82	0.01	0.01	pH Units	8.78			0.46	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Nov-2021 14:31

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Nov-2021 14:31

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

19 November 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21K0266

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2021.11.19
14:49:15 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 21K0266		Turn-around Requested: 3 DAY		
ARI Client Company: PERC		Phone: 4253480921		
Client Contact: Kenny King				
Client Project Name: Superlon Plastics				
Client Project #: SLON		Samplers: KING		
Sample ID	Date	Time	Matrix	No. Containers
SO-TC-229A-111521	11/15/21	10:35	SOIL	1
SO-TC-229B-111521	11/15/21	10:45	SOIL	1
SO-TC-229C-111521	11/15/21	10:55	SOIL	1
Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Art</i>	
	Printed Name: Kenny King		Printed Name: Art	
	Company: PERC		Company: A	
	Date & Time: 11/15/2021 16:41		Date & Time: 11/15	

[illegible]

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Nov-2021 14:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-229A-111521	21K0266-01	Solid	15-Nov-2021 10:35	15-Nov-2021 16:41
SO-TC-229B-111521	21K0266-02	Solid	15-Nov-2021 10:45	15-Nov-2021 16:41
SO-TC-229C-111521	21K0266-03	Solid	15-Nov-2021 10:55	15-Nov-2021 16:41



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Nov-2021 14:47

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21K0266

Sample receipt

Samples as listed on the preceding page were received 15-Nov-2021 16:41 under ARI work order 21K0266. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The duplicate (DUP) relative percent difference (RPD) and the matrix spike (MS) percent recoveries were within control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Super Ion Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 21K0266

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) _____

Time 1641

238

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO2565

Cooler Accepted by: AP

Date: 11/15/21

Time: 1641

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? _____

Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES NO

How were bottles sealed in plastic bags? _____

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) _____

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI _____

NA

Were the sample(s) split by ARI? NA

YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: AP

Date: 11/15/21

Time: 1648

Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 21K0266

Cooler#: _____ Temperature(°C): 23.8

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: AP Date: 11/15/21 Time: 1641



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Nov-2021 14:47

SO-TC-229A-111521
21K0266-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/15/2021 10:35

Instrument: ICP2 Analyst: MVP

Analyzed: 11/17/2021 18:08

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0266-01 A 02

Preparation Batch: BJK0444

Sample Size: 25 mL (wet)

Prepared: 11/17/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0519	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Nov-2021 14:47

SO-TC-229A-111521
21K0266-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/15/2021 10:35

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/18/2021 12:50

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21K0266-01 A

Preparation Batch: BJK0472

Sample Size: 20.0545 g (wet)

Prepared: 11/18/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.23	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Nov-2021 14:47

SO-TC-229B-111521
21K0266-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/15/2021 10:45

Instrument: ICP2 Analyst: MVP

Analyzed: 11/17/2021 18:15

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0266-02 A 02

Preparation Batch: BJK0444

Sample Size: 25 mL (wet)

Prepared: 11/17/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0166	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Nov-2021 14:47

SO-TC-229B-111521
21K0266-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/15/2021 10:45

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/18/2021 12:50

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BJK0472
Prepared: 11/18/2021

Sample Size: 20.206 g (wet)
Final Volume: 20 mL

Extract ID: 21K0266-02 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.23	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Nov-2021 14:47

SO-TC-229C-111521
21K0266-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/15/2021 10:55

Instrument: ICP2 Analyst: MVP

Analyzed: 11/17/2021 18:18

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0266-03 A 02

Preparation Batch: BJK0444

Sample Size: 25 mL (wet)

Prepared: 11/17/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0749	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Nov-2021 14:47

SO-TC-229C-111521
21K0266-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/15/2021 10:55

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/18/2021 12:50

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BJK0472
Prepared: 11/18/2021

Sample Size: 20.337 g (wet)
Final Volume: 20 mL

Extract ID: 21K0266-03 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.04	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Nov-2021 14:47

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BJK0444 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJK0444-BLK1)					Prepared: 17-Nov-2021 Analyzed: 17-Nov-2021 17:51						
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BJK0444-DUP1)					Source: 21K0266-01 Prepared: 17-Nov-2021 Analyzed: 17-Nov-2021 18:05						
Arsenic	ND	0.0140	0.250	mg/L		ND					U
Lead	0.0419	0.0065	0.100	mg/L		0.0519			21.20	20	L, J
Matrix Spike (BJK0444-MS1)					Source: 21K0266-01 Prepared: 17-Nov-2021 Analyzed: 17-Nov-2021 18:10						
Arsenic	4.32	0.0140	0.250	mg/L	4.00	ND	108	75-125			
Lead	4.05	0.0065	0.100	mg/L	4.00	0.0519	99.9	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Nov-2021 14:47

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BJK0472 - EPA 9045D

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BJK0472-BS1)					Prepared: 18-Nov-2021		Analyzed: 18-Nov-2021 12:50			
pH	7.02	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BJK0472-DUP1)					Source: 21K0266-01		Prepared: 18-Nov-2021		Analyzed: 18-Nov-2021 12:50	
pH	9.30	0.01	0.01	pH Units	9.23		0.76		20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Nov-2021 14:47

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Nov-2021 14:47

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

23 November 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21K0280

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2021.11.23
17:19:47 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager





PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Nov-2021 17:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-230A-111621	21K0280-01	Solid	16-Nov-2021 14:15	16-Nov-2021 16:41
SO-TC-230B-111621	21K0280-02	Solid	16-Nov-2021 14:25	16-Nov-2021 16:41
SO-TC-230C-111621	21K0280-03	Solid	16-Nov-2021 14:35	16-Nov-2021 16:41



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Nov-2021 17:17

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21K0280

Sample receipt

Samples as listed on the preceding page were received 16-Nov-2021 16:41 under ARI work order 21K0280. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): _____ (NA)
Assigned ARI Job No: 21K0280

Project Name: Superior Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other
Tracking No. _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES ☐ NO ☒
Were custody papers included with the cooler? YES ☒ NO ☐
Were custody papers properly filled out (ink, signed, etc.) YES ☒ NO ☐
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 164
Time 11/16/21
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID# 0002565

Cooler Accepted by DL Date: 11/16/21 Time: 1641

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES ☐ NO ☒
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other _____
Was sufficient ice used (if appropriate)? NA YES ☐ NO ☒
How were bottles sealed in plastic bags? Individually ☐ Grouped ☒
Did all bottles arrive in good condition (unbroken)? YES ☒ NO ☐
Were all bottle labels complete and legible? YES ☒ NO ☐
Did the number of containers listed on COC match with the number of containers received? YES ☒ NO ☐
Did all bottle labels and tags agree with custody papers? YES ☒ NO ☐
Were all bottles used correct for the requested analyses? YES ☒ NO ☐
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES ☐ NO ☒
Were all VOC vials free of air bubbles? NA YES ☐ NO ☒
Was sufficient amount of sample sent in each bottle? YES ☒ NO ☐
Date VOC Trip Blank was made at ARI NA
Were the sample(s) split by ARI? NA YES ☐ NO ☒ Date/Time: _____ Equipment _____ Split by: _____

Samples Logged by: AP Date: 11/17/21 Time: 0830 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Temperature Compliance Form

ARI Work Order: 21K0280

Cooler#:

Temperature(°C): 14.9

Sample ID

Bottle Count

Bottle Type

Samples Received Above 6°C

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Completed by: DL

Date: 11/16/21

Time: 1641



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Nov-2021 17:17

SO-TC-230A-111621
21K0280-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/16/2021 14:15

Instrument: ICP2 Analyst: MVP

Analyzed: 11/19/2021 16:28

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0280-01 A 01

Preparation Batch: BJK0478

Sample Size: 25 mL (wet)

Prepared: 11/18/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.297	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Nov-2021 17:17

SO-TC-230A-111621
21K0280-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/16/2021 14:15

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/18/2021 12:50

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BJK0472
Prepared: 11/18/2021

Sample Size: 20.1691 g (wet)
Final Volume: 20 mL

Extract ID: 21K0280-01 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.12	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Nov-2021 17:17

SO-TC-230B-111621
21K0280-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/16/2021 14:25

Instrument: ICP2 Analyst: MVP

Analyzed: 11/19/2021 16:31

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0280-02 A 01

Preparation Batch: BJK0478

Sample Size: 25 mL (wet)

Prepared: 11/18/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.453	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Nov-2021 17:17

SO-TC-230B-111621
21K0280-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/16/2021 14:25

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/18/2021 12:50

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BJK0472
Prepared: 11/18/2021

Sample Size: 20.2574 g (wet)
Final Volume: 20 mL

Extract ID: 21K0280-02 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.08	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Nov-2021 17:17

SO-TC-230C-111621
21K0280-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/16/2021 14:35

Instrument: ICP2 Analyst: MVP

Analyzed: 11/19/2021 16:34

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0280-03 A 01

Preparation Batch: BJK0478

Sample Size: 25 mL (wet)

Prepared: 11/18/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.214	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Nov-2021 17:17

SO-TC-230C-111621
21K0280-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/16/2021 14:35

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/18/2021 12:50

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21K0280-03 A

Preparation Batch: BJK0472

Sample Size: 20.1519 g (wet)

Prepared: 11/18/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.81	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Nov-2021 17:17

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BJK0478 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BJK0478-BLK1)					Prepared: 18-Nov-2021 Analyzed: 19-Nov-2021 16:12					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Nov-2021 17:17

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BJK0472 - EPA 9045D

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BJK0472-BS1)						Prepared: 18-Nov-2021 Analyzed: 18-Nov-2021 12:50				
pH	7.02	0.01	0.01	pH Units	7.00	100	99.2-100.8			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Nov-2021 17:17

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-Nov-2021 17:17

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: 4 Data packages for your review and approval

From Keith Johnston <KJohnston@tpchd.org>

Date Wed 12/8/2021 3:28 PM

To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>; Dana Haugen (danah@wcnx.org) <danah@wcnx.org>; Jeff Bishop <JeffBis@WasteConnections.com>; Kevin Green <KevinG@WasteConnections.com>; Maria F (MariaF@wcnx.org) <MariaF@wcnx.org>; Mr George Duvendack (GeorgeD@WasteConnections.com) <GeorgeD@WasteConnections.com>; Olivier Moi <OlivierA@WasteConnections.com>; Rebecca Gunter (RebeccaG@wcnx.org) <RebeccaG@wcnx.org>; Robin Henne (robinhe@wcnx.org) <robinhe@wcnx.org>; Ryan Roth <ryan.roth@wasteconnections.com>; Tiffany Helm <tiffany.helm@wasteconnections.com>

Thank you, Jeff.

I have reviewed the data and these soils are acceptable for disposal under WDA 2526R.

Thank you and Happy Holidays to you!

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management

Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>

Sent: Monday, December 6, 2021 3:32 PM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: 4 Data packages for your review and approval

CAUTION: External Email

Keith:

Attached are 4 Data packages for your review and approval. These data are from soils originating at the Superlon Plastics site (WDA Permit number 2526R). Each sample represents approximately 23 CY of soil. Please let me know if you have any questions. This will be the last submittal from us in 2021. We are closing the site for the winter on December 15 but will resume again in March of 2022.

SAMPLE ID	Arsenic Concentration	Lead Concentration	pH	Request
-----------	--------------------------	-----------------------	----	---------

	(TCLP) mg/L	(TCLP) mg/L		
SO-TC-231A-111821	ND	0.24	9.09	Asking for approval
SO-TC-231B-111821	ND	0.362	8.54	Asking for approval
SO-TC-231C-111821	ND	0.152	8.45	Asking for approval
SO-TC-232A-112421	ND	0.322	9.07	Asking for approval
SO-TC-232B-112421	ND	0.923	9.05	Asking for approval
SO-TC-232C-112421	ND	0.166	8.99	Asking for approval
SO-TC-233A-113021	ND	0.104	8.79	Asking for approval
SO-TC-233B-113021	ND	0.119	9.06	Asking for approval
SO-TC-233C-113021	ND	0.0667	8.96	Asking for approval
SO-TC-234A-120121	ND	0.114	8.54	Asking for approval
SO-TC-234B-120121	ND	0.105	8.46	Asking for approval
SO-TC-234C-120121	ND	0.0681	8.85	Asking for approval

Thanks for all your help this year. It is appreciated.

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

PLEASE use this email address when communicating with me. My former email (jking@perc-nw.com) has been compromised.

This communication is for use by the intended recipient and contains information that may be privileged, confidential or copyrighted under applicable law. If you are not the intended recipient, you are hereby formally notified that any use, copying or distribution of this e-mail, in whole or in part, is strictly prohibited. Please notify the sender by return e-mail and delete this e-mail from your system. This e-mail does not constitute a consent to the use of sender's contact information for direct marketing purposes or for transfers of data to third parties. Thank you.



Analytical Resources, LLC
Analytical Chemists and Consultants

24 November 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21K0316

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2021.11.24
16:44:14 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



21K0316

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: <u>2170316</u>		Turn-around Requested: 3 Day		Date: 11/18/2021		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)		
ARI Client Company: PERC		Phone: 425-346-0921		Page: of				
Client Contact: Kenny King				No. of Coolers: Cooler Temps:				
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	pH 9045C			
Sample ID	Date	Time	Matrix	No. Containers				
SO-TC-231A-111821	11/18/21	10:30	Soil	1	✓	✓		
SO-TC-231B-111821	11/18/21	10:45	Soil	1	✓	✓		
SO-TC-231C-111821	11/18/21	11:00	Soil	1	✓	✓		
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>	Received by: (Signature) <i>OB</i>	Relinquished by: (Signature)	Received by: (Signature)	
				Printed Name: <i>Kenny King</i>	Printed Name: <i>Kabellie Heasley</i>	Printed Name:	Printed Name:	
				Company: <i>PERC</i>	Company: <i>ARI</i>	Company:	Company:	
				Date & Time: <i>11/18/21 11:47</i>	Date & Time: <i>11/18/21 11:47</i>	Date & Time:	Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Nov-2021 16:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-231A-111821	21K0316-01	Solid	18-Nov-2021 10:30	18-Nov-2021 11:47
SO-TC-231B-111821	21K0316-02	Solid	18-Nov-2021 10:45	18-Nov-2021 11:47
SO-TC-231C-111821	21K0316-03	Solid	18-Nov-2021 11:00	18-Nov-2021 11:47



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Nov-2021 16:43

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21K0316

Sample receipt

Samples as listed on the preceding page were received 18-Nov-2021 11:47 under ARI work order 21K0316. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): 11/18/21 NA
Assigned ARI Job No: 217 21K0316

Project Name: Superior Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES

NO

Were custody papers included with the cooler? _____

YES

NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES

NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) _____

Time 11:47

14.4

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 9708

Cooler Accepted by: [Signature] Date: 11/18/21 Time: 11:47

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES

NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: None

Was sufficient ice used (if appropriate)? _____

NA

YES

NO

How were bottles sealed in plastic bags? _____

Individually

Grouped

Not

Did all bottles arrive in good condition (unbroken)? _____

YES

NO

Were all bottle labels complete and legible? _____

YES

NO

Did the number of containers listed on COC match with the number of containers received? _____

YES

NO

Did all bottle labels and tags agree with custody papers? _____

YES

NO

Were all bottles used correct for the requested analyses? _____

YES

NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) _____

NA

YES

NO

Were all VOC vials free of air bubbles? _____

NA

YES

NO

Was sufficient amount of sample sent in each bottle? _____

YES

NO

Date VOC Trip Blank was made at ARI _____

NA

Were the sample(s) split by ARI? NA

YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: [Signature] Date: 11/19/21 Time: 1219 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 21K0316

Cooler#:

Temperature(°C):

19.9

Sample ID

Bottle Count

Bottle Type

Samples received above 6°C

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Cooler#:

Temperature(°C):

Sample ID

Bottle Count

Bottle Type

Completed by: [Signature]

Date:

11/18/21

Time:

11:47



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Nov-2021 16:43

SO-TC-231A-111821
21K0316-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/18/2021 10:30

Instrument: ICP2 Analyst: MVP

Analyzed: 11/23/2021 17:11

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0316-01 A 02

Preparation Batch: BJK0610

Sample Size: 25 mL (wet)

Prepared: 11/23/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.240	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Nov-2021 16:43

SO-TC-231A-111821
21K0316-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/18/2021 10:30

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/22/2021 11:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21K0316-01 A

Preparation Batch: BJK0562

Sample Size: 20.0751 g (wet)

Prepared: 11/22/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.09	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Nov-2021 16:43

SO-TC-231B-111821
21K0316-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/18/2021 10:45

Instrument: ICP2 Analyst: MVP

Analyzed: 11/23/2021 17:19

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0316-02 A 02

Preparation Batch: BJK0610

Sample Size: 25 mL (wet)

Prepared: 11/23/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.362	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Nov-2021 16:43

SO-TC-231B-111821
21K0316-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/18/2021 10:45

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/22/2021 11:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21K0316-02 A

Preparation Batch: BJK0562

Sample Size: 20.5144 g (wet)

Prepared: 11/22/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.54	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Nov-2021 16:43

SO-TC-231C-111821
21K0316-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/18/2021 11:00

Instrument: ICP2 Analyst: MVP

Analyzed: 11/23/2021 17:34

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0316-03 A 02

Preparation Batch: BJK0610

Sample Size: 25 mL (wet)

Prepared: 11/23/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.152	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Nov-2021 16:43

SO-TC-231C-111821
21K0316-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/18/2021 11:00

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/22/2021 11:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21K0316-03 A

Preparation Batch: BJK0562

Sample Size: 20.1626 g (wet)

Prepared: 11/22/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.45	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Nov-2021 16:43

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BJK0610 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJK0610-BLK1)						Prepared: 23-Nov-2021 Analyzed: 23-Nov-2021 16:51					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BJK0610-DUP1)						Source: 21K0316-01 Prepared: 23-Nov-2021 Analyzed: 23-Nov-2021 17:09					
Arsenic	0.0144	0.0140	0.250	mg/L		ND					J
Lead	0.244	0.0065	0.100	mg/L		0.240			1.61	20	
Matrix Spike (BJK0610-MS1)						Source: 21K0316-01 Prepared: 23-Nov-2021 Analyzed: 23-Nov-2021 17:14					
Arsenic	4.37	0.0140	0.250	mg/L	4.00	ND	109	75-125			
Lead	4.32	0.0065	0.100	mg/L	4.00	0.240	102	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Nov-2021 16:43

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BJK0562 - EPA 9045D

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BJK0562-BS1)					Prepared: 22-Nov-2021		Analyzed: 22-Nov-2021 11:20			
pH	7.01	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BJK0562-DUP1)					Source: 21K0316-01		Prepared: 22-Nov-2021		Analyzed: 22-Nov-2021 11:20	
pH	9.08	0.01	0.01	pH Units	9.09			0.11	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Nov-2021 16:43

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Nov-2021 16:43

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

02 December 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21K0405

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2021.12.02
17:14:15 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager



ARI Assigned Number: 21K0405	Turn-around Requested: 3 DAY
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Client Contact: **Kenny King**

Client Project #:	SLON	Samplers:	KING
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Sample ID	Date	Time	Matrix	No. Containers
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SO-TC-232B-112421	11/24/21	10:50	SOIL	1
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Comments/Special Instructions	Relinquished by: 	Received by:
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(Signature) <i>[Signature]</i>	(Signature) <i>[Signature]</i>
Printed Name <i>[Name]</i>	Printed Name <i>[Name]</i>

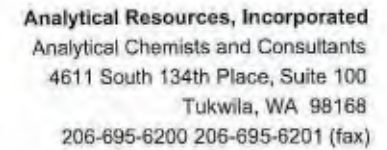
Text King		
Company:		Company:

PERC	
Date & Time: 1/1/2013 12:30	Date & Time:

	11/24/2021 14:30	11
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Page: of

No. of Coolers:	—	Cooler Temps:	15.4
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Analysis Requested								Notes/Comments

[illegible][illegible][illegible]

✓	✓							
✓	✓							

✓	✓								
✓	✓								

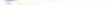
[illegible]

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[illegible][illegible][illegible]

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2	3							
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	Relinquished by: (Signature)	Received by: (Signature)
---	---------------------------------	-----------------------------

Soren Barberg	Printed Name:	Printed Name:
---------------	---------------	---------------

RI	Company: -	Company: -
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24/21	1238	Date & Time:	Date & Time:
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Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Dec-2021 17:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-232A-112421	21K0405-01	Solid	24-Nov-2021 10:40	24-Nov-2021 12:38
SO-TC-232B-112421	21K0405-02	Solid	24-Nov-2021 10:50	24-Nov-2021 12:38
SO-TC-232C-112421	21K0405-03	Solid	24-Nov-2021 11:00	24-Nov-2021 12:38



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Dec-2021 17:12

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21K0405

Sample receipt

Samples as listed on the preceding page were received 24-Nov-2021 12:38 under ARI work order 21K0405. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superion Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 21K0405

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1238 15.4

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# DOO J009708

Cooler Accepted by: RD Date: 11/24/21 Time: 1238

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

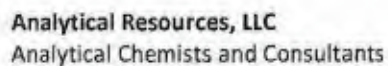
Samples Logged by: AP Date: 11/24/21 Time: 1249 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: AP for RB Date: 11/24/21 Time: 12:30

Cooler Temperature Compliance Form

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Dec-2021 17:12

SO-TC-232A-112421
21K0405-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/24/2021 10:40

Instrument: ICP2 Analyst: MVP

Analyzed: 12/01/2021 13:46

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0405-01 A 02

Preparation Batch: BJK0724

Sample Size: 25 mL (wet)

Prepared: 11/30/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.322	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Dec-2021 17:12

SO-TC-232A-112421
21K0405-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/24/2021 10:40

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/26/2021 10:45

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21K0405-01 A

Preparation Batch: BJK0681

Sample Size: 20.0507 g (wet)

Prepared: 11/26/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.07	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Dec-2021 17:12

SO-TC-232B-112421
21K0405-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/24/2021 10:50

Instrument: ICP2 Analyst: MVP

Analyzed: 12/01/2021 13:53

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0405-02 A 02

Preparation Batch: BJK0724

Sample Size: 25 mL (wet)

Prepared: 11/30/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.923	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Dec-2021 17:12

SO-TC-232B-112421
21K0405-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/24/2021 10:50

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/26/2021 10:45

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21K0405-02 A

Preparation Batch: BJK0681

Sample Size: 20.3098 g (wet)

Prepared: 11/26/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.05	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Dec-2021 17:12

SO-TC-232C-112421
21K0405-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/24/2021 11:00

Instrument: ICP2 Analyst: MVP

Analyzed: 12/01/2021 13:56

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0405-03 A 02

Preparation Batch: BJK0724

Sample Size: 25 mL (wet)

Prepared: 11/30/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.166	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Dec-2021 17:12

SO-TC-232C-112421
21K0405-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/24/2021 11:00

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 11/26/2021 10:45

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21K0405-03 A

Preparation Batch: BJK0681

Sample Size: 20.5642 g (wet)

Prepared: 11/26/2021

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.99	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Dec-2021 17:12

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BJK0724 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJK0724-BLK1)						Prepared: 30-Nov-2021 Analyzed: 01-Dec-2021 13:34					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	0.0113	0.0065	0.100	mg/L							J
Duplicate (BJK0724-DUP1)						Source: 21K0405-01 Prepared: 30-Nov-2021 Analyzed: 01-Dec-2021 13:43					
Arsenic	ND	0.0140	0.250	mg/L		ND					U
Lead	0.345	0.0065	0.100	mg/L		0.322			6.78	20	
Matrix Spike (BJK0724-MS1)						Source: 21K0405-01 Prepared: 30-Nov-2021 Analyzed: 01-Dec-2021 13:49					
Arsenic	4.55	0.0140	0.250	mg/L	4.00	ND	114	75-125			
Lead	4.55	0.0065	0.100	mg/L	4.00	0.322	106	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Dec-2021 17:12

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BJK0681 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BJK0681-BS1)					Prepared: 26-Nov-2021		Analyzed: 26-Nov-2021 10:45			
pH	7.02	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BJK0681-DUP1)					Source: 21K0405-01		Prepared: 26-Nov-2021		Analyzed: 26-Nov-2021 10:45	
pH	9.17	0.01	0.01	pH Units	9.07			1.10	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Dec-2021 17:12

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Dec-2021 17:12

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

06 December 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21K0451

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by Shelly Fishel
Date: 2021.12.06 14:49:00 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 21K0451		Turn-around Requested: 3 DAY			Date: 11/30/2021		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)						
ARI Client Company: PERC		Phone: 4253480921			Page: of								
Client Contact: Kenny King					No. of Coolers: — Cooler Temps: 17.8								
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments	
Client Project #: SLON		Samplers: KING			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-233A-113021	11/30/21	15:00	SOIL	1	✓	✓							
SO-TC-233B-113021	11/30/21	15:10	SOIL	1	✓	✓							
SO-TC-233C-113021	11/30/21	15:20	SOIL	1	✓	✓							
Comments/Special Instructions		Relinquished by:			Received by:			Relinquished by:			Received by:		
		(Signature) <i>Kenny King</i>			(Signature) <i>Raven Barbera</i>			(Signature)			(Signature)		
		Printed Name: Kenny King			Printed Name: Raven Barbera			Printed Name:			Printed Name:		
		Company: PERC			Company: ARI			Company:			Company:		
		Date & Time: 11/30/2021 16:44			Date & Time: 11/30/21 1644			Date & Time:			Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-233A-113021	21K0451-01	Solid	30-Nov-2021 15:00	30-Nov-2021 16:44
SO-TC-233B-113021	21K0451-02	Solid	30-Nov-2021 15:10	30-Nov-2021 16:44
SO-TC-233C-113021	21K0451-03	Solid	30-Nov-2021 15:20	30-Nov-2021 16:44



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:44

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21K0451

Sample receipt

Samples as listed on the preceding page were received 30-Nov-2021 16:44 under ARI work order 21K0451. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 21K0451

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1644 17.8

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 2565

Cooler Accepted by: RP Date: 11/30/21 Time: 1644

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: AP Date: 11/30/21 Time: 1656 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: <u>21K0451</u>		
Cooler#:	Temperature(°C): <u>17.8</u>	
Sample ID	Bottle Count	Bottle Type
<i>Samples received above 6°C</i>		
Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type
Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type
Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type
Completed by: <u>AP for RB</u>	Date: <u>11/30/21</u>	Time: <u>1644</u>

00070F Cooler Temperature Compliance Form Version 001 10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:44

SO-TC-233A-113021
21K0451-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/30/2021 15:00

Instrument: ICP2 Analyst: MVP

Analyzed: 12/03/2021 16:13

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0451-01 A 02

Preparation Batch: BJL0068

Sample Size: 25 mL (wet)

Prepared: 12/02/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.104	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:44

SO-TC-233A-113021
21K0451-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/30/2021 15:00

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 12/01/2021 11:35

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21K0451-01 A

Preparation Batch: BJL0016

Sample Size: 20.2033 g (wet)

Prepared: 12/01/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.79	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:44

SO-TC-233B-113021
21K0451-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/30/2021 15:10

Instrument: ICP2 Analyst: MVP

Analyzed: 12/03/2021 16:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0451-02 A 02

Preparation Batch: B JL0068

Sample Size: 25 mL (wet)

Prepared: 12/02/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.119	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:44

SO-TC-233B-113021
21K0451-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/30/2021 15:10

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 12/01/2021 11:35

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21K0451-02 A

Preparation Batch: BJL0016

Sample Size: 20.2371 g (wet)

Prepared: 12/01/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.06	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:44

SO-TC-233C-113021
21K0451-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/30/2021 15:20

Instrument: ICP2 Analyst: MVP

Analyzed: 12/03/2021 16:23

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21K0451-03 A 02

Preparation Batch: BJL0068

Sample Size: 25 mL (wet)

Prepared: 12/02/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0667	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:44

SO-TC-233C-113021
21K0451-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/30/2021 15:20

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 12/01/2021 11:35

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21K0451-03 A

Preparation Batch: BJL0016

Sample Size: 20.2703 g (wet)

Prepared: 12/01/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.96	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:44

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BJL0068 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJL0068-BLK1)						Prepared: 02-Dec-2021 Analyzed: 03-Dec-2021 15:59					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BJL0068-DUP1)						Source: 21K0451-01 Prepared: 02-Dec-2021 Analyzed: 03-Dec-2021 16:10					
Arsenic	ND	0.0140	0.250	mg/L		ND					U
Lead	0.105	0.0065	0.100	mg/L		0.104			1.22	20	
Matrix Spike (BJL0068-MS1)						Source: 21K0451-01 Prepared: 02-Dec-2021 Analyzed: 03-Dec-2021 16:16					
Arsenic	4.31	0.0140	0.250	mg/L	4.00	ND	108	75-125			
Lead	4.24	0.0065	0.100	mg/L	4.00	0.104	103	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:44

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BJL0016 - EPA 9045D

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BJL0016-BS1)					Prepared: 01-Dec-2021 Analyzed: 01-Dec-2021 11:35					
pH	7.01	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BJL0016-DUP1)					Source: 21K0451-01 Prepared: 01-Dec-2021 Analyzed: 01-Dec-2021 11:35					
pH	8.76	0.01	0.01	pH Units	8.79			0.34	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:44

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:44

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
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ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

06 December 2021

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21L0018

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by
Shelly Fishel
Date: 2021.12.06
14:55:07 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 21L0018		Turn-around Requested: 3 DAY		Date: 12/1/2021		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)																																																																																																																																												
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Client Project Name: Superlon Plastics				<table border="1"> <thead> <tr> <th colspan="8">Analysis Requested</th> <th>Notes/Comments</th> </tr> <tr> <th>TCLP 1311 As/Pb Only</th> <th>pH 9045C</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>								Analysis Requested								Notes/Comments	TCLP 1311 As/Pb Only	pH 9045C								✓	✓								✓	✓								✓	✓																																																																																																	
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SO-TC-234A-120121	12/01/21	11:40	SOIL	1	✓	✓																																																																																																																																												
SO-TC-234B-120121	12/01/21	11:50	SOIL	1	✓	✓																																																																																																																																												
SO-TC-234C-120121	12/01/21	12:00	SOIL	1	✓	✓																																																																																																																																												
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i> Printed Name: Kenny King Company: PERC Date & Time: 12/1/2021 16:44		Received by: (Signature) <i>Raven Barbera</i> Printed Name: Raven Barbera Company: ARI Date & Time: 12/1/21 1644		Relinquished by: (Signature) _____ Printed Name: _____ Company: _____ Date & Time: _____		Received by: (Signature) _____ Printed Name: _____ Company: _____ Date & Time: _____																																																																																																																																										

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-234A-120121	21L0018-01	Solid	01-Dec-2021 11:40	01-Dec-2021 16:44
SO-TC-234B-120121	21L0018-02	Solid	01-Dec-2021 11:50	01-Dec-2021 16:44
SO-TC-234C-120121	21L0018-03	Solid	01-Dec-2021 12:00	01-Dec-2021 16:44



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:53

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 21L0018

Sample receipt

Samples as listed on the preceding page were received 01-Dec-2021 16:44 under ARI work order 21L0018. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 21L0018

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1644 20.0

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 2565

Cooler Accepted by: AP Date: 12/1/21 Time: 1644

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

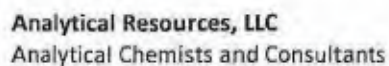
Samples Logged by: AP Date: 12/02/21 Time: 826 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by:

Date:

Time:

00070F

Cooler Temperature Compliance Form

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:53

SO-TC-234A-120121
21L0018-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 12/01/2021 11:40

Instrument: ICP2 Analyst: MVP

Analyzed: 12/03/2021 17:09

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21L0018-01 A 02

Preparation Batch: BJL0100

Sample Size: 25 mL (wet)

Prepared: 12/03/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.114	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:53

SO-TC-234A-120121
21L0018-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/01/2021 11:40

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 12/02/2021 11:50

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21L0018-01 A

Preparation Batch: BJL0058

Sample Size: 20.067 g (wet)

Prepared: 12/02/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.54	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:53

SO-TC-234B-120121
21L0018-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 12/01/2021 11:50

Instrument: ICP2 Analyst: MVP

Analyzed: 12/03/2021 17:17

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21L0018-02 A 02

Preparation Batch: BJL0100

Sample Size: 25 mL (wet)

Prepared: 12/03/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.105	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:53

SO-TC-234B-120121
21L0018-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/01/2021 11:50

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 12/02/2021 11:50

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BJL0058
Prepared: 12/02/2021

Sample Size: 20.1366 g (wet)
Final Volume: 20 mL

Extract ID: 21L0018-02 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.46	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:53

SO-TC-234C-120121
21L0018-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 12/01/2021 12:00

Instrument: ICP2 Analyst: MVP

Analyzed: 12/03/2021 17:19

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 21L0018-03 A 02

Preparation Batch: B JL0100

Sample Size: 25 mL (wet)

Prepared: 12/03/2021

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0681	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:53

SO-TC-234C-120121
21L0018-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 12/01/2021 12:00

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 12/02/2021 11:50

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 21L0018-03 A

Preparation Batch: BJL0058

Sample Size: 20.2964 g (wet)

Prepared: 12/02/2021

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.85	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:53

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BJL0100 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJL0100-BLK1)						Prepared: 03-Dec-2021 Analyzed: 03-Dec-2021 16:55					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BJL0100-DUP1)						Source: 21L0018-01 Prepared: 03-Dec-2021 Analyzed: 03-Dec-2021 17:06					
Arsenic	ND	0.0140	0.250	mg/L		ND					U
Lead	0.102	0.0065	0.100	mg/L		0.114			11.50	20	
Matrix Spike (BJL0100-MS1)						Source: 21L0018-01 Prepared: 03-Dec-2021 Analyzed: 03-Dec-2021 17:12					
Arsenic	4.05	0.0140	0.250	mg/L	4.00	ND	101	75-125			
Lead	4.01	0.0065	0.100	mg/L	4.00	0.114	97.4	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:53

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BJL0058 - EPA 9045D

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BJL0058-BS1)					Prepared: 02-Dec-2021 Analyzed: 02-Dec-2021 11:50					
pH	7.01	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BJL0058-DUP1)					Source: 21L0018-01 Prepared: 02-Dec-2021 Analyzed: 02-Dec-2021 11:50					
pH	8.55	0.01	0.01	pH Units	8.54			0.12	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:53

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



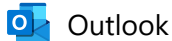
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Dec-2021 14:53

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: two data packages for your review and approval

From Keith Johnston <KJohnston@tpchd.org>
Date Tue 3/22/2022 12:34 PM
To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc kking perc-nw.com <kking@perc-nw.com>

Jeff,

I have reviewed these lab results and these soils are acceptable for disposal under WDA 2526R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management

Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>
Sent: Monday, March 21, 2022 8:09 AM
To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc: 'kking@perc-nw.com' <kking@perc-nw.com>
Subject: two data packages for your review and approval

CAUTION: External Email

Good morning Keith:

Attached are two data packages for your review and approval. These data is related with for soils originating at the Superlon Plastics site (WDA Permit number 2526R). Each sample represents approximately 23 CY of soil. Please let me know if you have any questions.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-235A-030822	ND	0.329	9.05	Asking for approval
SO-TC-235B-030822	0.0335	0.565	8.88	Asking for approval
SO-TC-235C-030822	0.0488	0.407	8.77	Asking for approval
SO-TC-236A-031422	ND	ND	8.9	Asking for approval
SO-TC-236B-031422	0.0497	0.356	8.75	Asking for approval

SO-TC-236C-031422	0.0591	0.531	8.78	Asking for approval
-------------------	--------	-------	------	---------------------

Note: WDA Permit number 2526R expires on April 11, 2022. We will need another annual permit by that time for another 25,000 tons.

Thanks
Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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Analytical Resources, LLC
Analytical Chemists and Consultants

14 March 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22C0132

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2022.03.14
16:54:29 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22C0132	Turn-around Requested: 3 DAY	Date: 3/8/22
ARI Client Company: PERC	Phone: 4253480921	Page: of
Client Contact: Kenny King		No. of Coolers: Cooler Temps: 16.2



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: KING			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-235A-030822	03/08/22	15:15	SOIL	1	✓	✓							
SO-TC-235B-030822	03/08/22	15:20	SOIL	1	✓	✓							
SO-TC-235C-030822	03/08/22	15:25	SOIL	1	✓	✓							
Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Vinitri Komvalze</i>		Relinquished by: (Signature)				Received by: (Signature)				
	Printed Name: Kenny King		Printed Name: Vinitri Komvalze		Printed Name:				Printed Name:				
	Company: PERC		Company: ARI		Company:				Company:				
	Date & Time: 3/8/22 16:45		Date & Time: 3/8/22 1645		Date & Time:				Date & Time:				

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Mar-2022 16:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-235A-030822	22C0132-01	Solid	08-Mar-2022 15:15	08-Mar-2022 16:45
SO-TC-235B-030822	22C0132-02	Solid	08-Mar-2022 15:20	08-Mar-2022 16:45
SO-TC-235C-030822	22C0132-03	Solid	08-Mar-2022 15:25	08-Mar-2022 16:45



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Mar-2022 16:41

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22C0132

Sample receipt

Samples as listed on the preceding page were received 08-Mar-2022 16:45 under ARI work order 22C0132. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 22C0132

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES YES NO

Were custody papers properly filled out (ink, signed, etc.) YES YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1645 16.2

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 2565

Cooler Accepted by: DC Date: 3/8/22 Time: 1645

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES YES NO

Were all bottle labels complete and legible? YES YES NO

Did the number of containers listed on COC match with the number of containers received? YES YES NO

Did all bottle labels and tags agree with custody papers? YES YES NO

Were all bottles used correct for the requested analyses? YES YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES YES NO

Date VOC Trip Blank was made at ARI NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

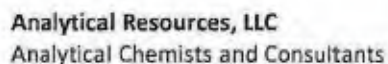
Samples Logged by: HY Date: 3/09/22 Time: 1035 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: 1/c Date: 3/8/22 Time: 1845

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Mar-2022 16:41

SO-TC-235A-030822
22C0132-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/08/2022 15:15

Instrument: ICP2 Analyst: MVP

Analyzed: 03/11/2022 17:26

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0132-01 A 01

Preparation Batch: BKC0245

Sample Size: 25 mL (wet)

Prepared: 03/10/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.329	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Mar-2022 16:41

SO-TC-235A-030822
22C0132-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/08/2022 15:15

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 03/11/2022 10:00

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22C0132-01 A

Preparation Batch: BKC0263

Sample Size: 20.814 g (wet)

Prepared: 03/11/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.05	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Mar-2022 16:41

SO-TC-235B-030822
22C0132-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/08/2022 15:20

Instrument: ICP2 Analyst: MVP

Analyzed: 03/11/2022 17:29

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0132-02 A 01

Preparation Batch: BKC0245

Sample Size: 25 mL (wet)

Prepared: 03/10/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0335	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.565	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Mar-2022 16:41

SO-TC-235B-030822
22C0132-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/08/2022 15:20

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 03/11/2022 10:00

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22C0132-02 A

Preparation Batch: BKC0263

Sample Size: 20.0384 g (wet)

Prepared: 03/11/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.88	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Mar-2022 16:41

SO-TC-235C-030822
22C0132-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/08/2022 15:25

Instrument: ICP2 Analyst: MVP

Analyzed: 03/11/2022 17:32

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0132-03 A 01

Preparation Batch: BKC0245

Sample Size: 25 mL (wet)

Prepared: 03/10/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0488	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.407	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Mar-2022 16:41

SO-TC-235C-030822
22C0132-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/08/2022 15:25

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 03/11/2022 10:00

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22C0132-03 A

Preparation Batch: BKC0263

Sample Size: 20.1342 g (wet)

Prepared: 03/11/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.77	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Mar-2022 16:41

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKC0245 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKC0245-BLK1)						Prepared: 10-Mar-2022 Analyzed: 11-Mar-2022 16:31					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	0.0135	0.0065	0.100	mg/L							J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Mar-2022 16:41

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKC0263 - EPA 9045D

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BKC0263-BS1)						Prepared: 11-Mar-2022 Analyzed: 11-Mar-2022 10:00				
pH	6.98	0.01	0.01	pH Units	7.00	99.7	99.2-100.8			
Duplicate (BKC0263-DUP1)						Source: 22C0132-01 Prepared: 11-Mar-2022 Analyzed: 11-Mar-2022 10:00				
pH	8.85	0.01	0.01	pH Units	9.05	2.23	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Mar-2022 16:41

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
14-Mar-2022 16:41

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

18 March 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22C0228

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2022.03.18
17:08:13 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22C0228 Turn-around Requested: **3 DAY**

ARI Client Company: **PERC** Phone: **4253480921**

Client Contact: **Kenny King**

Client Project Name: **Superlon Plastics**

Client Project #: **SLON** Samplers: **KING**

Date: **3/14/22**

Page: **of**

No. of Coolers: **18.6** Cooler Temps: **18.6**



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested								Notes/Comments	
					TCPLP 1311 As/Pb Only	pH 9045C								
SO-TC-236A-031422	03/14/22	14:10	SOIL	1	✓	✓								
SO-TC-236B-031422	03/14/22	14:20	SOIL	1	✓	✓								
SO-TC-236C-031422	03/14/22	14:30	SOIL	1	✓	✓								
Comments/Special Instructions	Relinquished by: (Signature) <u>Kenny King</u>				Received by: (Signature) <u>[Signature]</u>				Relinquished by: (Signature)				Received by: (Signature)	
	Printed Name: <u>Kenny King</u>				Printed Name: <u>[Name]</u>				Printed Name:				Printed Name:	
	Company: <u>PERC</u>				Company: <u>[Company]</u>				Company:				Company:	
	Date & Time: <u>3/14/2022 4:32</u>				Date & Time: <u>3/14/22 1632</u>				Date & Time:				Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Mar-2022 17:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-236A-031422	22C0228-01	Solid	14-Mar-2022 14:10	14-Mar-2022 16:32
SO-TC-236B-031422	22C0228-02	Solid	14-Mar-2022 14:20	14-Mar-2022 16:32
SO-TC-236C-031422	22C0228-03	Solid	14-Mar-2022 14:30	14-Mar-2022 16:32



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Mar-2022 17:05

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22C0228

Sample receipt

Samples as listed on the preceding page were received 14-Mar-2022 16:32 under ARI work order 22C0228. For details regarding sample receipt, please refer to the Cooler Receipt Form.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): NA
Assigned ARI Job No: 22C0228

Project Name: Superior Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA
Tracking No: NA

Preliminary Examination Phase:

Were in tact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES YES NO
Were custody papers properly filled out (ink, signed, etc.) YES YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1632 186
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID# 2565
Cooler Accepted by: DL Date: 3/14/22 Time: 1632

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

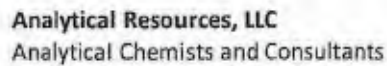
Samples Logged by: JS Date: 3/15/22 Time: 0904 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: PK Date: 3/14/22 Time: 1637

Cooler Temperature Compliance Form

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Mar-2022 17:05

SO-TC-236A-031422
22C0228-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/14/2022 14:10

Instrument: ICP2 Analyst: MVP

Analyzed: 03/17/2022 15:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0228-01 A 01

Preparation Batch: BKC0382

Sample Size: 25 mL (wet)

Prepared: 03/16/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Mar-2022 17:05

SO-TC-236A-031422
22C0228-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/14/2022 14:10

Instrument: Accumet AB150 Analyst: UW

Analyzed: 03/18/2022 13:00

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 22C0228-01 A 02

Preparation Batch: BKC0448

Sample Size: 20.03 g (wet)

Prepared: 03/18/2022

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.90	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Mar-2022 17:05

SO-TC-236B-031422
22C0228-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/14/2022 14:20

Instrument: ICP2 Analyst: MVP

Analyzed: 03/17/2022 15:53

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0228-02 A 01

Preparation Batch: BKC0382

Sample Size: 25 mL (wet)

Prepared: 03/16/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0497	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.356	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Mar-2022 17:05

SO-TC-236B-031422
22C0228-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/14/2022 14:20

Instrument: Accumet AB150 Analyst: UW

Analyzed: 03/18/2022 13:00

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 22C0228-02 A 02

Preparation Batch: BKC0448

Sample Size: 20.15 g (wet)

Prepared: 03/18/2022

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.75	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Mar-2022 17:05

SO-TC-236C-031422
22C0228-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/14/2022 14:30

Instrument: ICP2 Analyst: MVP

Analyzed: 03/17/2022 15:56

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0228-03 A 01

Preparation Batch: BKC0382

Sample Size: 25 mL (wet)

Prepared: 03/16/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0591	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.531	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Mar-2022 17:05

SO-TC-236C-031422
22C0228-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/14/2022 14:30

Instrument: Accumet AB150 Analyst: UW

Analyzed: 03/18/2022 13:00

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 22C0228-03 A 02

Preparation Batch: BKC0448

Sample Size: 20.08 g (wet)

Prepared: 03/18/2022

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.78	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Mar-2022 17:05

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKC0382 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKC0382-BLK1)						Prepared: 16-Mar-2022 Analyzed: 17-Mar-2022 14:53					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Mar-2022 17:05

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKC0448 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BKC0448-BS1)										
						Prepared: 18-Mar-2022 Analyzed: 18-Mar-2022 13:00				
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8			
Duplicate (BKC0448-DUP1)										
		Source: 22C0228-01				Prepared: 18-Mar-2022 Analyzed: 18-Mar-2022 13:00				
pH	8.87	0.01	0.01	pH Units	8.90	0.34	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Mar-2022 17:05

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



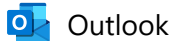
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
18-Mar-2022 17:05

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

**FW: Three data packages for your review and approval**

From JEFFREY KING <jking@percnw.com>
Date Wed 4/6/2022 9:16 AM
To kking perc-nw.com <kking@perc-nw.com>

From: Keith Johnston <KJohnston@tpchd.org>
Sent: Wednesday, April 6, 2022 8:41 AM
To: JEFFREY KING <jking@percnw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>
Subject: RE: Three data packages for your review and approval

Hi Jeff,

I have reviewed the data and these soils are acceptable for disposal under WDA 2526R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

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[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@percnw.com>
Sent: Monday, April 4, 2022 10:06 AM
To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>
Subject: Three data packages for your review and approval

CAUTION: External Email

Keith;

Good morning. Attached are three data packages for your review and approval. These data is related with for soils originating at the Superlon Plastics site (WDA Permit number 2526R). Each sample represents approximately 23 CY of soil. Please let me know if you have any questions.

SAMPLE ID	Arsenic Concentration	Lead Concentration	pH	Request
-----------	--------------------------	-----------------------	----	---------

	(TCLP) mg/L	(TCLP) mg/L		
SO-TC-237A-031622	0.0304	0.0248	9.38	Asking for approval
SO-TC-237B-031622	0.166	1.5	8.71	Asking for approval
SO-TC-237C-031622	0.269	2.03	8.56	Asking for approval
SO-TC-238A-032122	0.0688	0.0407	9.02	Asking for approval
SO-TC-238B-032122	0.091	0.111	8.91	Asking for approval
SO-TC-238C-032122	0.0632	0.0715	9	Asking for approval
SO-TC-239A-032222	0.072	0.136	8.61	Asking for approval
SO-TC-239B-032222	0.129	0.421	8.61	Asking for approval
SO-TC-239C-032222	0.0977	0.412	8.56	Asking for approval

BTW: I have not heard anything new about the availability of the 2022 annual permit. I paid for it online a couple of weeks ago. Our current permit WDA Permit number 2526R expires on April 11 and I do not want to make a mistake with the authorization. Have we just expanded this permit?

Thanks
Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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Analytical Resources, LLC
Analytical Chemists and Consultants

01 April 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22C0277

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2022.04.01
12:27:52 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22C0277	Turn-around Requested: 3 DAY
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ARI Client Company: PERC	Phone: 4253480921
------------------------------------	--------------------------

Client Contact: Kenny King

Client Project Name: Superlon Plastics

Client Project #: SLON	Samplers: KING
-------------------------------	-----------------------

Sample ID	Date	Time	Matrix	No. Containers
SO-TC-237A-031622	03/16/22	15:30	SOIL	1
SO-TC-237B-031622	03/16/22	15:40	SOIL	1
SO-TC-237C-031622	03/16/22	15:50	SOIL	1

Date: 3/16/22

Page: of

No. of Coolers:	Cooler Temps:
-----------------	---------------

Analysis Requested								Notes/Comments
TCLP 1311 As/Pb Only	pH 9045C							
✓	✓							
✓	✓							
✓	✓							

Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>	Received by: (Signature) <i>Isabelle Mealy</i>	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Kenny King	Printed Name: Isabelle Mealy	Printed Name:	Printed Name:
	Company: PERC	Company: ARI	Company:	Company:
	Date & Time: 3/16/2022 16:44	Date & Time: 3/16/22 16:44	Date & Time:	Date & Time:



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2022 12:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-237A-031622	22C0277-01	Solid	16-Mar-2022 15:30	16-Mar-2022 16:44
SO-TC-237B-031622	22C0277-02	Solid	16-Mar-2022 15:40	16-Mar-2022 16:44
SO-TC-237C-031622	22C0277-03	Solid	16-Mar-2022 15:50	16-Mar-2022 16:44



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2022 12:19

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22C0277

Sample receipt

Samples as listed on the preceding page were received 16-Mar-2022 16:44 under ARI work order 22C0277. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: EB 3/16/22 KENT PERC

COC No(s): _____ NA

Assigned ARI Job No: 22C0277

Project Name: SUPERION PLASTICS

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No: _____ NA

Preliminary Examination Phase:

Were in tact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES

NO

Were custody papers included with the cooler? _____

YES

NO

Were custody papers properly filled out (ink, signed, etc.)? _____

YES

NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 16:44

19.0

If cooler temperature is out of compliance fill out form 00070F

Cooler Accepted by: [Signature] Date: 3/16/22 Time: 16:44

Temp Gun ID#: J000708

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES

NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA

YES

NO

How were bottles sealed in plastic bags? _____

Individually

Grouped

Not

Did all bottles arrive in good condition (unbroken)? _____

YES

YES

NO

Were all bottle labels complete and legible? _____

YES

YES

NO

Did the number of containers listed on COC match with the number of containers received? _____

YES

YES

NO

Did all bottle labels and tags agree with custody papers? _____

YES

YES

NO

Were all bottles used correct for the requested analyses? _____

YES

YES

NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA

YES

YES

NO

Were all VOC vials free of air bubbles? _____

NA

YES

YES

NO

Was sufficient amount of sample sent in each bottle? _____

YES

YES

NO

Date VOC Trip Blank was made at ARI: _____

NA

Were the sample(s) split by ARI? _____

NA

YES

Date/Time: _____

Equipment: _____

Split by: _____

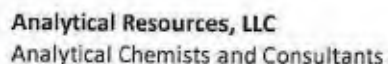
Samples Logged by: [Signature] Date: 03/17/2022 Time: 925 Labels checked by: SLF

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

00070F



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2022 12:19

SO-TC-237A-031622
22C0277-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/16/2022 15:30

Instrument: ICP2 Analyst: MVP

Analyzed: 03/30/2022 18:15

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0277-01 A 02

Preparation Batch: BKC0773

Sample Size: 25 mL (wet)

Prepared: 03/30/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0304	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0248	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2022 12:19

SO-TC-237A-031622
22C0277-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/16/2022 15:30

Instrument: Accumet AB150 Analyst: CKI

Analyzed: 03/24/2022 14:34

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 22C0277-01 A

Preparation Batch: BKC0611

Sample Size: 20.87 g (wet)

Prepared: 03/24/2022

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.38	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2022 12:19

SO-TC-237B-031622
22C0277-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/16/2022 15:40

Instrument: ICP2 Analyst: MVP

Analyzed: 03/30/2022 18:18

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0277-02 A 02

Preparation Batch: BKC0773

Sample Size: 25 mL (wet)

Prepared: 03/30/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.166	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	1.50	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2022 12:19

SO-TC-237B-031622
22C0277-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/16/2022 15:40

Instrument: Accumet AB150 Analyst: CKI

Analyzed: 03/24/2022 14:34

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 22C0277-02 A

Preparation Batch: BKC0611

Sample Size: 20.29 g (wet)

Prepared: 03/24/2022

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.71	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2022 12:19

SO-TC-237C-031622
22C0277-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/16/2022 15:50

Instrument: ICP2 Analyst: MVP

Analyzed: 03/30/2022 18:21

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0277-03 A 02

Preparation Batch: BKC0773

Sample Size: 25 mL (wet)

Prepared: 03/30/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.269	mg/L	
Lead	7439-92-1	5	0.0065	0.100	2.03	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2022 12:19

SO-TC-237C-031622
22C0277-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/16/2022 15:50

Instrument: Accumet AB150 Analyst: CKI

Analyzed: 03/24/2022 14:34

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 22C0277-03 A

Preparation Batch: BKC0611

Sample Size: 20.07 g (wet)

Prepared: 03/24/2022

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.56	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2022 12:19

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKC0773 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKC0773-BLK1)						Prepared: 30-Mar-2022 Analyzed: 30-Mar-2022 18:12					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2022 12:19

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKC0611 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: CKI

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BKC0611-BS1)										
						Prepared: 24-Mar-2022 Analyzed: 24-Mar-2022 14:34				
pH	7.02	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BKC0611-DUP1)										
		Source: 22C0277-01				Prepared: 24-Mar-2022 Analyzed: 24-Mar-2022 14:34				
pH	9.31	0.01	0.01	pH Units	9.38			0.75	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2022 12:19

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Apr-2022 12:19

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

29 March 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22C0342

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2022.03.29
11:39:19 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22C0342		Turn-around Requested: 3 DAY		Date: 3/21/22		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC		Phone: 4253480921		Page: of							
Client Contact: Kenny King				No. of Coolers: Cooler Temps:							
Client Project Name: Superlon Plastics				Analysis Requested						Notes/Comments	
Client Project #: SLON		Samplers: KING		TCLP 1311 As/Pb Only		pH 9045C					
Sample ID	Date	Time	Matrix	No. Containers							
SO-TC-238A-032122	03/21/22	14:10	SOIL	1	✓	✓					
SO-TC-238B-032122	03/21/22	14:20	SOIL	1	✓	✓					
SO-TC-238C-032122	03/21/22	14:30	SOIL	1	✓	✓					
Comments/Special Instructions		Relinquished by:		Received by:		Relinquished by:		Received by:			
		(Signature) <i>Kenny King</i>		(Signature) <i>OB</i>		(Signature)		(Signature)			
		Printed Name: Kenny King		Printed Name: GENE HENSLY		Printed Name:		Printed Name:			
		Company: PERC		Company: ARF		Company:		Company:			
Date & Time: 3/21/2022 16:48		Date & Time: 3/21/22 16:48		Date & Time:		Date & Time:					

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-238A-032122	22C0342-01	Solid	21-Mar-2022 14:10	21-Mar-2022 16:48
SO-TC-238B-032122	22C0342-02	Solid	21-Mar-2022 14:20	21-Mar-2022 16:48
SO-TC-238C-032122	22C0342-03	Solid	21-Mar-2022 14:30	21-Mar-2022 16:48



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:36

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22C0342

Sample receipt

Samples as listed on the preceding page were received 21-Mar-2022 16:48 under ARI work order 22C0342. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

COC No(s): _____ NA

Assigned ARI Job No: 22C0342

Project Name: Super Ion Plastics

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 16:48

18:0

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: JAX9708

Cooler Accepted by: LB

Date: 3/21/22

Time: 16:48

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES NO

How were bottles sealed in plastic bags? _____

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI: _____

NA

Were the sample(s) split by ARI? _____

NA YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: Andrey

Date: 03/21/2022

Time: 1806

Labels checked by: SLP

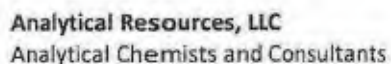
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

Completed by: [Signature] Date: 5/2/20 Time: 10:40
00070F Cooler Temperature Compliance Form Ver



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:36

SO-TC-238A-032122
22C0342-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/21/2022 14:10

Instrument: ICP2 Analyst: MVP

Analyzed: 03/24/2022 18:02

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0342-01 A 02

Preparation Batch: BKC0597

Sample Size: 25 mL (wet)

Prepared: 03/24/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0688	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0407	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:36

SO-TC-238A-032122
22C0342-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/21/2022 14:10

Instrument: Accumet AB150 Analyst: CKI

Analyzed: 03/24/2022 14:34

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 22C0342-01 A

Preparation Batch: BKC0611

Sample Size: 20.68 g (wet)

Prepared: 03/24/2022

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.02	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:36

SO-TC-238B-032122
22C0342-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/21/2022 14:20

Instrument: ICP2 Analyst: MVP

Analyzed: 03/24/2022 18:05

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0342-02 A 02

Preparation Batch: BKC0597

Sample Size: 25 mL (wet)

Prepared: 03/24/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0910	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.111	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:36

SO-TC-238B-032122
22C0342-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/21/2022 14:20

Instrument: Accumet AB150 Analyst: CKI

Analyzed: 03/24/2022 14:34

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 22C0342-02 A

Preparation Batch: BKC0611

Sample Size: 20.3 g (wet)

Prepared: 03/24/2022

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.91	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:36

SO-TC-238C-032122
22C0342-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/21/2022 14:30

Instrument: ICP2 Analyst: MVP

Analyzed: 03/24/2022 18:07

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0342-03 A 02

Preparation Batch: BKC0597

Sample Size: 25 mL (wet)

Prepared: 03/24/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0632	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0715	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:36

SO-TC-238C-032122
22C0342-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/21/2022 14:30

Instrument: Accumet AB150 Analyst: CKI

Analyzed: 03/24/2022 14:34

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 22C0342-03 A

Preparation Batch: BKC0611

Sample Size: 20.77 g (wet)

Prepared: 03/24/2022

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.00	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:36

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKC0597 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKC0597-BLK1)						Prepared: 24-Mar-2022 Analyzed: 24-Mar-2022 17:56				
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:36

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKC0611 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: CKI

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BKC0611-BS1)									
Prepared: 24-Mar-2022 Analyzed: 24-Mar-2022 14:34									
pH	7.02	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:36

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:36

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

29 March 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22C0379

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2022.03.29
11:47:29 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22C0379		Turn-around Requested: 3 DAY			Date: 3/22/22			 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC		Phone: 4253480921			Page: of								
Client Contact: Kenny King					No. of Coolers: Cooler Temps: 23.6								
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments	
Client Project #: SLON		Samplers: KING			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-239A-032222	03/22/22	13:10	SOIL	1	✓	✓							
SO-TC-239B-032222	03/22/22	13:20	SOIL	1	✓	✓							
SO-TC-239C-032222	03/22/22	13:30	SOIL	1	✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>D. L...</i>		Relinquished by: (Signature)		Received by: (Signature)		
					Printed Name: Kenny King		Printed Name: <i>Dimitri L...</i>		Printed Name:		Printed Name:		
					Company: PERC		Company: <i>AR</i>		Company:		Company:		
					Date & Time: 3/22/2022 16:46		Date & Time: 3/22/22 1646		Date & Time:		Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-239A-032222	22C0379-01	Solid	22-Mar-2022 13:10	22-Mar-2022 16:46
SO-TC-239B-032222	22C0379-02	Solid	22-Mar-2022 13:20	22-Mar-2022 16:46
SO-TC-239C-032222	22C0379-03	Solid	22-Mar-2022 13:30	22-Mar-2022 16:46



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:43

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22C0379

Sample receipt

Samples as listed on the preceding page were received 22-Mar-2022 16:46 under ARI work order 22C0379. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 2200379

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time: 1646

236

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 2565

Cooler Accepted by: DL

Date: 3/24/22

Time: 1646

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA NO

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: hllw Date: 03/23/22 Time: 11:39 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:43

SO-TC-239A-032222
22C0379-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/22/2022 13:10

Instrument: ICP2 Analyst: MVP

Analyzed: 03/25/2022 17:16

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0379-01 A 02

Preparation Batch: BKC0642

Sample Size: 25 mL (wet)

Prepared: 03/25/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0720	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.136	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:43

SO-TC-239A-032222
22C0379-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/22/2022 13:10

Instrument: Accumet AB150 Analyst: CKI

Analyzed: 03/24/2022 14:34

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 22C0379-01 A

Preparation Batch: BKC0611

Sample Size: 20.09 g (wet)

Prepared: 03/24/2022

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.61	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:43

SO-TC-239B-032222
22C0379-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/22/2022 13:20

Instrument: ICP2 Analyst: MVP

Analyzed: 03/25/2022 17:53

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0379-02 A 02

Preparation Batch: BKC0642

Sample Size: 25 mL (wet)

Prepared: 03/25/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.129	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.421	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:43

SO-TC-239B-032222
22C0379-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/22/2022 13:20

Instrument: Accumet AB150 Analyst: CKI

Analyzed: 03/24/2022 14:34

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 22C0379-02 A

Preparation Batch: BKC0611

Sample Size: 20.99 g (wet)

Prepared: 03/24/2022

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.61	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:43

SO-TC-239C-032222
22C0379-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/22/2022 13:30

Instrument: ICP2 Analyst: MVP

Analyzed: 03/25/2022 17:56

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0379-03 A 02

Preparation Batch: BKC0642

Sample Size: 25 mL (wet)

Prepared: 03/25/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0977	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.412	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:43

SO-TC-239C-032222
22C0379-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/22/2022 13:30

Instrument: Accumet AB150 Analyst: CKI

Analyzed: 03/24/2022 14:34

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 22C0379-03 A

Preparation Batch: BKC0611

Sample Size: 20.45 g (wet)

Prepared: 03/24/2022

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.56	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:43

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKC0642 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKC0642-BLK1)						Prepared: 25-Mar-2022 Analyzed: 25-Mar-2022 17:43					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	0.0078	0.0065	0.100	mg/L							J
Duplicate (BKC0642-DUP1)						Source: 22C0379-01 Prepared: 25-Mar-2022 Analyzed: 25-Mar-2022 17:46					
Arsenic	0.0604	0.0140	0.250	mg/L		0.0720			17.50	20	J
Lead	0.128	0.0065	0.100	mg/L		0.136			6.11	20	
Matrix Spike (BKC0642-MS1)						Source: 22C0379-01 Prepared: 25-Mar-2022 Analyzed: 25-Mar-2022 17:49					
Arsenic	4.58	0.0140	0.250	mg/L	4.00	0.0720	113	75-125			
Lead	4.33	0.0065	0.100	mg/L	4.00	0.136	105	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:43

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKC0611 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: CKI

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BKC0611-BS1)									
Prepared: 24-Mar-2022 Analyzed: 24-Mar-2022 14:34									
pH	7.02	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:43

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-Mar-2022 11:43

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

**RE: Three data packages for your review and approval.**

From EH SolidWaste <EHSolidWaste@tpchd.org>
Date Thu 4/14/2022 9:12 AM
To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc kking perc-nw.com <kking@perc-nw.com>

Hi Jeff,

I have reviewed the lab data and these soils are acceptable for disposal under WDA 2625R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management

Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>
Sent: Monday, April 11, 2022 10:25 AM
To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc: 'kking@perc-nw.com' <kking@perc-nw.com>
Subject: Three data packages for your review and approval.

CAUTION: External Email

Keith;

Good morning. Attached are three data packages for your review and approval. These data is related with for soils originating at the Superlon Plastics site (WDA Permit number 2625R). Each sample represents approximately 23 CY of soil. Please let me know if you have any questions.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-240A-032822	0.111	ND	8.75	Asking for approval
SO-TC-240B-032822	0.874	ND	8.81	Asking for approval
SO-TC-240C-032822	0.468	ND	8.9	Asking for approval
SO-TC-241A-033022	0.0152	0.0465	9.02	Asking for approval

SO-TC-241B-033022	ND	0.0505	8.96	Asking for approval
SO-TC-241C-033022	0.0704	0.1	8.91	Asking for approval
SO-TC-242A-040422	0.171	0.395	8.52	Asking for approval
SO-TC-242B-040422	0.0232	0.014	8.84	Asking for approval
SO-TC-242C-040422	0.0141	0.226	0.226	Asking for approval

Thank you

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

This communication is for use by the intended recipient and contains information that may be privileged, confidential or copyrighted under applicable law. If you are not the intended recipient, you are hereby formally notified that any use, copying or distribution of this e-mail, in whole or in part, is strictly prohibited. Please notify the sender by return e-mail and delete this e-mail from your system. This e-mail does not constitute a consent to the use of sender's contact information for direct marketing purposes or for transfers of data to third parties. Thank you.



Analytical Resources, LLC
Analytical Chemists and Consultants

04 April 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22C0481

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2022.04.04 14:37:59
-07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 220481		Turn-around Requested: 3 DAY			Date: 3/28/22				Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC		Phone: 4253480921			Page: of									
Client Contact: Kenny King					No. of Coolers: Cooler Temps: 21.6									
Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: OLIVA-MEMBreno			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-240A-032822	03/28/22	15:10	SOIL	1	✓	✓								
SO-TC-240B-032822	03/28/22	15:20	SOIL	1	✓	✓								
SO-TC-240C-032822	03/28/22	15:30	SOIL	1	✓	✓								
Comments/Special Instructions:					Relinquished by: (Signature) <i>[Signature]</i>		Received by: (Signature) <i>[Signature]</i>		Relinquished by: (Signature)		Received by: (Signature)			
					Printed Name: Jeff King		Printed Name: Rowan Miller		Printed Name:		Printed Name:			
					Company: PERC		Company: ARI		Company:		Company:			
					Date & Time: 3/28/22 4:38		Date & Time: 3/28/2022 4:38		Date & Time:		Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with...

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Apr-2022 14:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-240A-032822	22C0481-01	Solid	28-Mar-2022 15:10	28-Mar-2022 16:38
SO-TC-240B-032822	22C0481-02	Solid	28-Mar-2022 15:20	28-Mar-2022 16:38
SO-TC-240C-032822	22C0481-03	Solid	28-Mar-2022 15:30	28-Mar-2022 16:38



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Apr-2022 14:34

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22C0481

Sample receipt

Samples as listed on the preceding page were received 28-Mar-2022 16:38 under ARI work order 22C0481. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superior plastics

COC No(s): 22C0481 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 22C0481

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES YES NO

Were custody papers properly filled out (ink, signed, etc.) YES YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 21.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 2565

Cooler Accepted by: Rm Date: 03/28/22 Time: 4:38

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES YES NO

Were all bottle labels complete and legible? YES YES NO

Did the number of containers listed on COC match with the number of containers received? YES YES NO

Did all bottle labels and tags agree with custody papers? YES YES NO

Were all bottles used correct for the requested analyses? YES YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

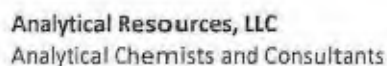
Samples Logged by: [Signature] Date: 3/29/22 Time: 9:06 Labels checked by:

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

Completed by: B m Date: 6/3/28/22 Time: 4:30

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Apr-2022 14:34

SO-TC-240A-032822
22C0481-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/28/2022 15:10

Instrument: ICP2 Analyst: MVP

Analyzed: 03/30/2022 18:26

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0481-01 A 02

Preparation Batch: BKC0773

Sample Size: 25 mL (wet)

Prepared: 03/30/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Lead	7439-92-1	5	0.0065	0.100	0.111	mg/L	
Silver	7440-22-4	5	0.0022	0.0150	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Apr-2022 14:34

SO-TC-240A-032822
22C0481-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/28/2022 15:10

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 04/01/2022 12:07

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22C0481-01 A

Preparation Batch: BKD0002

Sample Size: 20.0602 g (wet)

Prepared: 04/01/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.75	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Apr-2022 14:34

SO-TC-240B-032822
22C0481-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/28/2022 15:20

Instrument: ICP2 Analyst: MVP

Analyzed: 03/30/2022 18:29

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0481-02 A 02

Preparation Batch: BKC0773

Sample Size: 25 mL (wet)

Prepared: 03/30/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Lead	7439-92-1	5	0.0065	0.100	0.874	mg/L	
Silver	7440-22-4	5	0.0022	0.0150	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Apr-2022 14:34

SO-TC-240B-032822
22C0481-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/28/2022 15:20

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 04/01/2022 12:07

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22C0481-02 A

Preparation Batch: BKD0002

Sample Size: 20.2658 g (wet)

Prepared: 04/01/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.81	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Apr-2022 14:34

SO-TC-240C-032822
22C0481-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/28/2022 15:30

Instrument: ICP2 Analyst: MVP

Analyzed: 03/30/2022 18:53

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0481-03 A 02

Preparation Batch: BKC0773

Sample Size: 25 mL (wet)

Prepared: 03/30/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Lead	7439-92-1	5	0.0065	0.100	0.468	mg/L	
Silver	7440-22-4	5	0.0022	0.0150	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Apr-2022 14:34

SO-TC-240C-032822
22C0481-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/28/2022 15:30

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 04/01/2022 12:07

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22C0481-03 A

Preparation Batch: BKD0002

Sample Size: 20.0123 g (wet)

Prepared: 04/01/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.90	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Apr-2022 14:34

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKC0773 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKC0773-BLK1)						Prepared: 30-Mar-2022 Analyzed: 30-Mar-2022 18:12					
Lead	ND	0.0065	0.100	mg/L							U
Silver	ND	0.0022	0.0150	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Apr-2022 14:34

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKD0002 - EPA 9045D

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BKD0002-BS1)					Prepared: 01-Apr-2022 Analyzed: 01-Apr-2022 12:07					
pH	6.98	0.01	0.01	pH Units	7.00	99.7	99.2-100.8			
Duplicate (BKD0002-DUP1)					Source: 22C0481-01 Prepared: 01-Apr-2022 Analyzed: 01-Apr-2022 12:07					
pH	8.90	0.01	0.01	pH Units	8.75			1.70	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Apr-2022 14:34

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Silver	NELAP,WADOE,DoD-ELAP
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
04-Apr-2022 14:34

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

06 April 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22C0542

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2022.04.06
12:04:07 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2200542	Turn-around Requested: 3 DAY	Date: 3/30/22
ARI Client Company: PERC	Phone: 4253480921	Page: of
Client Contact: Kenny King		No. of Coolers: 212 Cooler Temps: 21.2



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: KING			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-241A-033022	03/30/22	11:10	SOIL	1	✓	✓							
SO-TC-241B-033022	03/30/22	11:20	SOIL	1	✓	✓							
SO-TC-241C-033022	03/30/22	11:30	SOIL	1	✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>[Signature]</i> Printed Name: JEFFREY KING Company: PERC Date & Time: 3/31/2022 1:43			Received by: (Signature) <i>[Signature]</i> Printed Name: Dimitri Lomnader Company: ARI Date & Time: 3/30/22 1345			Relinquished by: (Signature) _____ Printed Name: _____ Company: _____ Date & Time: _____		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Apr-2022 12:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-241A-033022	22C0542-01	Solid	30-Mar-2022 11:10	30-Mar-2022 13:45
SO-TC-241B-033022	22C0542-02	Solid	30-Mar-2022 11:20	30-Mar-2022 13:45
SO-TC-241C-033022	22C0542-03	Solid	30-Mar-2022 11:30	30-Mar-2022 13:45



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Apr-2022 12:00

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22C0542

Sample receipt

Samples as listed on the preceding page were received 30-Mar-2022 13:45 under ARI work order 22C0542. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): 22C0542 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 22C0542

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?

YES NO

Were custody papers included with the cooler?

YES NO

Were custody papers properly filled out (ink, signed, etc.)

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1345

21.2

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 2565

Cooler Accepted by: DC Date: 3/30/22 Time: 1345

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?

YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:

Was sufficient ice used (if appropriate)?

NA YES NO

How were bottles sealed in plastic bags?

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)?

YES NO

Were all bottle labels complete and legible?

YES NO

Did the number of containers listed on COC match with the number of containers received?

YES NO

Did all bottle labels and tags agree with custody papers?

YES NO

Were all bottles used correct for the requested analyses?

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA YES NO

Were all VOC vials free of air bubbles?

NA YES NO

Was sufficient amount of sample sent in each bottle?

YES NO

Date VOC Trip Blank was made at ARI

NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: ARLew Date: 03/31/22 Time: 15:00 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 22C0542

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
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cooler temp 21.2
about 6.8°C

3

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
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Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
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Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
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Completed by: _____ Date: _____ Time: _____

00070F

Cooler Temperature Compliance Form

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Apr-2022 12:00

SO-TC-241A-033022
22C0542-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/30/2022 11:10

Instrument: ICP2 Analyst: SKD

Analyzed: 04/04/2022 17:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0542-01 A 02

Preparation Batch: BKD0011

Sample Size: 25 mL (wet)

Prepared: 04/01/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0152	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0465	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Apr-2022 12:00

SO-TC-241A-033022
22C0542-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/30/2022 11:10

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 04/01/2022 12:07

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22C0542-01 A

Preparation Batch: BKD0002

Sample Size: 20.024 g (wet)

Prepared: 04/01/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.02	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Apr-2022 12:00

SO-TC-241B-033022
22C0542-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/30/2022 11:20

Instrument: ICP2 Analyst: SKD

Analyzed: 04/04/2022 18:22

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0542-02 A 02

Preparation Batch: BKD0011

Sample Size: 25 mL (wet)

Prepared: 04/01/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0505	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Apr-2022 12:00

SO-TC-241B-033022
22C0542-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/30/2022 11:20

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 04/01/2022 12:07

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22C0542-02 A

Preparation Batch: BKD0002

Sample Size: 20.0023 g (wet)

Prepared: 04/01/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.96	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Apr-2022 12:00

SO-TC-241C-033022
22C0542-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/30/2022 11:30

Instrument: ICP2 Analyst: SKD

Analyzed: 04/04/2022 18:25

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22C0542-03 A 02

Preparation Batch: BKD0011

Sample Size: 25 mL (wet)

Prepared: 04/01/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0704	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.100	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Apr-2022 12:00

SO-TC-241C-033022
22C0542-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/30/2022 11:30

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 04/01/2022 12:07

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22C0542-03 A

Preparation Batch: BKD0002

Sample Size: 20.1597 g (wet)

Prepared: 04/01/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.91	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Apr-2022 12:00

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKD0011 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKD0011-BLK1)						Prepared: 01-Apr-2022 Analyzed: 04-Apr-2022 17:14					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BKD0011-DUP1)						Source: 22C0542-01 Prepared: 01-Apr-2022 Analyzed: 04-Apr-2022 17:17					
Arsenic	0.0286	0.0140	0.250	mg/L		0.0152			61.00	20	L, J
Lead	0.0448	0.0065	0.100	mg/L		0.0465			3.65	20	J
Matrix Spike (BKD0011-MS1)						Source: 22C0542-01 Prepared: 01-Apr-2022 Analyzed: 04-Apr-2022 17:23					
Arsenic	4.76	0.0140	0.250	mg/L	4.00	0.0152	119	75-125			
Lead	4.60	0.0065	0.100	mg/L	4.00	0.0465	114	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Apr-2022 12:00

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKD0002 - EPA 9045D

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BKD0002-BS1)						Prepared: 01-Apr-2022 Analyzed: 01-Apr-2022 12:07			
pH	6.98	0.01	0.01	pH Units	7.00	99.7	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Apr-2022 12:00

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Apr-2022 12:00

Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



08 April 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22D0085

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
Date: 2022.04.08 15:47:32
-07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22D0085	Turn-around Requested: 3 DAY
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ARI Client Company: PERC	Phone: 4253480921
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Client Contact: Kenny King

Client Project Name: Superlon Plastics

Client Project #: SLON	Samplers: KING
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Sample ID	Date	Time	Matrix	No. Containers
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SO-TC-242A-040422	04/04/22	11:25	SOIL	1
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SO-TC-242B-040422	04/04/22	11:35	SOIL	1
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SO-TC-242C-040422	04/04/22	11:45	SOIL	1
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Date: 4/4/22

Page: of

No. of Coolers: 1	Cooler Temps: 26.3
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Analysis Requested							
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TCLP 1311 As/Pb Only	pH 9045C						
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Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Apr-2022 15:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-242A-040422	22D0085-01	Solid	04-Apr-2022 11:25	04-Apr-2022 16:39
SO-TC-242B-040422	22D0085-02	Solid	04-Apr-2022 11:35	04-Apr-2022 16:39
SO-TC-242C-040422	22D0085-03	Solid	04-Apr-2022 11:45	04-Apr-2022 16:39



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Apr-2022 15:31

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22D0085

Sample receipt

Samples as listed on the preceding page were received 04-Apr-2022 16:39 under ARI work order 22D0085. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior plastics

COC No(s): 22D0085 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 22D0085

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 16:39 267

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 2562

Cooler Accepted by: Rm Date: 4-4-22 Time: 16:39

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

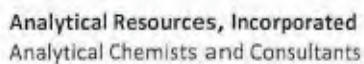
Samples Logged by: LB Date: 4/5/22 Time: 14:08 Labels checked by:

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

Completed by: Rn Date: 9-9-22 Time: 16:39

Cooler Temperature Compliance Form

Version 000
3/3/09



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Apr-2022 15:31

SO-TC-242A-040422
22D0085-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/04/2022 11:25

Instrument: ICP2 Analyst: SKD

Analyzed: 04/06/2022 18:17

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22D0085-01 A 02

Preparation Batch: BKD0142

Sample Size: 25 mL (wet)

Prepared: 04/06/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.171	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.395	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Apr-2022 15:31

SO-TC-242A-040422
22D0085-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/04/2022 11:25

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/07/2022 13:35

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 22D0085-01 A 02

Preparation Batch: BKD0193

Sample Size: 20.12 g (wet)

Prepared: 04/07/2022

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.52	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Apr-2022 15:31

SO-TC-242B-040422
22D0085-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/04/2022 11:35

Instrument: ICP2 Analyst: SKD

Analyzed: 04/06/2022 18:08

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22D0085-02 A 02

Preparation Batch: BKD0142

Sample Size: 25 mL (wet)

Prepared: 04/06/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0232	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0140	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Apr-2022 15:31

SO-TC-242B-040422
22D0085-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/04/2022 11:35

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/07/2022 13:35

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 22D0085-02 A 02

Preparation Batch: BKD0193

Sample Size: 20.13 g (wet)

Prepared: 04/07/2022

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.84	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Apr-2022 15:31

SO-TC-242C-040422
22D0085-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/04/2022 11:45

Instrument: ICP2 Analyst: SKD

Analyzed: 04/06/2022 18:11

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22D0085-03 A 02

Preparation Batch: BKD0142

Sample Size: 25 mL (wet)

Prepared: 04/06/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0141	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.226	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Apr-2022 15:31

SO-TC-242C-040422
22D0085-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/04/2022 11:45

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/07/2022 13:35

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 22D0085-03 A 02

Preparation Batch: BKD0193

Sample Size: 20.15 g (wet)

Prepared: 04/07/2022

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.25	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Apr-2022 15:31

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKD0142 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKD0142-BLK1)						Prepared: 06-Apr-2022 Analyzed: 06-Apr-2022 18:05					
Arsenic	0.0297	0.0140	0.250	mg/L							J
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BKD0142-DUP1)						Source: 22D0085-01 Prepared: 06-Apr-2022 Analyzed: 06-Apr-2022 18:14					
Arsenic	0.147	0.0140	0.250	mg/L		0.171			15.20	20	J
Lead	0.400	0.0065	0.100	mg/L		0.395			1.12	20	
Matrix Spike (BKD0142-MS1)						Source: 22D0085-01 Prepared: 06-Apr-2022 Analyzed: 06-Apr-2022 18:20					
Arsenic	4.64	0.0140	0.250	mg/L	4.00	0.171	112	75-125			
Lead	4.56	0.0065	0.100	mg/L	4.00	0.395	104	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Apr-2022 15:31

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKD0193 - No Prep Wet Chem

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BKD0193-BS1)						Prepared: 07-Apr-2022 Analyzed: 07-Apr-2022 13:35					
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8				



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Apr-2022 15:31

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



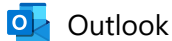
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Apr-2022 15:31

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

**RE: One more data package for your review and approval**

From EH SolidWaste <EHSolidWaste@tpchd.org>
Date Wed 4/20/2022 11:58 AM
To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc kking perc-nw.com <kking@perc-nw.com>

Hi Jeff,

I have reviewed the data and these soils are acceptable for disposal under WDA 2625R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management

Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>
Sent: Wednesday, April 20, 2022 9:11 AM
To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc: 'kking@perc-nw.com' <kking@perc-nw.com>
Subject: One more data package for your review and approval

CAUTION: External Email

Keith:

Attached is one more data package for your review and approval. The soils that the analysis represents are from the Superlon Plastics site (WDA Permit number 2625R). Each sample represents approximately 23 CY of soil. The following table lists the results.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-244A-040722	0.0593	0.875	8.39	Asking for approval
SO-TC-244B-040722	0.073	3.2	8.58	Asking for approval
SO-TC-244C-040722	0.0156	0.159	8.73	Asking for approval

Thanks
Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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Analytical Resources, LLC
Analytical Chemists and Consultants

20 April 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22D0194

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2022.04.20
08:55:30 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Client Project Name: Superlon Plastics		Analysis Requested			
Client Project #: SLON	Samplers: KING	1311 Only	045C		

Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>	Received by: (Signature) <i>Rm</i>	Relinquished by: (Signature)
	Printed Name: <i>Kenny King</i>	Printed Name: <i>Roman Miller</i>	Printed Name:
	Company: <i>PERC</i>	Company: <i>ART</i>	Company:
	Date & Time: <i>4/11/2022 16:41</i>	Date & Time: <i>4-11-22 16:41</i>	Date & Time:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

[illegible]

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2022 08:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-244A-040722	22D0194-01	Solid	07-Apr-2022 10:20	11-Apr-2022 16:41
SO-TC-244B-040722	22D0194-02	Solid	07-Apr-2022 10:25	11-Apr-2022 16:41
SO-TC-244C-040722	22D0194-03	Solid	07-Apr-2022 10:32	11-Apr-2022 16:41



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2022 08:53

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22D0194

Sample receipt

Samples as listed on the preceding page were received 11-Apr-2022 16:41 under ARI work order 22D0194. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): _____
Assigned ARI Job No: 22D0194

Project Name: Superlon Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES ☒ NO ☐
Were custody papers included with the cooler? YES ☒ NO ☐
Were custody papers properly filled out (ink, signed, etc.) YES ☒ NO ☐
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) _____
Time 16:41 20.9
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 2565
Cooler Accepted by: Rm Date: 4-11-22 Time: 16:41

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES ☐ NO ☒
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? YES ☒ NO ☐
How were bottles sealed in plastic bags? Individually ☐ Grouped ☒ Not ☐
Did all bottles arrive in good condition (unbroken)? YES ☒ NO ☐
Were all bottle labels complete and legible? YES ☒ NO ☐
Did the number of containers listed on COC match with the number of containers received? YES ☒ NO ☐
Did all bottle labels and tags agree with custody papers? YES ☒ NO ☐
Were all bottles used correct for the requested analyses? YES ☒ NO ☐
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA ☒ YES ☐ NO ☐
Were all VOC vials free of air bubbles? NA ☒ YES ☐ NO ☐
Was sufficient amount of sample sent in each bottle? YES ☒ NO ☐
Date VOC Trip Blank was made at ARI: NA ☒
Were the sample(s) split by ARI? NA ☒ YES ☐ Date/Time: _____ Equipment: _____ Split by: _____
Samples Logged by: ER Date: 4/11/22 Time: 16:59 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 22D0194

Cooler#: 1 Temperature(°C): 20.4

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Sample Received Here 6"Z		

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: Rm

Date: 4-16-22

Time: 10:41

00070F

Cooler Temperature Compliance Form

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2022 08:53

SO-TC-244A-040722
22D0194-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/07/2022 10:20

Instrument: ICP2 Analyst: SKD

Analyzed: 04/18/2022 17:31

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22D0194-01 A 02

Preparation Batch: BKD0399

Sample Size: 25 mL (wet)

Prepared: 04/14/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0593	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.875	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2022 08:53

SO-TC-244A-040722
22D0194-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/07/2022 10:20

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/14/2022 14:00

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22D0194-01 A 01

Preparation Batch: BKD0413

Sample Size: 20.13 g (wet)

Prepared: 04/14/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.39	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2022 08:53

SO-TC-244B-040722
22D0194-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/07/2022 10:25

Instrument: ICP2 Analyst: SKD

Analyzed: 04/18/2022 17:34

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22D0194-02 A 02

Preparation Batch: BKD0399

Sample Size: 25 mL (wet)

Prepared: 04/14/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0730	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	3.20	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2022 08:53

SO-TC-244B-040722
22D0194-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/07/2022 10:25

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/14/2022 14:00

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22D0194-02 A 01

Preparation Batch: BKD0413

Sample Size: 20.14 g (wet)

Prepared: 04/14/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.58	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2022 08:53

SO-TC-244C-040722
22D0194-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/07/2022 10:32

Instrument: ICP2 Analyst: SKD

Analyzed: 04/18/2022 17:37

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22D0194-03 A 02

Preparation Batch: BKD0399

Sample Size: 25 mL (wet)

Prepared: 04/14/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0156	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.159	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2022 08:53

SO-TC-244C-040722
22D0194-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/07/2022 10:32

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/14/2022 14:00

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22D0194-03 A 01

Preparation Batch: BKD0413

Sample Size: 20.07 g (wet)

Prepared: 04/14/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.73	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2022 08:53

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKD0399 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKD0399-BLK1)						Prepared: 14-Apr-2022 Analyzed: 18-Apr-2022 15:38				
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2022 08:53

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKD0413 - EPA 9045D

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BKD0413-BS1)						Prepared: 14-Apr-2022 Analyzed: 14-Apr-2022 14:00					
pH	6.97	0.01	0.01	pH Units	7.00		99.6	99.2-100.8			
Duplicate (BKD0413-DUP1)						Source: 22D0194-01 Prepared: 14-Apr-2022 Analyzed: 14-Apr-2022 14:00					
pH	8.52	0.01	0.01	pH Units		8.39			1.54	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2022 08:53

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



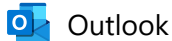
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Apr-2022 08:53

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

**RE: Two data packages for you review and approval**

From Trevor Priestley <TPriestley@tpchd.org>
on behalf of
EH SolidWaste <EHSolidWaste@tpchd.org>
Date Tue 5/17/2022 9:23 AM
To JEFFREY KING <jking@percnw.com>
Cc kking perc-nw.com <kking@perc-nw.com>; Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Hi Jeff,

I reviewed the data and these soils are acceptable for disposal under WDA 2625R.

Thank you,

Trevor Priestley, REHS/RS

Environmental Health Specialist

Environmental Health

(253) 649-1842 o • tpriestley@tpchd.org

(253) 377-5471 c • www.tpchd.org



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We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

From: JEFFREY KING <jking@percnw.com>
Sent: Monday, May 16, 2022 7:59 AM
To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc: 'kking@perc-nw.com' <kking@perc-nw.com>
Subject: Two data packages for you review and approval

CAUTION: External Email

Keith:

Attached are two data packages for your review and approval. The soils that the analysis represents are from the Superlon Plastics site (WDA Permit number 2625R). Each sample represents approximately 23 CY of soil. The following table lists the results.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-245A-041222	0.0789	0.232	9.3	Asking for approval
SO-TC-245B-041222	0.0164	0.0088	9.38	Asking for approval
SO-TC-245C-041222	ND	ND	9.19	Asking for approval
SO-TC-246A-041922	ND	0.109	8.71	Asking for approval

SO-TC-246B-041922	ND	0.0897	8.74	Asking for approval
SO-TC-246C-041922	ND	0.0331	8.76	Asking for approval

Thanks
Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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Analytical Resources, LLC
Analytical Chemists and Consultants

21 April 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22D0215

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by Shelly Fishel
Date: 2022.04.21 10:17:24 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22D0215		Turn-around Requested: 3 DAY		Date: 4/12/22		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 4253480921		Page: of					
Client Contact: Kenny King				No. of Coolers: 5					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: KING		TCLP 1311 As/Pb Only		pH 9045C			
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-245A-041222	04/12/22	14:10	SOIL	1	✓	✓			
SO-TC-245B-041222	04/12/22	14:20	SOIL	1	✓	✓			
SO-TC-245C-041222	04/12/22	14:30	SOIL	1	✓	✓			
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Isabelle Beers</i>		Relinquished by: (Signature)		Received by: (Signature)	
		Printed Name: Kenny King		Printed Name: Isabelle Beers		Printed Name:		Printed Name:	
		Company: PERC		Company: ART		Company:		Company:	
		Date & Time: 4/12/2022 16:37		Date & Time: 4/12/22 16:37		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2022 10:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-245A-041222	22D0215-01	Solid	12-Apr-2022 14:10	12-Apr-2022 16:37
SO-TC-245B-041222	22D0215-02	Solid	12-Apr-2022 14:20	12-Apr-2022 16:37
SO-TC-245C-041222	22D0215-03	Solid	12-Apr-2022 14:30	12-Apr-2022 16:37



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2022 10:15

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22D0215

Sample receipt

Samples as listed on the preceding page were received 12-Apr-2022 16:37 under ARI work order 22D0215. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: SUPERION PLASTICS

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 22D0215

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES

NO

Were custody papers included with the cooler? _____

YES

NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES

NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) _____

Time 1:38pm

18.2

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: JC09708

Cooler Accepted by: LB

Date: 4/12/22

Time: 10:37

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES

NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA

YES

NO

How were bottles sealed in plastic bags? _____

Individually

Grouped

Not

Did all bottles arrive in good condition (unbroken)? _____

YES

NO

Were all bottle labels complete and legible? _____

YES

NO

Did the number of containers listed on COC match with the number of containers received? _____

YES

NO

Did all bottle labels and tags agree with custody papers? _____

YES

NO

Were all bottles used correct for the requested analyses? _____

YES

NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA

YES

NO

Were all VOC vials free of air bubbles? _____

NA

YES

NO

Was sufficient amount of sample sent in each bottle? _____

NA

YES

NO

Date VOC Trip Blank was made at ARI: _____

Were the sample(s) split by ARI? _____

NA

YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: LB

Date: 4/12/22

Time: 10:57

Labels checked by: _____

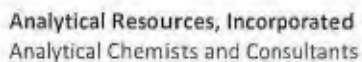
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

Completed by
00070F



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2022 10:15

SO-TC-245A-041222
22D0215-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/12/2022 14:10

Instrument: ICP2 Analyst: SKD

Analyzed: 04/19/2022 19:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22D0215-01 A 02

Preparation Batch: BKD0534

Sample Size: 25 mL (wet)

Prepared: 04/19/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0789	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.232	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2022 10:15

SO-TC-245A-041222
22D0215-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/12/2022 14:10

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/14/2022 14:00

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22D0215-01 A

Preparation Batch: BKD0413

Sample Size: 20.08 g (wet)

Prepared: 04/14/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.30	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2022 10:15

SO-TC-245B-041222
22D0215-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/12/2022 14:20

Instrument: ICP2 Analyst: SKD

Analyzed: 04/19/2022 19:57

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22D0215-02 A 02

Preparation Batch: BKD0534

Sample Size: 25 mL (wet)

Prepared: 04/19/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0164	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0088	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2022 10:15

SO-TC-245B-041222
22D0215-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/12/2022 14:20

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/14/2022 14:00

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22D0215-02 A

Preparation Batch: BKD0413

Sample Size: 20.01 g (wet)

Prepared: 04/14/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.38	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2022 10:15

SO-TC-245C-041222
22D0215-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/12/2022 14:30

Instrument: ICP2 Analyst: SKD

Analyzed: 04/19/2022 20:00

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22D0215-03 A 02

Preparation Batch: BKD0534

Sample Size: 25 mL (wet)

Prepared: 04/19/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2022 10:15

SO-TC-245C-041222
22D0215-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/12/2022 14:30

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/14/2022 14:00

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22D0215-03 A

Preparation Batch: BKD0413

Sample Size: 20.1 g (wet)

Prepared: 04/14/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.19	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2022 10:15

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKD0534 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKD0534-BLK1)						Prepared: 19-Apr-2022 Analyzed: 19-Apr-2022 17:36					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2022 10:15

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKD0413 - EPA 9045D

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BKD0413-BS1)									
Prepared: 14-Apr-2022 Analyzed: 14-Apr-2022 14:00									
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8		



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8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2022 10:15

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2022 10:15

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

26 April 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22D0301

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by Shelly Fishel
Date: 2022.04.26 19:43:15 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 220301		Turn-around Requested: 3 DAY			Date: 4/19/22		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)						
ARI Client Company: PERC		Phone: 4253480921			Page: 1 of 1								
Client Contact: Kenny King					No. of Coolers: 23.3								
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments	
Client Project #: SLON		Samplers: KING			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-246A-041922	04/19/22	10:20	SOIL	1	✓	✓							
SO-TC-246B-041922	04/19/22	10:30	SOIL	1	✓	✓							
SO-TC-246C-041922	04/19/22	10:40	SOIL	1	✓	✓							
Comments/Special Instructions		Relinquished by:			Received by:			Relinquished by:			Received by:		
		(Signature) <i>Kenny King</i>			(Signature) <i>[Signature]</i>			(Signature)			(Signature)		
		Printed Name: Kenny King			Printed Name: DUNNHO			Printed Name:			Printed Name:		
		Company: PERC			Company: ARI			Company:			Company:		
		Date & Time: 4/19/2022 16:32			Date & Time: 04/19/22 1632			Date & Time:			Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Apr-2022 19:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-246A-041922	22D0301-01	Solid	19-Apr-2022 10:20	19-Apr-2022 16:32
SO-TC-246B-041922	22D0301-02	Solid	19-Apr-2022 10:30	19-Apr-2022 16:32
SO-TC-246C-041922	22D0301-03	Solid	19-Apr-2022 10:40	19-Apr-2022 16:32



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Apr-2022 19:41

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22D0301

Sample receipt

Samples as listed on the preceding page were received 19-Apr-2022 16:32 under ARI work order 22D0301. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Pete

Project Name: Superior

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 22D0301

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1632

23.3

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 9708

Cooler Accepted by: [Signature]

Date: 04/19/22

Time: 1632

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES NO

How were bottles sealed in plastic bags? _____

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI: _____

NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: [Signature] Date: 04/19/22 Time: 1640 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Apr-2022 19:41

SO-TC-246A-041922
22D0301-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/19/2022 10:20

Instrument: ICP2 Analyst: MVP

Analyzed: 04/25/2022 14:39

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22D0301-01 A 02

Preparation Batch: BKD0612

Sample Size: 25 mL (wet)

Prepared: 04/21/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.109	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Apr-2022 19:41

SO-TC-246A-041922
22D0301-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/19/2022 10:20

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 04/22/2022 14:10

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22D0301-01 A

Preparation Batch: BKD0675

Sample Size: 20.1556 g (wet)

Prepared: 04/22/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.71	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Apr-2022 19:41

SO-TC-246B-041922
22D0301-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/19/2022 10:30

Instrument: ICP2 Analyst: MVP

Analyzed: 04/25/2022 14:42

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22D0301-02 A 02

Preparation Batch: BKD0612

Sample Size: 25 mL (wet)

Prepared: 04/21/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0897	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Apr-2022 19:41

SO-TC-246B-041922
22D0301-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/19/2022 10:30

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 04/22/2022 14:10

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22D0301-02 A

Preparation Batch: BKD0675

Sample Size: 20.0411 g (wet)

Prepared: 04/22/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.74	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Apr-2022 19:41

SO-TC-246C-041922
22D0301-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/19/2022 10:40

Instrument: ICP2 Analyst: MVP

Analyzed: 04/25/2022 15:06

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22D0301-03 A 02

Preparation Batch: BKD0612

Sample Size: 25 mL (wet)

Prepared: 04/21/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0331	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Apr-2022 19:41

SO-TC-246C-041922
22D0301-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/19/2022 10:40

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 04/22/2022 14:10

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22D0301-03 A

Preparation Batch: BKD0675

Sample Size: 20.1411 g (wet)

Prepared: 04/22/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.76	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Apr-2022 19:41

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKD0612 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: MVP

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKD0612-BLK1)						Prepared: 21-Apr-2022 Analyzed: 25-Apr-2022 14:14					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	0.0097	0.0065	0.100	mg/L							J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Apr-2022 19:41

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKD0675 - EPA 9045D

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BKD0675-BS1)					Prepared: 22-Apr-2022 Analyzed: 22-Apr-2022 14:10					
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8			
Duplicate (BKD0675-DUP1)					Source: 22D0301-01 Prepared: 22-Apr-2022 Analyzed: 22-Apr-2022 14:10					
pH	8.72	0.01	0.01	pH Units	8.71			0.12	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Apr-2022 19:41

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



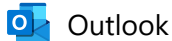
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
26-Apr-2022 19:41

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



FW: Two data packages for your review and approval

From JEFFREY KING <jking@perc-nw.com>
Date Wed 7/6/2022 9:29 AM
To kking perc-nw.com <kking@perc-nw.com>

From: EH SolidWaste <EHSolidWaste@tpchd.org>
Sent: Thursday, June 30, 2022 9:58 AM
To: JEFFREY KING <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>
Subject: RE: Two data packages for your review and approval

Hi Jeff,

I have reviewed this data and these soils are appropriate for disposal under WDA 2625R.

Thanks,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org
(253) 649-1840 o • www.tpchd.org



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We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>
Sent: Tuesday, June 28, 2022 3:19 PM
To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>
Subject: Two data packages for your review and approval

CAUTION: External Email

Keith:

Attached are two data packages for your review and approval. The soils that the analysis represents are from the Superlon Plastics site (WDA Permit number 2526R). Each sample represents approximately 23 CY of soil. The following table lists the results.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
-----------	---	--------------------------------------	----	---------

SO-TC-247A-060822	ND	0.042	9.41	Asking for approval
SO-TC-247B-060822	ND	ND	9.65	Asking for approval
SO-TC-247C-060822	ND	0.014	9.59	Asking for approval
SO-TC-248A-062022	0.0321	0.0452	9.62	Asking for approval
SO-TC-248B-062022	ND	0.019	9.71	Asking for approval
SO-TC-248C-062022	0.0394	0.651	9.55	Asking for approval

Please let me know if you have any questions.

Thanks
Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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Analytical Resources, LLC
Analytical Chemists and Consultants

16 June 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22F0143

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2022.06.16 08:07:39
-07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22F0143 Turn-around Requested: **3 DAY**

ARI Client Company: **PERC** Phone: **4253460921**

Client Contact: **Kenny King**

Client Project Name: **Superlon Plastics**

Client Project #: **SLON** Samplers: **KING**

Sample ID	Date	Time	Matrix	No. Containers
-----------	------	------	--------	----------------

SO-TC-247A-060822	06/08/22	13:45	SOIL	1
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SO-TC-247B-060822	06/08/22	13:55	SOIL	1
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SO-TC-247C-060822	06/08/22	14:05	SOIL	1
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Date: **6/8/22**

Page: **1** of **1**

No. of Coolers: **1** Cooler Temps: **26.8**

Analysis Requested

TCLP 1311 As/Pb Only

pH 9045C



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Comments/Special Instructions

Relinquished by:
(Signature) *Kenny King*

Printed Name:

Kenny King

Company:

PERC

Date & Time:

6/8/2022 16:29

Received by:
(Signature) *R ~*

Printed Name:

Rouven Miller

Company:

ARI

Date & Time:

6/8/22 1629

Relinquished by:
(Signature)

Printed Name:

Company:

Date & Time:

Received by:
(Signature)

Printed Name:

Company:

Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jun-2022 08:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-247A-060822	22F0143-01	Solid	08-Jun-2022 13:45	08-Jun-2022 16:29
SO-TC-247B-060822	22F0143-02	Solid	08-Jun-2022 13:55	08-Jun-2022 16:29
SO-TC-247C-060822	22F0143-03	Solid	08-Jun-2022 14:05	08-Jun-2022 16:29



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jun-2022 08:02

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22F0143

Sample receipt

Samples as listed on the preceding page were received 08-Jun-2022 16:29 under ARI work order 22F0143. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): NA
Assigned ARI Job No: 22F0143

Project Name: Superlon Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES YES NO
Were custody papers properly filled out (ink, signed, etc.) YES YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) _____
Time 1629 26.8
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 2565
Cooler Accepted by: R~ Date: 6/8/22 Time: 1629

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES YES NO
Were all bottle labels complete and legible? YES YES NO
Did the number of containers listed on COC match with the number of containers received? YES YES NO
Did all bottle labels and tags agree with custody papers? YES YES NO
Were all bottles used correct for the requested analyses? R~ YES YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES YES NO
Was sufficient amount of sample sent in each bottle? NA YES YES NO
Date VOC Trip Blank was made at ARI: _____
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

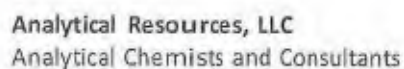
Samples Logged by: R~ Date: 6/8/22 Time: 1634 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



ARI Work Order: 22F0143

Cooler#: 1 Temperature(°C): 26.9

Sample ID	Bottle Count	Bottle Type
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sample received
above 6°C

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
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Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
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Completed by: R~ Date: 6/8/22 Time: 1625



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jun-2022 08:02

SO-TC-247A-060822
22F0143-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/08/2022 13:45

Instrument: ICP2 Analyst: SKD

Analyzed: 06/13/2022 22:18

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22F0143-01 A 02

Preparation Batch: BKF0294

Sample Size: 25 mL (wet)

Prepared: 06/13/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0420	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jun-2022 08:02

SO-TC-247A-060822
22F0143-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/08/2022 13:45

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 06/14/2022 13:03

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22F0143-01 A

Preparation Batch: BKF0321

Sample Size: 20.7627 g (wet)

Prepared: 06/14/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.41	pH Units	



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8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jun-2022 08:02

SO-TC-247B-060822
22F0143-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/08/2022 13:55

Instrument: ICP2 Analyst: SKD

Analyzed: 06/13/2022 21:33

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22F0143-02 A 02

Preparation Batch: BKF0294

Sample Size: 25 mL (wet)

Prepared: 06/13/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jun-2022 08:02

SO-TC-247B-060822
22F0143-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/08/2022 13:55

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 06/14/2022 13:03

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22F0143-02 A

Preparation Batch: BKF0321

Sample Size: 20.7327 g (wet)

Prepared: 06/14/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.65	pH Units	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jun-2022 08:02

SO-TC-247C-060822
22F0143-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/08/2022 14:05

Instrument: ICP2 Analyst: SKD

Analyzed: 06/13/2022 22:12

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22F0143-03 A 02

Preparation Batch: BKF0294

Sample Size: 25 mL (wet)

Prepared: 06/13/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0140	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jun-2022 08:02

SO-TC-247C-060822
22F0143-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/08/2022 14:05

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 06/14/2022 13:03

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22F0143-03 A

Preparation Batch: BKF0321

Sample Size: 20.2636 g (wet)

Prepared: 06/14/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.59	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jun-2022 08:02

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKF0294 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKF0294-BLK1)						Prepared: 13-Jun-2022 Analyzed: 13-Jun-2022 21:30					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BKF0294-DUP1)						Source: 22F0143-01 Prepared: 13-Jun-2022 Analyzed: 13-Jun-2022 22:15					
Arsenic	ND	0.0140	0.250	mg/L		ND					U
Lead	0.0442	0.0065	0.100	mg/L		0.0420			5.31	20	J
Matrix Spike (BKF0294-MS1)						Source: 22F0143-01 Prepared: 13-Jun-2022 Analyzed: 13-Jun-2022 22:21					
Arsenic	4.27	0.0140	0.250	mg/L	4.00	ND	107	75-125			
Lead	4.12	0.0065	0.100	mg/L	4.00	0.0420	102	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jun-2022 08:02

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKF0321 - EPA 9045D

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BKF0321-BS1)									
Prepared: 14-Jun-2022 Analyzed: 14-Jun-2022 13:03									
pH	6.98	0.01	0.01	pH Units	7.00	99.7	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jun-2022 08:02

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Jun-2022 08:02

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

28 June 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22F0337

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2022.06.28
14:58:07 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22F0337	Turn-around Requested: 3 DAY	Date: 6/20/22
ARI Client Company: PERC	Phone: 4253460921	Page: of
Client Contact: Kenny King		No. of Coolers: Cooler Temps:



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments		
Client Project #: SLON		Samplers: KING			TCLP 1311 As/Pb Only	pH 9045C									
Sample ID	Date	Time	Matrix	No. Containers											
SO-TC-248A-062022	06/20/22	13:15	SOIL	1	✓	✓									
SO-TC-248B-062022	06/20/22	13:30	SOIL	1	✓	✓									
SO-TC-248C-062022	06/20/22	13:45	SOIL	1	✓	✓									
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Isabene Brasley</i>			Relinquished by: (Signature)			Received by: (Signature)	
					Printed Name: Kenny King			Printed Name: Isabene Brasley			Printed Name:			Printed Name:	
					Company: PERC			Company: ARI			Company:			Company:	
					Date & Time: 6/20/22 16:21			Date & Time: 6/20/22 16:21			Date & Time:			Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Jun-2022 14:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-248A-062022	22F0337-01	Solid	20-Jun-2022 13:15	20-Jun-2022 16:21
SO-TC-248B-062022	22F0337-02	Solid	20-Jun-2022 13:30	20-Jun-2022 16:21
SO-TC-248C-062022	22F0337-03	Solid	20-Jun-2022 13:45	20-Jun-2022 16:21



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Jun-2022 14:57

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22F0337

Sample receipt

Samples as listed on the preceding page were received 20-Jun-2022 16:21 under ARI work order 22F0337. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client:

PERC

COC No(s):

Assigned ARI Job No:

22F0337

Project Name:

SUPERIOR PLASTICS

Delivered by: Fed-Ex UPS Courier Hand Delivered Other:

Tracking No:

NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?

YES

NO

Were custody papers included with the cooler?

YES

NO

Were custody papers properly filled out (ink, signed, etc.)

YES

NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#:

D002565

Cooler Accepted by:

Date:

6/20/22

Time:

16:21

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?

YES

NO

What kind of packing material was used?

Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:

Was sufficient ice used (if appropriate)?

NA

YES

NO

How were bottles sealed in plastic bags?

Individually

Grouped

Not

Did all bottles arrive in good condition (unbroken)?

YES

NO

Were all bottle labels complete and legible?

YES

NO

Did the number of containers listed on COC match with the number of containers received?

YES

NO

Did all bottle labels and tags agree with custody papers?

YES

NO

Were all bottles used correct for the requested analyses?

YES

NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...

NA

YES

NO

Were all VOC vials free of air bubbles?

NA

YES

NO

Was sufficient amount of sample sent in each bottle?

YES

NO

Date VOC Trip Blank was made at ARI

NA

Were the sample(s) split by ARI?

NA

YES

Date/Time:

Equipment:

Split by:

Samples Logged by:

Date:

6/20/22

Time:

1723

Labels checked by:

** Notify Project Manager of discrepancies or concerns **

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 22F0337 24.9

Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type
<u>samples received above 6°C</u>		

Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type

Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type

Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type

Completed by: [Signature] Date: 6/28/22 Time: 16:21



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Jun-2022 14:57

SO-TC-248A-062022
22F0337-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/20/2022 13:15

Instrument: ICP2 Analyst: SKD

Analyzed: 06/23/2022 20:48

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22F0337-01 A 02

Preparation Batch: BKF0540

Sample Size: 25 mL (wet)

Prepared: 06/23/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0321	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0452	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Jun-2022 14:57

SO-TC-248A-062022
22F0337-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/20/2022 13:15

Instrument: Accumet AB150 Analyst: UW

Analyzed: 06/22/2022 11:15

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22F0337-01 A

Preparation Batch: BKF0508

Sample Size: 20.21 g (wet)

Prepared: 06/22/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.62	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Jun-2022 14:57

SO-TC-248B-062022
22F0337-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/20/2022 13:30

Instrument: ICP2 Analyst: SKD

Analyzed: 06/23/2022 20:51

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22F0337-02 A 02

Preparation Batch: BKF0540

Sample Size: 25 mL (wet)

Prepared: 06/23/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0190	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Jun-2022 14:57

SO-TC-248B-062022
22F0337-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/20/2022 13:30

Instrument: Accumet AB150 Analyst: UW

Analyzed: 06/22/2022 11:15

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22F0337-02 A

Preparation Batch: BKF0508

Sample Size: 20.08 g (wet)

Prepared: 06/22/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.71	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Jun-2022 14:57

SO-TC-248C-062022
22F0337-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/20/2022 13:45

Instrument: ICP2 Analyst: SKD

Analyzed: 06/23/2022 20:54

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22F0337-03 A 02

Preparation Batch: BKF0540

Sample Size: 25 mL (wet)

Prepared: 06/23/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0394	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.651	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Jun-2022 14:57

SO-TC-248C-062022
22F0337-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/20/2022 13:45

Instrument: Accumet AB150 Analyst: UW

Analyzed: 06/22/2022 11:15

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22F0337-03 A

Preparation Batch: BKF0508

Sample Size: 20.19 g (wet)

Prepared: 06/22/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.55	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Jun-2022 14:57

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKF0540 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKF0540-BLK1)						Prepared: 23-Jun-2022 Analyzed: 23-Jun-2022 20:29				
Arsenic	0.0156	0.0140	0.250	mg/L						J
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Jun-2022 14:57

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKF0508 - EPA 9045D

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BKF0508-BS1)						Prepared: 22-Jun-2022 Analyzed: 22-Jun-2022 11:15				
pH	6.98	0.01	0.01	pH Units	7.00	99.7	99.2-100.8			
Duplicate (BKF0508-DUP1)						Source: 22F0337-01 Prepared: 22-Jun-2022 Analyzed: 22-Jun-2022 11:15				
pH	9.58	0.01	0.01	pH Units	9.62	0.42	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Jun-2022 14:57

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Jun-2022 14:57

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



FW: One data package for your review and approval

From JEFFREY KING <jking@percnw.com>
Date Wed 7/6/2022 11:29 AM
To kking perc-nw.com <kking@perc-nw.com>

Here is the new one.

From: Keith Johnston <KJohnston@tpchd.org>
Sent: Wednesday, July 6, 2022 11:27 AM
To: JEFFREY KING <jking@percnw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>
Subject: RE: One data package for your review and approval

Hi Jeff,

I have reviewed this data and these soils are acceptable for disposal under WDA 2625R.

Your emails are referring to the last WDA number and might get confusing for someone covering for me.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management

Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@percnw.com>
Sent: Wednesday, July 6, 2022 10:21 AM
To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>
Subject: One data package for your review and approval

CAUTION: External Email

Keith:

Attached is one data package for your review and approval. The soils that the analysis represents are from the Superlon Plastics site (WDA Permit number 2526R). Each sample represents approximately 23 CY of soil. The following table lists the results.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-249A-062222	ND	0.241	8.73	Asking for approval
SO-TC-249B-062222	ND	0.389	8.71	Asking for approval
SO-TC-249C-062222	ND	0.0186	8.94	Asking for approval

Please let me know if you have any questions.

Thanks
Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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Analytical Resources, LLC
Analytical Chemists and Consultants

06 July 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22F0371

Associated SDG ID(s)
N/A

Susan

Dunniho

Digitally signed by
Susan Dunniho
Date: 2022.07.06
10:03:15 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Susan Dunniho For Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 22F0371		Turn-around Requested: 3 DAY		Date: 6/22/22		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)										
ARI Client Company: PERC		Phone: 4253460921		Page: of												
Client Contact: Kenny King				No. of Coolers: Cooler Temps:												
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments								
Client Project #: SLON		Samplers: KING		TCLP 1311 As/Pb Only pH 9045C												
Sample ID	Date	Time	Matrix							No. Containers						
SO-TC-249A-062222	06/22/22	14:55	SOIL							1	✓	✓				
SO-TC-249B-062222	06/22/22	15:05	SOIL							1	✓	✓				
SO-TC-249C-062222	06/22/22	15:15	SOIL							1	✓	✓				
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Orlo Ames</i>		Relinquished by: (Signature)		Received by: (Signature)						
				Printed Name: Kenny King		Printed Name: Orlo Ames		Printed Name:		Printed Name:						
				Company: PERC		Company: ARI		Company:		Company:						
				Date & Time: 6/22/22 16:21		Date & Time: 6/22/22 16:21		Date & Time:		Date & Time:						

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2022 09:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-249A-062222	22F0371-01	Solid	22-Jun-2022 14:55	22-Jun-2022 16:21
SO-TC-249B-062222	22F0371-02	Solid	22-Jun-2022 15:05	22-Jun-2022 16:21
SO-TC-249C-062222	22F0371-03	Solid	22-Jun-2022 15:15	22-Jun-2022 16:21



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2022 09:58

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22F0371

Sample receipt

Samples as listed on the preceding page were received 22-Jun-2022 16:21 under ARI work order 22F0371. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon Plastic

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 22F0371

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES ☒ NO ☒

Were custody papers included with the cooler? YES ☒ NO ☐

Were custody papers properly filled out (ink, signed, etc.) YES ☒ NO ☐

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 16:21

233 30

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 9805

Cooler Accepted by: Orlando Amos

Date: 6/22/22

Time: 16:21

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES ☐ NO ☒

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA ☐ YES ☒ NO ☒

How were bottles sealed in plastic bags? Individually ☐ Grouped ☒ Not ☒

Did all bottles arrive in good condition (unbroken)? YES ☒ NO ☐

Were all bottle labels complete and legible? YES ☒ NO ☐

Did the number of containers listed on COC match with the number of containers received? YES ☒ NO ☐

Did all bottle labels and tags agree with custody papers? YES ☒ NO ☐

Were all bottles used correct for the requested analyses? YES ☒ NO ☐

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA ☒ YES ☐ NO ☐

Were all VOC vials free of air bubbles? NA ☒ YES ☐ NO ☐

Was sufficient amount of sample sent in each bottle? YES ☒ NO ☐

Date VOC Trip Blank was made at ARI: NA ☒

Were the sample(s) split by ARI? NA ☒ YES ☐ Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: HU Date: 06/22/22 Time: 16:28 Labels checked by: _____

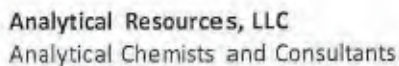
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

of 16



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2022 09:58

SO-TC-249A-062222
22F0371-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/22/2022 14:55

Instrument: ICP2 Analyst: SKD

Analyzed: 06/29/2022 22:38

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22F0371-01 A 02

Preparation Batch: BKF0668

Sample Size: 25 mL (wet)

Prepared: 06/29/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.241	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2022 09:58

SO-TC-249A-062222
22F0371-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/22/2022 14:55

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 06/28/2022 07:48

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22F0371-01 A

Preparation Batch: BKF0609

Sample Size: 20.3892 g (wet)

Prepared: 06/27/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.73	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2022 09:58

SO-TC-249B-062222
22F0371-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/22/2022 15:05

Instrument: ICP2 Analyst: SKD

Analyzed: 06/29/2022 22:44

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22F0371-02 A 02

Preparation Batch: BKF0668

Sample Size: 25 mL (wet)

Prepared: 06/29/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.389	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2022 09:58

SO-TC-249B-062222
22F0371-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/22/2022 15:05

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 06/28/2022 07:48

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22F0371-02 A

Preparation Batch: BKF0609

Sample Size: 20.1354 g (wet)

Prepared: 06/27/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.71	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2022 09:58

SO-TC-249C-062222
22F0371-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/22/2022 15:15

Instrument: ICP2 Analyst: SKD

Analyzed: 06/29/2022 22:49

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22F0371-03 A 02

Preparation Batch: BKF0668

Sample Size: 25 mL (wet)

Prepared: 06/29/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0186	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2022 09:58

SO-TC-249C-062222
22F0371-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/22/2022 15:15

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 06/28/2022 07:48

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22F0371-03 A

Preparation Batch: BKF0609

Sample Size: 20.6508 g (wet)

Prepared: 06/27/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.94	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2022 09:58

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKF0668 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKF0668-BLK1)					Prepared: 29-Jun-2022 Analyzed: 29-Jun-2022 22:14					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2022 09:58

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKF0609 - EPA 9045D

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BKF0609-BS1)										
						Prepared: 27-Jun-2022 Analyzed: 28-Jun-2022 07:48				
pH	7.01	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BKF0609-DUP1)										
		Source: 22F0371-01		Prepared: 27-Jun-2022 Analyzed: 28-Jun-2022 07:48						
pH	8.68	0.01	0.01	pH Units	8.73			0.57	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2022 09:58

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
06-Jul-2022 09:58

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Three data packages for your review and approval

From Keith Johnston <KJohnston@tpchd.org>

Date Mon 7/11/2022 1:58 PM

To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>

Hi Jeff,

I have reviewed this data and these soils are appropriate for disposal under WDA 2625R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management

Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>

Sent: Monday, July 11, 2022 10:16 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: Three data packages for your review and approval

CAUTION: External Email

Keith;

Good morning. Attached are three data packages for your review and approval. These data is related with for soils originating at the Superlon Plastics site (WDA Permit number 2625R). Each sample represents approximately 23 CY of soil. Please let me know if you have any questions.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-250A	ND	0.244	9.37	Asking for approval
SO-TC-250B	ND	0.228	9.34	Asking for approval
SO-TC-250C	ND	0.0699	9.38	Asking for approval
SO-TC-251A-062322	0.119	0.0694	8.31	Asking for approval

SO-TC-251B-062322	0.183	0.0865	8.02	Asking for approval
SO-TC-251C-062322	0.228	0.228	8.28	Asking for approval
SO-TC-252A-063022	ND	0.0454	9.56	Asking for approval
SO-TC-252B-063022	ND	0.0919	9.54	Asking for approval
SO-TC-252C-063022	ND	0.0468	9.53	Asking for approval

Thank you

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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Analytical Resources, LLC
Analytical Chemists and Consultants

11 July 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22F0442

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Susan Dunnihoo For Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22F0442		Turn-around Requested: 3 DAY			Date: 6/27/22		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 4253460921			Page: of									
Client Contact: Kenny King					No. of Coolers: 31-4									
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments		
Client Project #: SLON		Samplers: KING			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-250A-062722	06/27/22	12:45	SOIL	1	✓	✓								
SO-TC-250B-062722	06/27/22	12:55	SOIL	1	✓	✓								
SO-TC-250C-062722	06/27/22	13:05	SOIL	1	✓	✓								
Comments/Special Instructions		Relinquished by: (Signature) <i>[Signature]</i>			Received by: (Signature) <i>[Signature]</i>			Relinquished by: (Signature)			Received by: (Signature)			
		Printed Name: JEFF KING			Printed Name: Orlo Amos			Printed Name:			Printed Name:			
		Company: PERC			Company: ARI			Company:			Company:			
		Date & Time: 6/27/22 2:41P			Date & Time: 6/27/22 14:41			Date & Time:			Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Jul-2022 09:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-250A	22F0442-01	Solid	27-Jun-2022 12:45	27-Jun-2022 14:41
SO-TC-250B	22F0442-02	Solid	27-Jun-2022 12:55	27-Jun-2022 14:41
SO-TC-250C	22F0442-03	Solid	27-Jun-2022 13:05	27-Jun-2022 14:41



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Jul-2022 09:28

Work Order Case Narrative

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Pesc

Project Name: Superlon Plastic

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 22F0442

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 14:41

34

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 9768

Cooler Accepted by: Colo Amos

Date: 6/27/22

Time: 14:41

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES NO

How were bottles sealed in plastic bags? _____

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

NA YES NO

Date VOC Trip Blank was made at ARI: _____

NA

Were the sample(s) split by ARI? _____

NA YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: Colo Amos

Date: 06/27/2022

Time: 1455

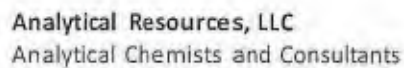
Labels checked by: SLF

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: _____ Date: _____ Time: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Jul-2022 09:28

SO-TC-250A
22F0442-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/27/2022 12:45

Instrument: ICP2 Analyst: SKD

Analyzed: 06/30/2022 20:37

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22F0442-01 A 02

Preparation Batch: BKF0704

Sample Size: 25 mL (wet)

Prepared: 06/30/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.244	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Jul-2022 09:28

SO-TC-250A
22F0442-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/27/2022 12:45

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 06/29/2022 09:50

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22F0442-01 A

Preparation Batch: BKF0666

Sample Size: 20.0309 g (wet)

Prepared: 06/29/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.37	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Jul-2022 09:28

SO-TC-250B
22F0442-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/27/2022 12:55

Instrument: ICP2 Analyst: SKD

Analyzed: 06/30/2022 20:43

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22F0442-02 A 02

Preparation Batch: BKF0704

Sample Size: 25 mL (wet)

Prepared: 06/30/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.228	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Jul-2022 09:28

SO-TC-250B
22F0442-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/27/2022 12:55

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 06/29/2022 09:50

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22F0442-02 A

Preparation Batch: BKF0666

Sample Size: 20.1283 g (wet)

Prepared: 06/29/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.34	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Jul-2022 09:28

SO-TC-250C
22F0442-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/27/2022 13:05

Instrument: ICP2 Analyst: SKD

Analyzed: 06/30/2022 20:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22F0442-03 A 02

Preparation Batch: BKF0704

Sample Size: 25 mL (wet)

Prepared: 06/30/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0699	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Jul-2022 09:28

SO-TC-250C
22F0442-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/27/2022 13:05

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 06/29/2022 09:50

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22F0442-03 A

Preparation Batch: BKF0666

Sample Size: 20.4815 g (wet)

Prepared: 06/29/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.38	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Jul-2022 09:28

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKF0704 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKF0704-BLK1)						Prepared: 30-Jun-2022 Analyzed: 30-Jun-2022 20:08				
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Jul-2022 09:28

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKF0666 - EPA 9045D

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BKF0666-BS1)										
					Prepared: 29-Jun-2022	Analyzed: 29-Jun-2022 09:50				
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BKF0666-DUP1)										
		Source: 22F0442-01			Prepared: 29-Jun-2022		Analyzed: 29-Jun-2022 09:50			
pH	9.42	0.01	0.01	pH Units		9.37		0.53	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Jul-2022 09:28

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Jul-2022 09:28

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

09 July 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22F0493

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Kelly Bottem For Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Cert# 100006-012

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22F0493		Turn-around Requested: 3 DAY		Date: 6/30/22		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)																																																																																																																																																																																																																																												
ARI Client Company: PERC		Phone: 4253460921		Page: 1 of 1																																																																																																																																																																																																																																														
Client Contact: Kenny King				No. of Coolers: 1 Cooler Temps: 27.9																																																																																																																																																																																																																																														
Client Project Name: Superlon Plastics				<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="8">Analysis Requested</th> <th colspan="2">Notes/Comments</th> </tr> <tr> <th>Sample ID</th> <th>Date</th> <th>Time</th> <th>Matrix</th> <th>No. Containers</th> <th>TCLP 1311 As/Pb Only</th> <th>pH 9045C</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>SO-TC-251A-062322</td> <td>06/23/22</td> <td>11:55</td> <td>SOIL</td> <td>1</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SO-TC-251B-062722</td> <td>06/27/22</td> <td>07:00</td> <td>SOIL</td> <td>1</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SO-TC-251C-062822</td> <td>06/28/22</td> <td>13:08</td> <td>SOIL</td> <td>1</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>								Analysis Requested								Notes/Comments		Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C							SO-TC-251A-062322	06/23/22	11:55	SOIL	1	✓	✓							SO-TC-251B-062722	06/27/22	07:00	SOIL	1	✓	✓							SO-TC-251C-062822	06/28/22	13:08	SOIL	1	✓	✓																																																																																																																																																																															
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Client Project #: SLON		Samplers: KING																																																																																																																																																																																																																																																

Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>	Received by: (Signature) <i>Ronan Miller</i>	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Kenny King	Printed Name: Ronan Miller	Printed Name:	Printed Name:
	Company: PERC	Company: ARI	Company:	Company:
	Date & Time: 6/30/2022 15:44	Date & Time: 6/30/22 1544	Date & Time:	Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-251A-062322	22F0493-01	Solid	23-Jun-2022 11:55	30-Jun-2022 15:44
SO-TC-251B-062722	22F0493-02	Solid	27-Jun-2022 07:00	30-Jun-2022 15:44
SO-TC-251C-062822	22F0493-03	Solid	28-Jun-2022 13:08	30-Jun-2022 15:44



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:20

Work Order Case Narrative

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superbug Plt/17.05

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 22F0493

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 1544

27.9

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 2565

Cooler Accepted by: R

Date: 6/30/22

Time: 1544

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: LB Date: 6/30/22 Time: 16:14 Labels checked by:

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

ARI Work Order:
22F0993

Cooler#:
Temperature(°C): 27.9°

Sample ID	Bottle Count	Bottle Type
Sample received above 6°C		

Cooler#:
Temperature(°C):

Sample ID	Bottle Count	Bottle Type

Cooler#:
Temperature(°C):

Sample ID	Bottle Count	Bottle Type

Cooler#:
Temperature(°C):

Sample ID	Bottle Count	Bottle Type

Completed by:
Date: 6/30/22
Time: 1549



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:20

SO-TC-251A-062322
22F0493-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/23/2022 11:55

Instrument: ICP2 Analyst: SKD

Analyzed: 07/07/2022 00:43

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22F0493-01 A 02

Preparation Batch: BKG0070

Sample Size: 25 mL (wet)

Prepared: 07/06/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.119	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0694	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:20

SO-TC-251A-062322
22F0493-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/23/2022 11:55

Instrument: Accumet AB150 Analyst: UW

Analyzed: 07/05/2022 15:45

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22F0493-01 A

Preparation Batch: BKG0061

Sample Size: 20.06 g (wet)

Prepared: 07/05/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.31	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:20

SO-TC-251B-062722
22F0493-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/27/2022 07:00

Instrument: ICP2 Analyst: SKD

Analyzed: 07/07/2022 00:02

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22F0493-02 A 02

Preparation Batch: BKG0070

Sample Size: 25 mL (wet)

Prepared: 07/06/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.183	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0865	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:20

SO-TC-251B-062722
22F0493-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/27/2022 07:00

Instrument: Accumet AB150 Analyst: UW

Analyzed: 07/05/2022 15:45

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22F0493-02 A

Preparation Batch: BKG0061

Sample Size: 20.03 g (wet)

Prepared: 07/05/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.02	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
09-Jul-2022 14:20

SO-TC-251C-062822
22F0493-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/28/2022 13:08

Instrument: ICP2 Analyst: SKD

Analyzed: 07/07/2022 00:07

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22F0493-03 A 02

Preparation Batch: BKG0070

Sample Size: 25 mL (wet)

Prepared: 07/06/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.228	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0658	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:20

SO-TC-251C-062822
22F0493-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/28/2022 13:08

Instrument: Accumet AB150 Analyst: UW

Analyzed: 07/05/2022 15:45

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22F0493-03 A

Preparation Batch: BKG0061

Sample Size: 20.02 g (wet)

Prepared: 07/05/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.28	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:20

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKG0070 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKG0070-BLK1)						Prepared: 06-Jul-2022 Analyzed: 06-Jul-2022 23:56					
Arsenic	0.0285	0.0140	0.250	mg/L							J
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BKG0070-DUP1)						Source: 22F0493-01 Prepared: 06-Jul-2022 Analyzed: 07-Jul-2022 00:37					
Arsenic	0.0744	0.0140	0.250	mg/L		0.119			46.40	20	L, J
Lead	0.0660	0.0065	0.100	mg/L		0.0694			5.08	20	J
Matrix Spike (BKG0070-MS1)						Source: 22F0493-01 Prepared: 06-Jul-2022 Analyzed: 07-Jul-2022 00:48					
Arsenic	4.47	0.0140	0.250	mg/L	4.00	0.119	109	75-125			
Lead	4.36	0.0065	0.100	mg/L	4.00	0.0694	107	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:20

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKG0061 - EPA 9045D

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BKG0061-BS1)						Prepared: 05-Jul-2022 Analyzed: 05-Jul-2022 15:45				
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8			
Duplicate (BKG0061-DUP1)						Source: 22F0493-01 Prepared: 05-Jul-2022 Analyzed: 05-Jul-2022 15:45				
pH	8.45	0.01	0.01	pH Units	8.31	1.67	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:20

Certified Analyses included in this Report

Analyte	Certifications		
<i>EPA 6010D in Solid</i>			
Arsenic	NELAP,WADOE		
Lead	NELAP,WADOE,DoD-ELAP		
<i>EPA 9045D in Solid</i>			
pH	WADOE,DoD-ELAP,NELAP		
Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:20

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

09 July 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22F0494

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Kelly Bottem For Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22 F0199		Turn-around Requested: 3 DAY		Date: 6/30/22		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC		Phone: 4253460921		Page: 1 of 1							
Client Contact: Kenny King				No. of Coolers: 1 Cooler Temps: 22.9							
Client Project Name: Superlon Plastics				Analysis Requested						Notes/Comments	
Client Project #: SLON		Samplers: KING		TCLP 1311 As/Pb Only		pH 9045C					
Sample ID	Date	Time	Matrix	No. Containers							
SO-TC-252A-063022	06/30/22	10:00	SOIL	1	✓	✓					
SO-TC-252B-063022	06/30/22	10:15	SOIL	1	✓	✓					
SO-TC-252C-063022	06/30/22	10:30	SOIL	1	✓	✓					
Comments/Special Instructions		Relinquished by:		Received by:		Relinquished by:		Received by:			
		(Signature) <i>Kenny King</i>		(Signature) <i>Roman Miller</i>		(Signature)		(Signature)			
		Printed Name: Kenny King		Printed Name: Roman Miller		Printed Name:		Printed Name:			
		Company: PERC		Company: ARI		Company:		Company:			
Date & Time: 6/30/2022 15:44		Date & Time: 6/30/22 1544		Date & Time:		Date & Time:					

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-252A-063022	22F0494-01	Solid	30-Jun-2022 10:00	30-Jun-2022 15:44
SO-TC-252B-063022	22F0494-02	Solid	30-Jun-2022 10:15	30-Jun-2022 15:44
SO-TC-252C-063022	22F0494-03	Solid	30-Jun-2022 10:30	30-Jun-2022 15:44



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:16

Work Order Case Narrative

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superbug Plut. cs

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 22F0499

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES ☐ NO ☒

Were custody papers included with the cooler? _____

YES ☒ NO ☐

Were custody papers properly filled out (ink, signed, etc.) _____

YES ☒ NO ☐

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1544 279

If cooler temperature is out of compliance fill out form D0070F

Temp Gun ID#: 2561

Cooler Accepted by: Rm Date: 6/30/22 Time: 1544

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____ YES ☐ NO ☒

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs ☒ Baggies Foam Block Paper Other _____

Was sufficient ice used (if appropriate)? _____ NA ☐ YES ☐ NO ☒

How were bottles sealed in plastic bags? _____ Individually ☐ Grouped ☒ NO ☐

Did all bottles arrive in good condition (unbroken)? _____ YES ☒ NO ☐

Were all bottle labels complete and legible? _____ YES ☒ NO ☐

Did the number of containers listed on COC match with the number of containers received? _____ YES ☒ NO ☐

Did all bottle labels and tags agree with custody papers? _____ YES ☒ NO ☐

Were all bottles used correct for the requested analyses? _____ YES ☒ NO ☐

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA ☒ YES ☐ NO ☐

Were all VOC vials free of air bubbles? _____ NA ☒ YES ☐ NO ☐

Was sufficient amount of sample sent in each bottle? _____ YES ☒ NO ☐

Date VOC Trip Blank was made at ARI: _____ NA ☒

Were the sample(s) split by ARI? ☒ YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: LB Date: 6/30/22 Time: 1629 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

00070F



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:16

SO-TC-252A-063022
22F0494-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/30/2022 10:00

Instrument: ICP2 Analyst: SKD

Analyzed: 07/07/2022 00:13

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22F0494-01 A 02

Preparation Batch: BKG0070

Sample Size: 25 mL (wet)

Prepared: 07/06/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0454	mg/L	J



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:16

SO-TC-252A-063022
22F0494-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/30/2022 10:00

Instrument: Accumet AB150 Analyst: UW

Analyzed: 07/05/2022 15:45

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22F0494-01 A

Preparation Batch: BKG0061

Sample Size: 20.09 g (wet)

Prepared: 07/05/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.56	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:16

SO-TC-252B-063022
22F0494-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/30/2022 10:15

Instrument: ICP2 Analyst: SKD

Analyzed: 07/07/2022 00:25

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22F0494-02 A 02

Preparation Batch: BKG0070

Sample Size: 25 mL (wet)

Prepared: 07/06/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0919	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:16

SO-TC-252B-063022
22F0494-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/30/2022 10:15

Instrument: Accumet AB150 Analyst: UW

Analyzed: 07/05/2022 15:45

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22F0494-02 A

Preparation Batch: BKG0061

Sample Size: 20.01 g (wet)

Prepared: 07/05/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.54	pH Units	



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Project Manager: Kenny King

Reported:
09-Jul-2022 14:16

SO-TC-252C-063022
22F0494-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/30/2022 10:30

Instrument: ICP2 Analyst: SKD

Analyzed: 07/07/2022 00:31

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22F0494-03 A 02

Preparation Batch: BKG0070

Sample Size: 25 mL (wet)

Prepared: 07/06/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0468	mg/L	J



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:16

SO-TC-252C-063022
22F0494-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/30/2022 10:30

Instrument: Accumet AB150 Analyst: UW

Analyzed: 07/05/2022 15:45

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22F0494-03 A

Preparation Batch: BKG0061

Sample Size: 20.08 g (wet)

Prepared: 07/05/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.53	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:16

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKG0070 - LEN Digestion of EPA 1311 Elutriate

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKG0070-BLK1)										
Prepared: 06-Jul-2022 Analyzed: 06-Jul-2022 23:56										
Arsenic	0.0285	0.0140	0.250	mg/L						J
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:16

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKG0061 - EPA 9045D

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BKG0061-BS1)									
Prepared: 05-Jul-2022 Analyzed: 05-Jul-2022 15:45									
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8		



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:16

Certified Analyses included in this Report

Analyte	Certifications		
EPA 6010D in Solid			
Arsenic	NELAP,WADOE		
Lead	NELAP,WADOE,DoD-ELAP		
EPA 9045D in Solid			
pH	WADOE,DoD-ELAP,NELAP		
Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Jul-2022 14:16

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

**RE: One data package for review and approval**

From Keith Johnston <KJohnston@tpchd.org>
Date Fri 9/2/2022 11:08 AM
To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc kking perc-nw.com <kking@perc-nw.com>

Jeff,

I have reviewed the sample results and these soils are acceptable for disposal under WDA 2625R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>
Sent: Tuesday, August 30, 2022 6:52 AM
To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc: 'kking@perc-nw.com' <kking@perc-nw.com>
Subject: One data package for review and approval

CAUTION: External Email

Keith:

Attached is one data package for your review and approval. The sample results represent sediment samples collected from the edge of the oil contaminated area we recently discovered and shows ND oil and gas detections. We will continue to get this analysis done until we are clearly outside the spill area. The sediment is from the Superlon Plastics site (WDA Permit number 2526R). Each sample represents approximately 23 CY of soil/sediment.

We have also had to temporarily had to change laboratories due to TATs. The new lab uses Method 6020B and 1311 rather than EPA 6010D. The detection level is not as low but does detect over 1 mg/l and meet the required 5 mg/l. I hope it is fine with you as well.

The following table presents the data;

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	NWTPH-HCID	NWTPH-Dx	pH	Request
SO-TC-261A-082422	<1	<1	ND	ND	9.3	Asking for approval
SO-TC-261B-082422	<1	<1	ND	ND	9	Asking for approval
SO-TC-261C-082422	<1	<1	ND	ND	8.8	Asking for approval

Thanks

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

August 29, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on August 24, 2022 from the Superlon Plastics, F&BI 208372 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: kking@perc-nw.com, jking@perc-nw.com
NAA0829R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 24, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 208372 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
208372 -01	SO-TC-261A-082422
208372 -02	SO-TC-261B-082422
208372 -03	SO-TC-261C-082422

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/29/22

Date Received: 08/24/22

Project: Superlon Plastics, F&BI 208372

Date Extracted: 08/25/22

Date Analyzed: 08/25/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SO-TC-261A-082422 208372-01	ND	ND	ND	97
SO-TC-261B-082422 208372-02	ND	ND	ND	95
SO-TC-261C-082422 208372-03	ND	ND	ND	94
Method Blank 02-2036 MB	ND	ND	ND	93

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/29/22

Date Received: 08/24/22

Project: Superlon Plastics, F&BI 208372

Date Extracted: 08/25/22

Date Analyzed: 08/25/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
SO-TC-261A-082422 208372-01	<50	<250	96
SO-TC-261B-082422 208372-02	<50	<250	98
SO-TC-261C-082422 208372-03	<50	<250	97
Method Blank 02-2038 MB	<50	<250	96

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/29/22

Date Received: 08/24/22

Project: Superlon Plastics, F&BI 208372

Date Extracted: 08/26/22

Date Analyzed: 08/26/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-261A-082422 208372-01	9.3
SO-TC-261B-082422 208372-02	9.0
SO-TC-261C-082422 208372-03	8.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-261A-082422	Client:	PERC
Date Received:	08/24/22	Project:	Superlon Plastics, F&BI 208372
Date Extracted:	08/24/22	Lab ID:	208372-01
Date Analyzed:	08/25/22	Data File:	208372-01.077
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-261B-082422	Client:	PERC
Date Received:	08/24/22	Project:	Superlon Plastics, F&BI 208372
Date Extracted:	08/24/22	Lab ID:	208372-02
Date Analyzed:	08/25/22	Data File:	208372-02.078
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-261C-082422	Client:	PERC
Date Received:	08/24/22	Project:	Superlon Plastics, F&BI 208372
Date Extracted:	08/24/22	Lab ID:	208372-03
Date Analyzed:	08/25/22	Data File:	208372-03.079
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 208372
Date Extracted:	08/24/22	Lab ID:	I2-582 mb
Date Analyzed:	08/25/22	Data File:	I2-582 mb.035
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/29/22

Date Received: 08/24/22

Project: Superlon Plastics, F&BI 208372

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 208369-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	5,800	3 b	24 b	73-135	156 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	110	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/29/22

Date Received: 08/24/22

Project: Superlon Plastics, F&BI 208372

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 208372-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.3	9.3	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/29/22

Date Received: 08/24/22

Project: Superlon Plastics, F&BI 208372

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 208321-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	90	92	75-125	2
Lead	mg/L (ppm)	1.0	31.3	184 b	257 b	75-125	33 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	86	80-120
Lead	mg/L (ppm)	1.0	82	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

ME 08-2 -22

Page # _____ of 125

Report To Kenny King
Company PERC - Pacific Environmental
Redevelopment Corporation
Address 8424 E Meadow Lake Dr
City, State, ZIP Snohomish, WA 98090
Phone (425) 346-0921 Email KKing@perc-tw.com

PROJECT NAME

PO #

Superlon Plastics

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

TURNAROUND TIME

Standard Turnaround
RUSH _____
Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days
Archive Samples
Other

[illegible]

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Kimberly Oliva Membreno	PERC	8/24/22	14:40
Received by: 	Liz Webber-Bryce	FBI	8/24/22	16:14 ^{Sup}
Relinquished by:				
Received by:				



RE: Request for approval: 5 data packages

From Keith Johnston <KJohnston@tpchd.org>
Date Tue 9/6/2022 12:16 PM
To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc kking perc-nw.com <kking@perc-nw.com>

Jeff,

For the soils that you are requesting disposal approval for, I have reviewed the data and these soils are acceptable for disposal under WDA 2625R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
 Environmental Health
 (253) 405-8604 c • kjohnston@tpchd.org
 (253) 649-1840 o • www.tpchd.org



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We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>
Sent: Tuesday, September 6, 2022 6:33 AM
To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc: 'kking@perc-nw.com' <kking@perc-nw.com>
Subject: Request for approval: 5 data packages
Importance: High

CAUTION: External Email

Keith:

Attached are 5 data packages for your review and approval. Each of the samples are from sediment/soil collected in the ditch adjacent to the Superlon Plastics site and represent approximately 23 CY of sediment/soil. To be clear we are NOT asking for approval for sample SO-TC-258B-082222. The sediment/soil that this sample represents (and the soil adjacent to it (2') in the stockpile) are being re-treated to lower leachability. The following table presents the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	NWTPH-HCID	NWTPH-Dx	pH	Request
SO-TC-257A-081822	<1	<1	ND	180	9.1	Asking for approval
SO-TC-257B-081822	<1	<1	ND	120	9.1	Asking for approval
SO-TC-257C-081822	<1	<1	ND	160	9.2	Asking for approval
SO-TC-258A-082222	1.27	2.63	ND	ND	8.8	Asking for approval
SO-TC-258B-082222	<1	5.51	ND	74	8.6	NOT ASKING FOR APPROVAL - SOIL WILL BE RE-TREATED
SO-TC-258C-082222	<1	<1	ND	74	8.8	Asking for approval
SO-TC-259A-082222	<1	<1	ND	ND	8.8	Asking for approval
SO-TC-259B-082222	<1	<1	ND	ND	8.8	Asking for approval
SO-TC-259C-082222	<1	<1	ND	86	8.9	Asking for approval
SO-TC-260A-082322	<1	<1	ND	82	8.8	Asking for approval
SO-TC-260B-082322	1.03	<1	ND	ND	8.8	Asking for approval
SO-TC-260C-082322	<1	1.06	ND	ND	9	Asking for approval
SLON-DEB1	<1	1.06	ND	ND	7	Asking for approval

Thank you

Jeff

Jeffrey D King, PG/LG
President/Geologist
Pacific Environmental & Redevelopment Corporation (PERC)
8424 E Meadow Lake Drive
Snohomish, WA 98290
425.238.2212
jking@perc-nw.com

This communication is for use by the intended recipient and contains information that may be privileged, confidential or copyrighted under applicable law. If you are not the intended recipient, you are hereby formally notified that any use, copying or distribution of this e-mail, in whole or in part, is strictly prohibited. Please notify the sender by return e-mail and delete this e-mail from your system. This e-mail does not constitute a consent to the use of sender's contact information for direct marketing purposes or for transfers of data to third parties. Thank you.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

September 2, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on August 31, 2022 from the Superlon Plastics, F&BI 208490 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
NAA0902R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 31, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 208490 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
208490 -01	SO-TC-257A-081822
208490 -02	SO-TC-257B-081822
208490 -03	SO-TC-257C-081822

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208490

Date Extracted: 08/31/22

Date Analyzed: 08/31/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SO-TC-257A-081822 208490-01	ND	D	D	95
SO-TC-257B-081822 208490-02	ND	ND	ND	102
SO-TC-257C-081822 208490-03	ND	D	D	92
Method Blank 02-2067 MB	ND	ND	ND	117

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208490

Date Extracted: 08/31/22

Date Analyzed: 09/01/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u> <u>(% Recovery)</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(Limit 56-165)
SO-TC-257A-081822 208490-01	180 x	<250	113
SO-TC-257B-081822 208490-02	120 x	<250	104
SO-TC-257C-081822 208490-03	160 x	<250	119
Method Blank 02-2064 MB	<50	<250	112

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208490

Date Extracted: 08/31/22

Date Analyzed: 09/01/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-257A-081822 208490-01	9.1
SO-TC-257B-081822 208490-02	9.1
SO-TC-257C-081822 208490-03	9.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-257A-081822	Client:	PERC
Date Received:	08/31/22	Project:	Superlon Plastics, F&BI 208490
Date Extracted:	08/31/22	Lab ID:	208490-01
Date Analyzed:	09/01/22	Data File:	208490-01.038
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-257B-081822	Client:	PERC
Date Received:	08/31/22	Project:	Superlon Plastics, F&BI 208490
Date Extracted:	08/31/22	Lab ID:	208490-02
Date Analyzed:	09/01/22	Data File:	208490-02.039
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-257C-081822	Client:	PERC
Date Received:	08/31/22	Project:	Superlon Plastics, F&BI 208490
Date Extracted:	08/31/22	Lab ID:	208490-03
Date Analyzed:	09/01/22	Data File:	208490-03.040
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 208490
Date Extracted:	08/31/22	Lab ID:	I2-602 mb
Date Analyzed:	09/01/22	Data File:	I2-602 mb.033
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208490

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 208465-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	108	94	63-146	14

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	108	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208490

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 208490-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.11	9.11	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208490

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 208492-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	86	87	75-125	1
Lead	mg/L (ppm)	1.0	<1	93	94	75-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	88	80-120
Lead	mg/L (ppm)	1.0	93	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208490
Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 208490
Turn-around Requested: 3 DAY JET DAY
ARI Client Company: PERC
Phone: 4253460921
Client Contact: Kenny King

Date: 8/18/2022
Page: 1 of 1
No. of Coolers: 0
Cooler Temps: 0



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4811 South 134th Place, Suite 100
Tukwila WA 98168
206-695-8200 206-695-8201 (fax)

Client Project Name: <u>Superlon Plastics</u>					Analysis Requested								Notes/Comments
Client Project #: <u>SLON</u>		Samplers: <u>KING</u>			TCLP 1311 As/Pb Only	pH 9045C	HCID	<u>X</u>					
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-257A-081822	08/18/22	10:00	SOIL	1	✓	✓	X	X					X-8
SO-TC-257B-081822	08/18/22	10:10	SOIL	1	✓	✓	X	X					8/31/22
SO-TC-257C-081822	08/18/22	10:20	SOIL	1	✓	✓	X	X					
Comments/Special Instructions					Relinquished by: <u>[Signature]</u> (Signature) Printed Name: <u>JEFF KING</u> Company: <u>PERC</u> Date & Time: <u>8/18/2022 15:54</u>		Received by: <u>[Signature]</u> (Signature) Printed Name: <u>Orlando Amos</u> Company: <u>ARF</u> Date & Time: <u>8/18/22 15:54</u>		Relinquished by: <u>[Signature]</u> (Signature) Printed Name: <u>Rouven Miller</u> Company: <u>ARF</u> Date & Time: <u>8/30/22 1906</u>		Received by: <u>W. Madden</u> (Signature) Printed Name: <u>W. Madden</u> Company: <u>F+BI</u> Date & Time: <u>8/31/22 12:20</u>		

Samples received at 2:00

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

September 2, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on August 31, 2022 from the Superlon Plastics, F&BI 208494 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
NAA0902R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 31, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 208494 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
208494 -01	SO-TC-258A-082222
208494 -02	SO-TC-258B-082222
208494 -03	SO-TC-258C-082222

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208494

Date Extracted: 08/31/22

Date Analyzed: 08/31/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SO-TC-258A-082222 208494-01	ND	ND	ND	105
SO-TC-258B-082222 208494-02	ND	D x	ND	94
SO-TC-258C-082222 208494-03	ND	D x	ND	106
Method Blank 02-2067 MB	ND	ND	ND	117

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208494

Date Extracted: 08/31/22

Date Analyzed: 09/01/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 56-165)
SO-TC-258A-082222	<50	<250	117
208494-01			
SO-TC-258B-082222	74 x	<250	119
208494-02			
SO-TC-258C-082222	74 x	<250	117
208494-03			
Method Blank	<50	<250	112
02-2064 MB			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208494

Date Extracted: 08/31/22

Date Analyzed: 09/01/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-258A-082222 208494-01	8.8
SO-TC-258B-082222 208494-02	8.6
SO-TC-258C-082222 208494-03	8.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-258A-082222	Client:	PERC
Date Received:	08/31/22	Project:	Superlon Plastics, F&BI 208494
Date Extracted:	08/31/22	Lab ID:	208494-01
Date Analyzed:	09/01/22	Data File:	208494-01.050
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	1.27	5.0
Lead	2.63	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-258B-082222	Client:	PERC
Date Received:	08/31/22	Project:	Superlon Plastics, F&BI 208494
Date Extracted:	08/31/22	Lab ID:	208494-02
Date Analyzed:	09/01/22	Data File:	208494-02.051
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	5.51	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-258C-082222	Client:	PERC
Date Received:	08/31/22	Project:	Superlon Plastics, F&BI 208494
Date Extracted:	08/31/22	Lab ID:	208494-03
Date Analyzed:	09/01/22	Data File:	208494-03.052
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 208494
Date Extracted:	08/31/22	Lab ID:	I2-602 mb
Date Analyzed:	09/01/22	Data File:	I2-602 mb.033
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208494

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 208465-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	108	94	63-146	14

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	108	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208494

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 208490-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.11	9.11	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208494

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 208492-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	86	87	75-125	1
Lead	mg/L (ppm)	1.0	<1	93	94	75-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	88	80-120
Lead	mg/L (ppm)	1.0	93	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208494

Chain of Custody Record & Laboratory Analysis Request

8/31/22

BT4

ARI Assigned Number: 2247-25-7		Term-around Requested 3 DAY DAY		Date 8/22/2022	
ARI Client Company PERC		Phone 4253460921		Page of	
Client Contact Kenny King		No. of Coolers		Cooler Temps:	
Client Project Name Superlon Plastics		Analysis Requested			
Client Project # SLON		Samplers KING		Notes/Comments	
Sample ID	Date	Time	Matrix	No. Containers	
SO-TC-258A-082222	08/22/22	10:10	SOIL	2	✓ ✓ ✓ ✓
SO-TC-258B-082222	08/22/22	10:20	SOIL	2	✓ ✓ ✓ ✓
SO-TC-258C-082222	08/22/22	10:30	SOIL	2	✓ ✓ ✓ ✓
Comments/Special Instructions		Relinquished by (Signature) <i>Kenny King</i>		Received by (Signature) <i>W. Madden</i>	
Printed Name Kenny King		Printed Name KARLE PEARSON		Printed Name W. Madden	
Company PERC		Company ARI		Company F+BI	
Date & Time 8/22/22 16:33		Date & Time 8/27/22 16:33		Date & Time 8/30/22 16:04	
				Date & Time 8/31/22 1220	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

September 2, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on August 31, 2022 from the Superlon Plastics, F&BI 208493 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
NAA0902R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 31, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 208493 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
208493 -01	SO-TC-259A-082222
208493 -02	SO-TC-259B-082222
208493 -03	SO-TC-259C-082222

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208493

Date Extracted: 08/31/22

Date Analyzed: 08/31/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SO-TC-259A-082222 208493-01	ND	ND	ND	96
SO-TC-259B-082222 208493-02	ND	ND	ND	95
SO-TC-259C-082222 208493-03	ND	D x	ND	94
Method Blank 02-2067 MB	ND	ND	ND	117

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208493

Date Extracted: 08/31/22

Date Analyzed: 09/01/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 56-165)
SO-TC-259A-082222	<50	<250	113
208493-01			
SO-TC-259B-082222	<50	<250	105
208493-02			
SO-TC-259C-082222	86 x	<250	109
208493-03			
Method Blank	<50	<250	112
02-2064 MB			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208493

Date Extracted: 08/31/22

Date Analyzed: 09/01/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-259A-082222 208493-01	8.8
SO-TC-259B-082222 208493-02	8.8
SO-TC-259C-082222 208493-03	8.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-259A-082222	Client:	PERC
Date Received:	08/31/22	Project:	Superlon Plastics, F&BI 208493
Date Extracted:	08/31/22	Lab ID:	208493-01
Date Analyzed:	09/01/22	Data File:	208493-01.047
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-259B-082222	Client:	PERC
Date Received:	08/31/22	Project:	Superlon Plastics, F&BI 208493
Date Extracted:	08/31/22	Lab ID:	208493-02
Date Analyzed:	09/01/22	Data File:	208493-02.048
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-259C-082222	Client:	PERC
Date Received:	08/31/22	Project:	Superlon Plastics, F&BI 208493
Date Extracted:	08/31/22	Lab ID:	208493-03
Date Analyzed:	09/01/22	Data File:	208493-03.049
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 208493
Date Extracted:	08/31/22	Lab ID:	I2-602 mb
Date Analyzed:	09/01/22	Data File:	I2-602 mb.033
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208493

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 208465-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	108	94	63-146	14

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	108	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208493

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 208490-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.11	9.11	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208493

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 208492-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	86	87	75-125	1
Lead	mg/L (ppm)	1.0	<1	93	94	75-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	88	80-120
Lead	mg/L (ppm)	1.0	93	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208993
Case # Custody Record & Laboratory Analysis Request

8/31/22

BI4

[illegible]

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy. Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

September 2, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on August 31, 2022 from the Superlon Plastics, F&BI 208495 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
NAA0902R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 31, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 208495 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
208495 -01	SO-TC-260A-082322
208495 -02	SO-TC-260B-082322
208495 -03	SO-TC-260C-082322

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208495

Date Extracted: 08/31/22

Date Analyzed: 08/31/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SO-TC-260A-082322 208495-01	ND	D x	ND	107
SO-TC-260B-082322 208495-02	ND	ND	ND	106
SO-TC-260C-082322 208495-03	ND	ND	ND	94
Method Blank 02-2067 MB	ND	ND	ND	117

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208495

Date Extracted: 08/31/22

Date Analyzed: 09/01/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 56-165)
SO-TC-260A-082322	82 x	<250	118
208495-01			
SO-TC-260B-082322	<50	<250	122
208495-02			
SO-TC-260C-082322	<50	<250	116
208495-03			
Method Blank	<50	<250	112
02-2064 MB			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208495

Date Extracted: 08/31/22

Date Analyzed: 09/01/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-260A-082322 208495-01	8.8
SO-TC-260B-082322 208495-02	8.8
SO-TC-260C-082322 208495-03	9.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-260A-082322	Client:	PERC
Date Received:	08/31/22	Project:	Superlon Plastics, F&BI 208495
Date Extracted:	08/31/22	Lab ID:	208495-01
Date Analyzed:	09/01/22	Data File:	208495-01.053
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-260B-082322	Client:	PERC
Date Received:	08/31/22	Project:	Superlon Plastics, F&BI 208495
Date Extracted:	08/31/22	Lab ID:	208495-02
Date Analyzed:	09/01/22	Data File:	208495-02.054
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	1.03	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-260C-082322	Client:	PERC
Date Received:	08/31/22	Project:	Superlon Plastics, F&BI 208495
Date Extracted:	08/31/22	Lab ID:	208495-03
Date Analyzed:	09/01/22	Data File:	208495-03.057
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	1.06	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 208495
Date Extracted:	08/31/22	Lab ID:	I2-602 mb
Date Analyzed:	09/01/22	Data File:	I2-602 mb.033
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208495

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 208465-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	108	94	63-146	14

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	108	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208495

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 208490-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.11	9.11	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208495

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 208492-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	86	87	75-125	1
Lead	mg/L (ppm)	1.0	<1	93	94	75-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	88	80-120
Lead	mg/L (ppm)	1.0	93	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

September 2, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King

Included are the results from the testing of material submitted on August 31, 2022 from the Superlon Plastics, F&BI 208492 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
NAA0902R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 31, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 208492 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
208492 -01

Pacific Environmental and Redevelopment Corporation
SLON-DEB1

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208492

Date Extracted: 08/31/22

Date Analyzed: 08/31/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SLON-DEB1 208492-01	ND	ND	ND	93
Method Blank 02-2067 MB	ND	ND	ND	117

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208492

Date Extracted: 08/31/21

Date Analyzed: 09/01/21

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	Surrogate
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 56-165)
SLON-DEB1	<50	<250	105
208492-01			
Method Blank	<50	<250	112
02-2064 MB			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208492

Date Extracted: 08/31/22

Date Analyzed: 09/01/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

Sample ID

Laboratory ID

pH

SLON-DEB1

208492-01

7.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SLON-DEB1	Client:	PERC
Date Received:	08/31/22	Project:	Superlon Plastics, F&BI 208492
Date Extracted:	08/31/22	Lab ID:	208492-01
Date Analyzed:	09/01/22	Data File:	208492-01.035
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 208492
Date Extracted:	08/31/22	Lab ID:	I2-602 mb
Date Analyzed:	09/01/22	Data File:	I2-602 mb.033
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208492

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 208465-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	108	94	63-146	14

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	108	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208492

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 208490-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.11	9.11	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/22

Date Received: 08/31/22

Project: Superlon Plastics, F&BI 208492

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 208492-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	86	87	75-125	1
Lead	mg/L (ppm)	1.0	<1	93	94	75-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	88	80-120
Lead	mg/L (ppm)	1.0	93	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

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J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208412
Chain of Custody Record & Laboratory Analysis Request

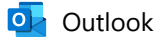
8/31/22

BTL

[illegible]

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI releases ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/sediment samples submitted to ARI will be discarded or returned no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



RE: Four data packages for your review and approval

From Keith Johnston <KJohnston@tpchd.org>
Date Mon 9/12/2022 3:36 PM
To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc kking perc-nw.com <kking@perc-nw.com>

Hi Jeff,

These soils are appropriate for disposal under WDA 2625R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
 Environmental Health
 (253) 405-8604 c • kjohnston@tpchd.org
 (253) 649-1840 o • www.tpchd.org



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We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>
Sent: Monday, September 12, 2022 12:36 PM
To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc: 'kking@perc-nw.com' <kking@perc-nw.com>
Subject: Four data packages for your review and approval

CAUTION: External Email

Keith:

Attached are four data packages for your review and approval under the permit for the Superlon Plastics site (WDA Permit number 2526R). Each of the samples are from sediment/soil collected in the ditch adjacent to the Superlon Plastics site and represent approximately 23 CY of sediment/soil.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	NWTPH-HCID	NWTPH-Dx (Diesel)	NWTPH-Dx (Motor Oil)	pH	Request
SO-TC-262A-090622	<1	<1	ND	<50	<250	9.6	Asking for Approval
SO-TC-262B-090622	<1	<1	ND	<50	<250	9.6	Asking for Approval
SO-TC-262C-090622	<1	<1	ND	<50	<250	9.4	Asking for Approval
SO-TC-263A-090622	<1	<1	ND	<50	<250	9.7	Asking for Approval
SO-TC-263B-090622	<1	<1	ND	<50	<250	9.6	Asking for Approval
SO-TC-263C-090622	<1	<1	ND	<50	<250	9.7	Asking for Approval
SO-TC-264A-090722	<1	<1	ND	<50	<250	9.6	Asking for Approval
SO-TC-264B-090722	<1	<1	ND	<50	<250	9.6	Asking for Approval
SO-TC-264C-090722	<1	<1	ND	<50	<250	9.8	Asking for Approval
SO-TC-265A-090722	<1	<1	ND	<50	<250	8.9	Asking for Approval
SO-TC-265B-090722	<1	<1	ND	<50	<250	9	Asking for Approval
SO-TC-265C-090722	<1	<1	ND	<50	<250	9.4	Asking for Approval

Thanks

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@percnw.com

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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

September 13, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on September 7, 2022 from the Superlon Plastics, F&BI 209068 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
PRC0913R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 7, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 209068 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
209068 -01	SO-TC-262A-090622
209068 -02	SO-TC-262B-090622
209068 -03	SO-TC-262C-090622

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/07/22

Project: Superlon Plastics, F&BI 209068

Date Extracted: 09/08/22

Date Analyzed: 09/08/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 56-165)
SO-TC-262A-090622 209068-01	ND	ND	ND	114
SO-TC-262B-090622 209068-02	ND	ND	ND	116
SO-TC-262C-090622 209068-03	ND	ND	ND	115
Method Blank 02-2133 MB	ND	ND	ND	115

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/07/22

Project: Superlon Plastics, F&BI 209068

Date Extracted: 09/08/22

Date Analyzed: 09/08/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
SO-TC-262A-090622 209068-01	<50	<250	119
SO-TC-262B-090622 209068-02	<50	<250	111
SO-TC-262C-090622 209068-03	<50	<250	110
Method Blank 02-2132 MB	<50	<250	107

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/07/22

Project: Superlon Plastics, F&BI 209068

Date Extracted: 09/08/22

Date Analyzed: 09/08/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-262A-090622 209068-01	9.6
SO-TC-262B-090622 209068-02	9.6
SO-TC-262C-090622 209068-03	9.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-262A-090622	Client:	PERC
Date Received:	09/07/22	Project:	Superlon Plastics, F&BI 209068
Date Extracted:	09/08/22	Lab ID:	209068-01
Date Analyzed:	09/09/22	Data File:	209068-01.099
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	WE

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-262B-090622	Client:	PERC
Date Received:	09/07/22	Project:	Superlon Plastics, F&BI 209068
Date Extracted:	09/08/22	Lab ID:	209068-02
Date Analyzed:	09/09/22	Data File:	209068-02.100
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	WE

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-262C-090622	Client:	PERC
Date Received:	09/07/22	Project:	Superlon Plastics, F&BI 209068
Date Extracted:	09/08/22	Lab ID:	209068-03
Date Analyzed:	09/09/22	Data File:	209068-03.101
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	WE

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 209068
Date Extracted:	09/08/22	Lab ID:	I2-626 mb
Date Analyzed:	09/09/22	Data File:	I2-626 mb.084
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	WE

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/07/22

Project: Superlon Plastics, F&BI 209068

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 209075-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	102	104	73-135	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	102	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/07/22

Project: Superlon Plastics, F&BI 209068

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 209068-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.6	9.7	1	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/07/22

Project: Superlon Plastics, F&BI 209068

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 209061-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	87	93	75-125	7
Lead	mg/L (ppm)	1.0	5.51	102	131 b	75-125	25 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	91	80-120
Lead	mg/L (ppm)	1.0	91	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

209068

SAMPLE CHAIN OF CUSTODY

01-01-22

DO2

Report To Kenny King
 Company PERC - Pacific Environmental Redevelopment Corporation
 Address 8424 E Meadow Lake Drive
 City, State, ZIP Spokane, WA 98290
 Phone (425) 346-0921 Email KKing@perc-nw.com

SAMPLERS (signature)

PROJECT NAME

PO #

Superlon Plastic

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

Page # of

TURNAROUND TIME

Standard Turnaround

RUSH OK 3 day TAT not 4/11/22Rush charges authorized by:
KK

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

						ANALYSES REQUESTED											
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TCLP 13H As/Pb Only	pH 9045C	NWTPH-HCID	NWTPH-Dx		Notes
SO-TC-262A-090622	01	9/6/22	9:40	SOIL	1							✓	✓	✓	✓		
SO-TC-262B-090622	02	9/6/22	9:50	SOIL	1							✓	✓	✓	✓		
SO-TC-262C-090622	03	9/6/22	10:00	SOIL	1							✓	✓	✓	✓		

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Kenny King</u>	<u>Kenny King</u>	<u>PERC</u>	<u>9/7/22</u>	<u>1:21</u>
Received by: <u>anh</u>	<u>ANH PHAN</u>	<u>F88</u>	<u>9/7/22</u>	<u>14:21</u>
Relinquished by:				
Received by:				
			Samples received at <u>28°C</u>	

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

September 13, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on September 7, 2022 from the Superlon Plastics, F&BI 209069 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
PRC0913R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 7, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 209069 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
209069 -01	SO-TC-263A-090622
209069 -02	SO-TC-263B-090622
209069 -03	SO-TC-263C-090622

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/07/22

Project: Superlon Plastics, F&BI 209069

Date Extracted: 09/08/22

Date Analyzed: 09/08/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 56-165)
SO-TC-263A-090622 209069-01	ND	ND	ND	117
SO-TC-263B-090622 209069-02	ND	ND	ND	105
SO-TC-263C-090622 209069-03	ND	ND	ND	117
Method Blank 02-2133 MB	ND	ND	ND	115

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/07/22

Project: Superlon Plastics, F&BI 209069

Date Extracted: 09/09/22

Date Analyzed: 09/09/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
SO-TC-263A-090622 209069-01	<50	<250	114
SO-TC-263B-090622 209069-02	<50	<250	117
SO-TC-263C-090622 209069-03	<50	<250	115
Method Blank 02-2136 MB	<50	<250	112

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/07/22

Project: Superlon Plastics, F&BI 209069

Date Extracted: 09/08/22

Date Analyzed: 09/08/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-263A-090622 209069-01	9.7
SO-TC-263B-090622 209069-02	9.6
SO-TC-263C-090622 209069-03	9.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-263A-090622	Client:	PERC
Date Received:	09/07/22	Project:	Superlon Plastics, F&BI 209069
Date Extracted:	09/08/22	Lab ID:	209069-01
Date Analyzed:	09/09/22	Data File:	209069-01.102
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	WE

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-263B-090622	Client:	PERC
Date Received:	09/07/22	Project:	Superlon Plastics, F&BI 209069
Date Extracted:	09/08/22	Lab ID:	209069-02
Date Analyzed:	09/09/22	Data File:	209069-02.103
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	WE

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-263C-090622	Client:	PERC
Date Received:	09/07/22	Project:	Superlon Plastics, F&BI 209069
Date Extracted:	09/08/22	Lab ID:	209069-03
Date Analyzed:	09/09/22	Data File:	209069-03.104
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	WE

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 209069
Date Extracted:	09/08/22	Lab ID:	I2-626 mb
Date Analyzed:	09/09/22	Data File:	I2-626 mb.084
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	WE

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/07/22

Project: Superlon Plastics, F&BI 209069

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 209068-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.6	9.7	1	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/07/22

Project: Superlon Plastics, F&BI 209069

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 209075-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	102	104	73-135	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	102	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/07/22

Project: Superlon Plastics, F&BI 209069

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 209061-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	87	93	75-125	7
Lead	mg/L (ppm)	1.0	5.51	102	131 b	75-125	25 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	91	80-120
Lead	mg/L (ppm)	1.0	91	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

209069

SAMPLE CHAIN OF CUSTODY

09-07-22

D02

Report To Kenny King
 Company PERC - Pacific Environmental Redevelopment Corporation
 Address 8424 E Meadow Lake Drive
 City, State, ZIP Shoreline, WA 98148
 Phone (206) 346-0921 Email KKing@perc-nw.co

SAMPLERS (signature)

PROJECT NAME

PO #

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

Page # of

TURNAROUND TIME

Standard Turnaround

X RUSH 3-Day TAT not applicable
 Rush charges authorized by: KK

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	As Pb Cd	pH 9045C	NWTPH-HCID	NWTPH-Dx	
SO-TC-263A-090622	01	9/6/22	15:25	SOIL	1							✓	✓	✓	✓	
SO-TC-263B-090622	02	9/6/22	15:35	SOIL	1							✓	✓	✓	✓	
SO-TC-263C-090622	03	9/6/22	15:45	SOIL	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE		PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	<u>Kenny King</u>	<u>Kenny King</u>	<u>PERC</u>	<u>9/7/22</u>	<u>1:21</u>
Received by:	<u>AK</u>	<u>AKA PHAN</u>	<u>FSB</u>	<u>1/7/22</u>	<u>14:21</u>
Relinquished by:					
Received by:					

Samples stored at 20°C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

September 13, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on September 7, 2022 from the Superlon Plastics, F&BI 209070 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
PRC0913R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 7, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 209070 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
209070 -01	SO-TC-264A-090722
209070 -02	SO-TC-264B-090722
209070 -03	SO-TC-264C-090722

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/07/22

Project: Superlon Plastics, F&BI 209070

Date Extracted: 09/08/22

Date Analyzed: 09/08/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 56-165)
SO-TC-264A-090722 209070-01	ND	ND	ND	118
SO-TC-264B-090722 209070-02	ND	ND	ND	118
SO-TC-264C-090722 209070-03	ND	ND	ND	116
Method Blank 02-2133 MB	ND	ND	ND	115

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/07/22

Project: Superlon Plastics, F&BI 209070

Date Extracted: 09/09/22

Date Analyzed: 09/09/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
SO-TC-264A-090722 209070-01	<50	<250	115
SO-TC-264B-090722 209070-02	<50	<250	115
SO-TC-264C-090722 209070-03	<50	<250	121
Method Blank 02-2136 MB	<50	<250	112

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/07/22

Project: Superlon Plastics, F&BI 209070

Date Extracted: 09/08/22

Date Analyzed: 09/08/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-264A-090722 209070-01	9.6
SO-TC-264B-090722 209070-02	9.6
SO-TC-264C-090722 209070-03	9.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-264A-090722	Client:	PERC
Date Received:	09/07/22	Project:	Superlon Plastics, F&BI 209070
Date Extracted:	09/08/22	Lab ID:	209070-01
Date Analyzed:	09/09/22	Data File:	209070-01.105
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	WE

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-264B-090722	Client:	PERC
Date Received:	09/07/22	Project:	Superlon Plastics, F&BI 209070
Date Extracted:	09/08/22	Lab ID:	209070-02
Date Analyzed:	09/09/22	Data File:	209070-02.106
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	WE

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-264C-090722	Client:	PERC
Date Received:	09/07/22	Project:	Superlon Plastics, F&BI 209070
Date Extracted:	09/08/22	Lab ID:	209070-03
Date Analyzed:	09/09/22	Data File:	209070-03.107
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	WE

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 209070
Date Extracted:	09/08/22	Lab ID:	I2-626 mb
Date Analyzed:	09/09/22	Data File:	I2-626 mb.084
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	WE

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/07/22

Project: Superlon Plastics, F&BI 209070

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 209068-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.6	9.7	1	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/07/22

Project: Superlon Plastics, F&BI 209070

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 209075-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	102	104	73-135	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	102	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/07/22

Project: Superlon Plastics, F&BI 209070

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 209061-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	87	93	75-125	7
Lead	mg/L (ppm)	1.0	5.51	102	131 b	75-125	25 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	91	80-120
Lead	mg/L (ppm)	1.0	91	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

09-07-22- Doc

Page # _____ of _____

TURNAROUND TIME

Standard Turnaround _____

X RUSH 3 day TAT mt msg/12/22

Rush charges authorized by: _____

_____ KK

SAMPLE DISPOSAL

Dispose after 30 days _____

Archive Samples _____

Other _____

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>Kenny King</i>	Kenny King	PERC	9/7/22	1:21
Received by: <i>anh</i>	ANH PHAN	FBB	9/7/22	1:21
Relinquished by:			Samples received at 28 °C	
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

September 13, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on September 8, 2022 from the Superlon Plastics, F&BI 209091 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
PRC0913R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 8, 2022 by Friedman & Bruya, Inc. from the PERC Superlon Plastics, F&BI 209091 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>PERC</u>
209091 -01	SO-TC-265A-090722
209091 -02	SO-TC-265B-090722
209091 -03	SO-TC-265C-090722

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/08/22

Project: Superlon Plastics, F&BI 209091

Date Extracted: 09/08/22

Date Analyzed: 09/08/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 56-165)
SO-TC-265A-090722 209091-01	ND	ND	ND	82
SO-TC-265B-090722 209091-02	ND	ND	ND	105
SO-TC-265C-090722 209091-03	ND	ND	ND	107
Method Blank 02-2133 MB	ND	ND	ND	115

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/08/22

Project: Superlon Plastics, F&BI 209091

Date Extracted: 09/08/22

Date Analyzed: 09/09/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 56-165)
SO-TC-265A-090722	<50	<250	107
209091-01			
SO-TC-265B-090722	<50	<250	105
209091-02			
SO-TC-265C-090722	<50	<250	108
209091-03			
Method Blank	<50	<250	189 vo
02-2134 MB			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/08/22

Project: Superlon Plastics, F&BI 209091

Date Extracted: 09/08/22

Date Analyzed: 09/08/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-265A-090722 209091-01	8.9
SO-TC-265B-090722 209091-02	9.0
SO-TC-265C-090722 209091-03	9.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-265A-090722	Client:	PERC
Date Received:	09/08/22	Project:	Superlon Plastics, F&BI 209091
Date Extracted:	09/08/22	Lab ID:	209091-01
Date Analyzed:	09/09/22	Data File:	209091-01.108
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	WE

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-265B-090722	Client:	PERC
Date Received:	09/08/22	Project:	Superlon Plastics, F&BI 209091
Date Extracted:	09/08/22	Lab ID:	209091-02
Date Analyzed:	09/09/22	Data File:	209091-02.111
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	WE

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-265C-090722	Client:	PERC
Date Received:	09/08/22	Project:	Superlon Plastics, F&BI 209091
Date Extracted:	09/08/22	Lab ID:	209091-03
Date Analyzed:	09/09/22	Data File:	209091-03.112
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	WE

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 209091
Date Extracted:	09/08/22	Lab ID:	I2-626 mb
Date Analyzed:	09/09/22	Data File:	I2-626 mb.084
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	WE

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/08/22

Project: Superlon Plastics, F&BI 209091

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 209090-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	2800	95 b	63 b	63-146	41 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	84	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/08/22

Project: Superlon Plastics, F&BI 209091

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 209091-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	8.9	8.9	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/13/22

Date Received: 09/08/22

Project: Superlon Plastics, F&BI 209091

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 209061-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	87	93	75-125	7
Lead	mg/L (ppm)	1.0	5.51	102	131 b	75-125	25 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	91	80-120
Lead	mg/L (ppm)	1.0	91	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

209091

SAMPLE CHAIN OF CUSTODY

09/08/22

AI/

Report To Kenny King
Company PERC Pacific Environmental Redevelopment Co.
Address 8424 E Meadow Lake Drive
City, State, ZIP Spokane, WA 99210
Phone (509) 346-0921 Email KKing@perc-wa.com

SAMPLERS (signature)

PROJECT NAME

Superlon Plastics

REMARKS

Project Specific RLs - Yes / No

PO #

INVOICE TO

Page # _____ of _____

TURNAROUND TIME

Standard Turnaround 2 day net
X RUSH 24 hr by KK 9/14/12 EY/MLC

Rush charges authorized by:

KK

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

[illegible]

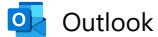
Friedman & Bruya, Inc.

3012 16th Avenue West,

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Kenny King	PERC	9/8/22	12:30
Received by: 	Nhan Phan	FCBI	9/8/22	1340
Relinquished by:				
Received by:				



RE: Four data packages for your review and approval

From Keith Johnston <KJohnston@tpchd.org>

Date Tue 9/20/2022 9:24 AM

To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>; Quyen Keeton <QKeeton@tpchd.org>; Trevor Priestley <TPriestley@tpchd.org>

Hi Jeff,

I have reviewed the data and these soils are acceptable for disposal under WDA 2625R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management

Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>

Sent: Tuesday, September 20, 2022 8:22 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: Four data packages for your review and approval

CAUTION: External Email

Keith:

Attached are four data packages for your review and approval under the permit for the Superlon Plastics site (WDA Permit number 2526R). Each of the samples are from sediment/soil collected in the ditch adjacent to the Superlon Plastics site and represent approximately 23 CY of sediment/soil.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	NWTPH-HCID	NWTPH-Dx (Diesel)	NWTPH-Dx (Motor Oil)	pH	Request
SO-TC-266A-091322	<1	<1	ND	<50	<250	9	Asking for Approval
SO-TC-266B-091322	<1	<1	ND	<50	<250	9.3	Asking for Approval
SO-TC-266C-091322	<1	<1	ND	<50	<250	9	Asking for Approval
SO-TC-267A-091422	<1	<1	ND	<50	<250	9.4	Asking for Approval
SO-TC-267B-091422	<1	<1	ND	<50	<250	9	Asking for Approval
SO-TC-267C-091422	<1	1.68	ND	<50	<250	8.8	Asking for Approval
SO-TC-268A-091422	<1	<1	ND	<50	<250	9.2	Asking for Approval
SO-TC-268B-091422	<1	<1	ND	<50	<250	9.3	Asking for Approval
SO-TC-268C-091422	<1	<1	ND	<50	<250	9.4	Asking for Approval
SO-TC-269A-091522	<1	<1	ND	<50	<250	9.1	Asking for Approval
SO-TC-269B-091522	<1	<1	ND	<50	<250	9.5	Asking for Approval
SO-TC-269C-091522	<1	<1	ND	<50	<250	9.5	Asking for Approval

Thank you

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@percnw.com

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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

September 20, 2022

Kenny King, Project Manager
PERC
8424 E Meadow Lake Dr
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on September 16, 2022 from the Superlon Plastics, F&BI 209237 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Jerffery King
PRC0920R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 16, 2022 by Friedman & Bruya, Inc. from the PERC Superlon Plastics, F&BI 209237 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>PERC</u>
209237 -01	SO-TC-266A-091322
209237 -02	SO-TC-266B-091322
209237 -03	SO-TC-266C-091322

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209237

Date Extracted: 09/16/22

Date Analyzed: 09/16/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 56-165)
SO-TC-266A-091322 209237-01	ND	ND	ND	98
SO-TC-266B-091322 209237-02	ND	ND	ND	80
SO-TC-266C-091322 209237-03	ND	ND	ND	102
Method Blank 02-2221 MB2	ND	ND	ND	103

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209237

Date Extracted: 09/16/22

Date Analyzed: 09/16/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
SO-TC-266A-091322 209237-01	<50	<250	93
SO-TC-266B-091322 209237-02	<50	<250	90
SO-TC-266C-091322 209237-03	<50	<250	91
Method Blank 02-2223 MB	<50	<250	83

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209237

Date Extracted: 09/16/22

Date Analyzed: 09/16/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-266A-091322 209237-01	9.0
SO-TC-266B-091322 209237-02	9.3
SO-TC-266C-091322 209237-03	9.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-266A-091322	Client:	PERC
Date Received:	09/16/22	Project:	Superlon Plastics, F&BI 209237
Date Extracted:	09/18/22	Lab ID:	209237-01
Date Analyzed:	09/19/22	Data File:	209237-01.037
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-266B-091322	Client:	PERC
Date Received:	09/16/22	Project:	Superlon Plastics, F&BI 209237
Date Extracted:	09/18/22	Lab ID:	209237-02
Date Analyzed:	09/19/22	Data File:	209237-02.040
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-266C-091322	Client:	PERC
Date Received:	09/16/22	Project:	Superlon Plastics, F&BI 209237
Date Extracted:	09/18/22	Lab ID:	209237-03
Date Analyzed:	09/19/22	Data File:	209237-03.041
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 209237
Date Extracted:	09/18/22	Lab ID:	I2-655 mb
Date Analyzed:	09/19/22	Data File:	I2-655 mb.035
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209237

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 209245-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	37,000	34 b	31 b	73-135	8 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	92	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209237

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 209237-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.0	9.0	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209237

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 209237-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	88	88	75-125	0
Lead	mg/L (ppm)	1.0	<1	89	91	75-125	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	87	80-120
Lead	mg/L (ppm)	1.0	89	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

09/16/22 BI4

2092 27

Report To Kenny King

Company PERC Pacific Environmental Redevelopment Corporation

Address 8424 E Meadow Lake Dr

City, State, ZIP Snohomish, WA 98290

Phone (425) 346-0921 Email KKing@perc-nw.com

SAMPLERS (signature)

PROJECT NAME

PO #

Superlon Plastics

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

Page # of

TURNAROUND TIME

Standard Turnaround

X RUSH 24 hr per KK 9/16/22

Rush charges authorized by: ME

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TCLP 1311 As/Pb Only	pH 9045C	NWTPH-HCID	NWTPH-DX		
SO-TC-266A-091322	01	9/13/22	11:10	SOIL	1								✓	✓	✓	✓	
SO-TC-266B-091322	02	9/13/22	11:20	SOIL	1								✓	✓	✓	✓	
SO-TC-266C-091322	03	9/13/22	11:30	SOIL	1								✓	✓	✓	✓	

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Kenny King</u>	<u>Kenny King</u>	<u>PERC</u>	<u>9/15/22</u>	<u>9:21</u>
Received by: <u>ANH PHARY</u>	<u>ANH PHARY</u>	<u>F&B</u>	<u>09/16/22</u>	<u>10:27</u>
Relinquished by:				
Received by:		Samples received at <u>21</u> °C		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

September 20, 2022

Kenny King, Project Manager
PERC
8424 E Meadow Lake Dr
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on September 16, 2022 from the Superlon Plastics, F&BI 209238 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Jeffery King
PRC0920R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 16, 2022 by Friedman & Bruya, Inc. from the PERC Superlon Plastics, F&BI 209238 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>PERC</u>
209238 -01	SO-TC-267A-091422
209238 -02	SO-TC-267B-091422
209238 -03	SO-TC-267C-091422

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209238

Date Extracted: 09/16/22

Date Analyzed: 09/16/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 56-165)
SO-TC-267A-091422 209238-01	ND	ND	ND	99
SO-TC-267B-091422 209238-02	ND	ND	ND	100
SO-TC-267C-091422 209238-03	ND	ND	ND	101
Method Blank 02-2221 MB2	ND	ND	ND	103

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209238

Date Extracted: 09/16/22

Date Analyzed: 09/16/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
SO-TC-267A-091422 209238-01	<50	<250	93
SO-TC-267B-091422 209238-02	<50	<250	92
SO-TC-267C-091422 209238-03	<50	<250	95
Method Blank 02-2223 MB	<50	<250	83

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209238

Date Extracted: 09/16/22

Date Analyzed: 09/16/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-267A-091422 209238-01	9.4
SO-TC-267A-091422 209238-02	9.0
SO-TC-267A-091422 209238-03	8.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-267A-091422	Client:	PERC
Date Received:	09/16/22	Project:	Superlon Plastics, F&BI 209238
Date Extracted:	09/18/22	Lab ID:	209238-01
Date Analyzed:	09/19/22	Data File:	209238-01.047
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-267B-091422	Client:	PERC
Date Received:	09/16/22	Project:	Superlon Plastics, F&BI 209238
Date Extracted:	09/18/22	Lab ID:	209238-02
Date Analyzed:	09/19/22	Data File:	209238-02.048
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-267C-091422	Client:	PERC
Date Received:	09/16/22	Project:	Superlon Plastics, F&BI 209238
Date Extracted:	09/18/22	Lab ID:	209238-03
Date Analyzed:	09/19/22	Data File:	209238-03.049
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	1.68	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 209238
Date Extracted:	09/18/22	Lab ID:	I2-655 mb
Date Analyzed:	09/19/22	Data File:	I2-655 mb.035
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209238

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 209245-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	37,000	34 b	31 b	73-135	8 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	92	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209238

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 209237-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.0	9.0	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209238

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 209237-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	88	88	75-125	0
Lead	mg/L (ppm)	1.0	<1	89	91	75-125	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	87	80-120
Lead	mg/L (ppm)	1.0	89	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

209238

SAMPLE CHAIN OF CUSTODY

09/16/22

BT 4

Report To Kenny King
 Company PERC Pacific Environmental Remediation Corporation
 Address 8424 E Meadow Lake Drive
 City, State, ZIP Snohomish, WA 98290
 Phone (425) 346-0921 Email KKing@perc-tlw.com

SAMPLERS (signature)

PROJECT NAME

PO#

Superlon Plastics

REMARKS

INVOICE TO

Project Specific R/Ls - Yes / No

Page # of

TURNAROUND TIME

Standard Turnaround
 X RUSH 24 hr per 9/14/22
 Rush charges authorized by:
ET/ME

SAMPLE DISPOSAL

Dispose after 30 days
 Archive Samples
 Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TCLP 1311 As/Pb Only	pH 4045 C	NWTPH-HClD	NWTPH-Dx	
SO-TC-267A-09/14/22	01	9/14/22	8:10	SOIL	1							✓	✓	✓	✓	
SO-TC-267B-09/14/22	02	9/14/22	8:20	SOIL	1							✓	✓	✓	✓	
SO-TC-267C-09/14/22	03	9/14/22	8:30	SOIL	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Kenny King</u>	<u>Kenny King</u>	<u>PERC</u>	<u>9/15/22</u>	<u>9:21</u>
Received by: <u>ANH</u>	<u>ANH PHAN</u>	<u>F&B</u>	<u>09/16/22</u>	<u>10:27</u>
Relinquished by:				
Received by:				

Samples received at 21 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

September 20, 2022

Kenny King, Project Manager
PERC
8424 E Meadow Lake Dr
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on September 16, 2022 from the Superlon Plastics, F&BI 209239 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Jeffery King
PRC0920R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 16, 2022 by Friedman & Bruya, Inc. from the PERC Superlon Plastics, F&BI 209239 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>PERC</u>
209239 -01	SO-TC-268A-091422
209239 -02	SO-TC-268B-091422
209239 -03	SO-TC-268C-091422

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209239

Date Extracted: 09/16/22

Date Analyzed: 09/16/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 56-165)
SO-TC-268A-091422 209239-01	ND	ND	ND	99
SO-TC-268B-091422 209239-02	ND	ND	ND	102
SO-TC-268C-091422 209239-03	ND	ND	ND	100
Method Blank 02-2221 MB2	ND	ND	ND	103

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209239

Date Extracted: 09/16/22

Date Analyzed: 09/16/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
SO-TC-268A-091422 209239-01	<50	<250	91
SO-TC-268B-091422 209239-02	<50	<250	91
SO-TC-268C-091422 209239-03	<50	<250	97
Method Blank 02-2223 MB	<50	<250	83

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209239

Date Extracted: 09/16/22

Date Analyzed: 09/16/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-268A-091422 209239-01	9.2
SO-TC-268B-091422 209239-02	9.3
SO-TC-268C-091422 209239-03	9.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-268A-091422	Client:	PERC
Date Received:	09/16/22	Project:	Superlon Plastics, F&BI 209239
Date Extracted:	09/18/22	Lab ID:	209239-01
Date Analyzed:	09/19/22	Data File:	209239-01.050
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-268B-091422	Client:	PERC
Date Received:	09/16/22	Project:	Superlon Plastics, F&BI 209239
Date Extracted:	09/18/22	Lab ID:	209239-02
Date Analyzed:	09/19/22	Data File:	209239-02.051
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-268C-091422	Client:	PERC
Date Received:	09/16/22	Project:	Superlon Plastics, F&BI 209239
Date Extracted:	09/18/22	Lab ID:	209239-03
Date Analyzed:	09/19/22	Data File:	209239-03.052
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 209239
Date Extracted:	09/18/22	Lab ID:	I2-655 mb
Date Analyzed:	09/19/22	Data File:	I2-655 mb.035
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209239

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 209245-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	37,000	34 b	31 b	73-135	8 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	92	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209239

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 209237-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.0	9.0	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209239

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 209237-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	88	88	75-125	0
Lead	mg/L (ppm)	1.0	<1	89	91	75-125	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	87	80-120
Lead	mg/L (ppm)	1.0	89	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

209239

SAMPLE CHAIN OF CUSTODY

09/16/22

BI 4

Report To Kenny KingCompany PERC Pacific Environmental RedevelopmentAddress 8424 E Meadow Lake DriveCity, State, ZIP Shobomish, WA 98290Phone (425) 346-0921 Email KKing@perc-nw.com

SAMPLERS (signature)

PROJECT NAME

Superlon Plastics

PO #

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

Page # _____ of _____

TURNAROUND TIME

Standard Turnaround

X RUSH 24 hours per K 9/16/22

Rush charges authorized by:

ET/ML

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TCDF 13H As/Pb Only	pH 9045C	NWTPH-HCID	NWTPH-Dx	
SO-TC-268A-09/14/22	01	9/14/22	13:50	Soil	1							✓	✓	✓	✓	
SO-TC-268B-09/14/22	02	9/14/22	14:00	Soil	1							✓	✓	✓	✓	
SO-TC-268C-09/14/22	03	9/14/22	14:10	Soil	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE

Relinquished by:

Kenny King

Received by:

ANH

Relinquished by:

Received by:

PRINT NAME

Kenny KingANH PHAN

COMPANY

PERCF&B

DATE

9/16/2209/16/22

TIME

9:2110:27Samples received at 21 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

September 20, 2022

Kenny King, Project Manager
PERC
8424 E Meadow Lake Dr
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on September 16, 2022 from the Superlon Plastics, F&BI 209240 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Jeffery King
PRC0920R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 16, 2022 by Friedman & Bruya, Inc. from the PERC Superlon Plastics, F&BI 209240 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>PERC</u>
209240 -01	SO-TC-269A-091522
209240 -02	SO-TC-269B-091522
209240 -03	SO-TC-269C-091522

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209240

Date Extracted: 09/16/22

Date Analyzed: 09/16/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 56-165)
SO-TC-269A-091522 209240-01	ND	ND	ND	98
SO-TC-269B-091522 209240-02	ND	ND	ND	105
SO-TC-269C-091522 209240-03	ND	ND	ND	97
Method Blank 02-2221 MB2	ND	ND	ND	103

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209240

Date Extracted: 09/16/22

Date Analyzed: 09/16/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
SO-TC-269A-091522 209240-01	<50	<250	99
SO-TC-269B-091522 209240-02	<50	<250	113
SO-TC-269C-091522 209240-03	<50	<250	93
Method Blank 02-2223 MB	<50	<250	83

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209240

Date Extracted: 09/16/22

Date Analyzed: 09/16/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-269A-091522 209240-01	9.1
SO-TC-269B-091522 209240-02	9.5
SO-TC-269C-091522 209240-03	9.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-269A-091522	Client:	PERC
Date Received:	09/16/22	Project:	Superlon Plastics, F&BI 209240
Date Extracted:	09/18/22	Lab ID:	209240-01
Date Analyzed:	09/19/22	Data File:	209240-01.042
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-269B-091522	Client:	PERC
Date Received:	09/16/22	Project:	Superlon Plastics, F&BI 209240
Date Extracted:	09/18/22	Lab ID:	209240-02
Date Analyzed:	09/19/22	Data File:	209240-02.043
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-269C-091522	Client:	PERC
Date Received:	09/16/22	Project:	Superlon Plastics, F&BI 209240
Date Extracted:	09/18/22	Lab ID:	209240-03
Date Analyzed:	09/19/22	Data File:	209240-03.044
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 209240
Date Extracted:	09/18/22	Lab ID:	I2-655 mb
Date Analyzed:	09/19/22	Data File:	I2-655 mb.035
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209240

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 209245-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	37,000	34 b	31 b	73-135	8 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	92	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209240

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 209237-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.0	9.0	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/22

Date Received: 09/16/22

Project: Superlon Plastics, F&BI 209240

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 209237-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	88	88	75-125	0
Lead	mg/L (ppm)	1.0	<1	89	91	75-125	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	87	80-120
Lead	mg/L (ppm)	1.0	89	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

209240

SAMPLE CHAIN OF CUSTODY

09/16/22

BI4

Report To Kenny King
 Company PERC Pacific Environmental Redevelopment Corporation
 Address 8424 E Meadow Lake
 City, State, ZIP Shoreline, WA 98148
 Phone (206) 346-0921 Email KKing@perc-nw.com

SAMPLERS (signature)

PROJECT NAME

PO #

Superlon Plastics

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

Page # _____ of _____

TURNAROUND TIME

Standard Turnaround
 * RUSH 24 hr per KR 9/16/22
 Rush charges authorized by: ET/ME

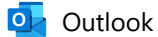
SAMPLE DISPOSAL

Dispose after 30 days
 Archive Samples
 Other _____

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TCDF 131 As/Pb Only	pH 9045C	NWTPH-HCID	NWTPH-Dx	
SO-TC-269A-091522	01	9/15/22	6:55	SOIL	1							✓	✓	✓	✓	
SO-TC-269B-091522	02	9/15/22	7:05	SOIL	1							✓	✓	✓	✓	
SO-TC-269C-091522	03	9/15/22	7:15	SOIL	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Kenny King</u>	<u>Kenny King</u>	<u>PERC</u>	<u>9/15/22</u>	<u>9:21</u>
Received by: <u>Ann Phan</u>	<u>ANN PHAN</u>	<u>F&B</u>	<u>09/16/22</u>	<u>10:27</u>
Relinquished by:				
Received by:				
Samples received at <u>21 °C</u>				



RE: Two data packages for your review and approval.

From EH SolidWaste <EHSolidWaste@tpchd.org>
Date Thu 9/29/2022 10:26 AM
To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc kking perc-nw.com <kking@perc-nw.com>

Hi Jeff,

I have reviewed the data and these soils are appropriate for disposal under WDA 2625R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
 Environmental Health
 (253) 405-8604 c • kjohnston@tpchd.org
 (253) 649-1840 o • www.tpchd.org



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We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>
Sent: Monday, September 26, 2022 3:12 PM
To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc: 'kking@perc-nw.com' <kking@perc-nw.com>
Subject: Two data packages for your review and approval.

CAUTION: External Email

Keith:

Attached are two data packages for your review and approval under the permit for the Superlon Plastics site (WDA Permit number 2526R). Each of the samples are from sediment/soil collected in the ditch adjacent to the Superlon Plastics site and represent approximately 23 CY of sediment/soil.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	NWTPH-HCID	NWTPH-Dx (Diesel)	NWTPH-Dx (Motor Oil)	pH	Request
SO-TC-270A-092122	<1	<1	ND	<50	<250	8.1	Asking for Approval
SO-TC-270B-092122	<1	<1	ND	<50	<250	9	Asking for Approval
SO-TC-270C-092122	<1	<1	ND	<50	<250	8.2	Asking for Approval
SO-TC-271A-092122	<1	<1	ND	200	810	8.6	Asking for Approval
SO-TC-271B-092122	<1	<1	ND	120	550	8.8	Asking for Approval
SO-TC-271C-092122	<1	<1	ND	<50	<250	8.8	Asking for Approval

Thank you
 Jeff

Jeffrey D King, PG/LG

President/Geologist

[Pacific Environmental & Redevelopment Corporation \(PERC\)](#)

8424 E Meadow Lake Drive

10/10/24, 8:49 PM

Mail - kking perc-nw.com - Outlook

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

This communication is for use by the intended recipient and contains information that may be privileged, confidential or copyrighted under applicable law. If you are not the intended recipient, you are hereby formally notified that any use, copying or distribution of this e-mail, in whole or in part, is strictly prohibited. Please notify the sender by return e-mail and delete this e-mail from your system. This e-mail does not constitute a consent to the use of sender's contact information for direct marketing purposes or for transfers of data to third parties. Thank you.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

September 26, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on September 22, 2022 from the Superlon Plastics, F&BI 209350 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Jeff King (PRC)
PRC0926R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 22, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 209350 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
209350 -01	SO-TC-270A-092122
209350 -02	SO-TC-270B-092122
209350 -03	SO-TC-270C-092122

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/26/22

Date Received: 09/22/22

Project: Superlon Plastics, F&BI 209350

Date Extracted: 09/22/22

Date Analyzed: 09/22/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 56-165)
SO-TC-270A-092122 209350-01	ND	ND	ND	103
SO-TC-270B-092122 209350-02	ND	ND	ND	106
SO-TC-270C-092122 209350-03	ND	ND	ND	114
Method Blank 02-2253 MB	ND	ND	ND	99

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/26/22

Date Received: 09/22/22

Project: Superlon Plastics, F&BI 209350

Date Extracted: 09/22/22

Date Analyzed: 09/22/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
SO-TC-270A-092122 209350-01	<50	<250	100
SO-TC-270B-092122 209350-02	<50	<250	99
SO-TC-270C-092122 209350-03	<50	<250	102
Method Blank 02-2247 MB2	<50	<250	97

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/26/22

Date Received: 09/22/22

Project: Superlon Plastics, F&BI 209350

Date Extracted: 09/23/22

Date Analyzed: 09/23/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-270A-092122 209350-01	8.1
SO-TC-270B-092122 209350-02	9.0
SO-TC-270C-092122 209350-03	8.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-270A-092122	Client:	PERC
Date Received:	09/22/22	Project:	Superlon Plastics, F&BI 209350
Date Extracted:	09/22/22	Lab ID:	209350-01
Date Analyzed:	09/23/22	Data File:	209350-01.079
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-270B-092122	Client:	PERC
Date Received:	09/22/22	Project:	Superlon Plastics, F&BI 209350
Date Extracted:	09/22/22	Lab ID:	209350-02
Date Analyzed:	09/23/22	Data File:	209350-02.080
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-270C-092122	Client:	PERC
Date Received:	09/22/22	Project:	Superlon Plastics, F&BI 209350
Date Extracted:	09/22/22	Lab ID:	209350-03
Date Analyzed:	09/23/22	Data File:	209350-03.081
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 209350
Date Extracted:	09/22/22	Lab ID:	I2-672 mb
Date Analyzed:	09/23/22	Data File:	I2-672 mb.077
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/26/22

Date Received: 09/22/22

Project: Superlon Plastics, F&BI 209350

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 209318-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	9,000	60 b	40 b	73-135	40 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	102	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/26/22

Date Received: 09/22/22

Project: Superlon Plastics, F&BI 209350

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 209350-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	8.1	8.1	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/26/22

Date Received: 09/22/22

Project: Superlon Plastics, F&BI 209350

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 209324-13 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	95	98	75-125	3
Lead	mg/L (ppm)	1.0	15.9	111	107	75-125	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	94	80-120
Lead	mg/L (ppm)	1.0	100	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

209350

SAMPLE CHAIN OF CUSTODY

09/22/22

A02

Report To Kenny KingCompany PERC Pacific Environmental Redevelopment CorporationAddress 8424 E Meadow Lake DriveCity, State, ZIP Shohomish, WA 98290Phone (425) 346-0921 Email kking@perc-nw.com

SAMPLERS (signature)

Page # _____ of _____

PROJECT NAME

PO #

Superlon Plastics

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

TURNAROUND TIME

Standard Turnaround

X RUSH 24h JAT per KERush charges authorized by: KE

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other _____

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TCDF 1311	As/Pb Only	pH 9015C	NWTPH-HQID	
SO-TC-270A-092122	01	9/21/22	10:35	SOIL	1							✓	✓	✓	✓	
SO-TC-270B-092122	02	9/21/22	10:45	SOIL	1							✓	✓	✓	✓	
SO-TC-270C-092122	03	9/21/22	10:55	SOIL	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Kenny King</u>	Kenny King	PERC	9/22/22	9:06
Received by: <u>ANH</u>	ANH PHAN	F&B	09/22/22	10:15
Relinquished by:				
Received by:				
		Samples received at 20°C		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

September 26, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on September 22, 2022 from the Superlon Plastics, F&BI 209351 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Jeff King (PRC)
PRC0926R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 22, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 209351 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
209351 -01	SO-TC-271A-092122
209351 -02	SO-TC-271B-092122
209351 -03	SO-TC-271C-092122

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/26/22

Date Received: 09/22/22

Project: Superlon Plastics, F&BI 209351

Date Extracted: 09/22/22

Date Analyzed: 09/22/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 56-165)
SO-TC-271A-092122 209351-01	ND	ND	D	102
SO-TC-271B-092122 209351-02	ND	ND	D	120
SO-TC-271C-092122 209351-03	ND	ND	ND	118
Method Blank 02-2253 MB	ND	ND	ND	99

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/26/22

Date Received: 09/22/22

Project: Superlon Plastics, F&BI 209351

Date Extracted: 09/22/22

Date Analyzed: 09/22/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u> <u>(% Recovery)</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(Limit 56-165)
SO-TC-271A-092122 209351-01	200 x	810	106
SO-TC-271B-092122 209351-02	120 x	550	123
SO-TC-271C-092122 209351-03	<50	<250	118
Method Blank 02-2251 MB	<50	<250	103

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/26/22

Date Received: 09/22/22

Project: Superlon Plastics, F&BI 209351

Date Extracted: 09/23/22

Date Analyzed: 09/23/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-271A-092122 209351-01	8.6
SO-TC-271B-092122 209351-02	8.8
SO-TC-271C-092122 209351-03	8.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-271A-092122	Client:	PERC
Date Received:	09/22/22	Project:	Superlon Plastics, F&BI 209351
Date Extracted:	09/22/22	Lab ID:	209351-01
Date Analyzed:	09/23/22	Data File:	209351-01.082
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-271B-092122	Client:	PERC
Date Received:	09/22/22	Project:	Superlon Plastics, F&BI 209351
Date Extracted:	09/22/22	Lab ID:	209351-02
Date Analyzed:	09/23/22	Data File:	209351-02.087
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-271C-092122	Client:	PERC
Date Received:	09/22/22	Project:	Superlon Plastics, F&BI 209351
Date Extracted:	09/22/22	Lab ID:	209351-03
Date Analyzed:	09/23/22	Data File:	209351-03.088
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 209351
Date Extracted:	09/22/22	Lab ID:	I2-672 mb
Date Analyzed:	09/23/22	Data File:	I2-672 mb.077
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/26/22

Date Received: 09/22/22

Project: Superlon Plastics, F&BI 209351

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 209333-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	82	90	63-146	9

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	84	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/26/22

Date Received: 09/22/22

Project: Superlon Plastics, F&BI 209351

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 209350-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	8.1	8.1	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/26/22

Date Received: 09/22/22

Project: Superlon Plastics, F&BI 209351

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 209324-13 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	95	98	75-125	3
Lead	mg/L (ppm)	1.0	15.9	111	107	75-125	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	94	80-120
Lead	mg/L (ppm)	1.0	100	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

NP 209346 209351
 Report To Kenny King
 Company PERC Pacific Environmental Redevelopment Corporation
 Address 8424 E Meadow Lake Drive
 City, State, ZIP Smohomish, WA 98290
 Phone (425) 346-0921 Email KKing@perc-nw.com

SAMPLE CHAIN OF CUSTODY

09/22/22 A02
 Page # of

SAMPLERS (signature) _____

PROJECT NAME

PO #

Superion Plastics

REMARKS

INVOICE TO

Project Specific ☐ Yes / No

TURNAROUND TIME

Standard Turnaround
 X RUSH 24 hr per KK
 Rush charges authorized by: KK

SAMPLE DISPOSAL

Dispose after 30 days
 Archive Samples
 Other _____

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TCLP 131 As/Pb Only	pH 9045C	NWTPH-Held	NWTPH-Dx	
SO-TC-271A-092122	01	9/21/22	14:55	SOIL	1							✓	✓	✓	✓	
SO-TC-271B-092122	02	9/21/22	15:05	SOIL	1							✓	✓	✓	✓	
SO-TC-271C-092122	03	9/21/22	15:15	SOIL	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Kenny King</u>	<u>Kenny King</u>	<u>PERC</u>	<u>9/22/22</u>	<u>9:06</u>
Received by: <u>Andy Phan</u>	<u>ANDY PHAN</u>	<u>FBB</u>	<u>09/22/22</u>	<u>10:15</u>
Relinquished by: _____	_____	_____	_____	_____
Received by: _____	_____	Samples received at <u>20°C</u>		



RE: Four data packages for your review and approval

From Keith Johnston <KJohnston@tpchd.org>

Date Fri 10/7/2022 9:18 AM

To kking perc-nw.com <kking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc JEFFREY KING <jking@percnw.com>

Hi Kenny,

I have reviewed the data and these soils are acceptable for disposal under WDA 2625R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: kking perc-nw.com <kking@perc-nw.com>

Sent: Friday, October 7, 2022 7:56 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: JEFFREY KING <jking@percnw.com>

Subject: Four data packages for your review and approval

CAUTION: External Email

Hi Keith,

My name is Kenny King and I am filling in for Jeff when he is on vacation.

Attached are four data packages for your review and approval under the permit for the Superlon Plastics site (WDA Permit number 2526R). Each of the samples are from sediment/soil collected in

the ditch adjacent to the Superlon Plastics site and represent approximately 23 CY of sediment/soil. Please do not hesitate to ask should you have any questions.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	NWTPH-HCID	NWTPH-Dx	pH	Request
SO-TC-272A-100322	<1	<1	ND	ND	9.3	Asking for approval
SO-TC-272B-100322	<1	<1	ND	ND	9.4	Asking for approval
SO-TC-272C-100322	<1	<1	ND	ND	9.4	Asking for approval
SO-TC-273A-100422	<1	<1	ND	ND	9.1	Asking for approval
SO-TC-273B-100422	<1	<1	ND	ND	9.5	Asking for approval
SO-TC-273C-100422	<1	<1	ND	ND	9.6	Asking for approval
SO-TC-274A-100422	<1	<1	ND	ND	9.2	Asking for approval
SO-TC-274B-100422	<1	<1	ND	ND	9.5	Asking for approval
SO-TC-274C-100422	<1	<1	ND	ND	9.6	Asking for approval
SO-TC-275A-100522	<1	<1	ND	ND	9.3	Asking for approval
SO-TC-275B-100522	<1	<1	ND	ND	9.2	Asking for approval
SO-TC-275C-100522	<1	<1	ND	ND	9.3	Asking for approval

Thanks
Kenny

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 6, 2022

Kenny King, Project Manager
Pacific Environmental Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on October 5, 2022 from the Superlon Plastics, F&BI 210045 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jeff King (PRC), Kim Oliva-Membreno (PRC)
PRC1006R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 5, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental Redevelopment Corporation Superlon Plastics, F&BI 210045 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental Redevelopment Corporation</u>
210045 -01	SO-TC-272A-100322
210045 -02	SO-TC-272B-100322
210045 -03	SO-TC-272C-100322

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210045

Date Extracted: 10/05/22

Date Analyzed: 10/05/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SO-TC-272A-100322 210045-01	ND	ND	ND	125
SO-TC-272B-100322 210045-02	ND	ND	ND	112
SO-TC-272C-100322 210045-03	ND	ND	ND	111
Method Blank 02-2416 MB	ND	ND	ND	104

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210045

Date Extracted: 10/05/22

Date Analyzed: 10/05/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 56-165)
SO-TC-272A-100322	<50	<250	129
210045-01			
SO-TC-272B-100322	<50	<250	126
210045-02			
SO-TC-272C-100322	<50	<250	127
210045-03			
Method Blank	<50	<250	82
02-2407 MB			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210045

Date Extracted: 10/05/22

Date Analyzed: 10/05/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-272A-100322 210045-01	9.3
SO-TC-272B-100322 210045-02	9.4
SO-TC-272C-100322 210045-03	9.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-272A-100322	Client:	PERC
Date Received:	10/05/22	Project:	Superlon Plastics, F&BI 210045
Date Extracted:	10/05/22	Lab ID:	210045-01
Date Analyzed:	10/06/22	Data File:	210045-01.052
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-272B-100322	Client:	PERC
Date Received:	10/05/22	Project:	Superlon Plastics, F&BI 210045
Date Extracted:	10/05/22	Lab ID:	210045-02
Date Analyzed:	10/06/22	Data File:	210045-02.055
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-272C-100322	Client:	PERC
Date Received:	10/05/22	Project:	Superlon Plastics, F&BI 210045
Date Extracted:	10/05/22	Lab ID:	210045-03
Date Analyzed:	10/06/22	Data File:	210045-03.056
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 210045
Date Extracted:	10/05/22	Lab ID:	I2-713 mb
Date Analyzed:	10/06/22	Data File:	I2-713 mb.050
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210045

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 210032-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	114	108	73-135	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	112	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210045

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 210046-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.1	9.1	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210045

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 210045-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	89	87	75-125	2
Lead	mg/L (ppm)	1.0	<1	91	90	75-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	88	80-120
Lead	mg/L (ppm)	1.0	89	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

21004 ~~NP~~ 210045

SAMPLE CHAIN OF CUSTODY

10/05/22

BTy

Report To Kenny KingCompany PERC Pacific Environmental Redevelopment CorporationAddress 8424 E Meadow Lake DriveCity, State, ZIP Snohomish, WA 98290Phone (425) 346-0921 Email KKing@perc-nw.com

SAMPLERS (signature)

PROJECT NAME

Superlon Plastics

PO #

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

Page # _____ of _____

TURNAROUND TIME

Standard Turnaround

RUSH ASAP

Rush charges authorized by: _____

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other _____

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TCs PCBs 1311 As/Pb Only	pH 9045C	NWTPH-HCID	NWTPH-Dx	
SO-TC-272A-100322	01	10/3/22	14:40	SOIL	1							✓	✓	✓	✓	
SO-TC-272B-100322	02	10/3/22	14:50	SOIL	1							✓	✓	✓	✓	
SO-TC-272C-100322	03	10/3/22	15:00	SOIL	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE

Relinquished by:

Kenny King

Received by:

Relinquished by:

Received by:

PRINT NAME

Kenny KingNhan Phan

COMPANY

PERCFEBI

DATE

10/5/2210/5/22

TIME

8:331050Sampler received at 20°C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 6, 2022

Kenny King, Project Manager
Pacific Environmental Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on October 5, 2022 from the Superlon Plastics, F&BI 210046 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jeff King (PRC), Kim Oliva-Membreno (PRC)
PRC1006R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 5, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental Redevelopment Corporation Superlon Plastics, F&BI 210046 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental Redevelopment Corporation</u>
210046 -01	SO-TC-273A-100422
210046 -02	SO-TC-273B-100422
210046 -03	SO-TC-273C-100422

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210046

Date Extracted: 10/05/22

Date Analyzed: 10/05/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SO-TC-273A-100422 210046-01	ND	ND	ND	110
SO-TC-273B-100422 210046-02	ND	ND	ND	116
SO-TC-273C-100422 210046-03	ND	ND	ND	124
Method Blank 02-2416 MB	ND	ND	ND	104

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210046

Date Extracted: 10/05/22

Date Analyzed: 10/05/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 56-165)
SO-TC-273A-100422	<50	<250	122
210046-01			
SO-TC-273B-100422	<50	<250	115
210046-02			
SO-TC-273C-100422	<50	<250	126
210046-03			
Method Blank	<50	<250	126
02-2417 MB			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210046

Date Extracted: 10/05/22

Date Analyzed: 10/05/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-273A-100422 210046-01	9.1
SO-TC-273B-100422 210046-02	9.5
SO-TC-273C-100422 210046-03	9.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-273A-100422	Client:	PERC
Date Received:	10/05/22	Project:	Superlon Plastics, F&BI 210046
Date Extracted:	10/05/22	Lab ID:	210046-01
Date Analyzed:	10/06/22	Data File:	210046-01.057
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-273B-100422	Client:	PERC
Date Received:	10/05/22	Project:	Superlon Plastics, F&BI 210046
Date Extracted:	10/05/22	Lab ID:	210046-02
Date Analyzed:	10/06/22	Data File:	210046-02.058
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-273C-100422	Client:	PERC
Date Received:	10/05/22	Project:	Superlon Plastics, F&BI 210046
Date Extracted:	10/05/22	Lab ID:	210046-03
Date Analyzed:	10/06/22	Data File:	210046-03.059
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 210046
Date Extracted:	10/05/22	Lab ID:	I2-713 mb
Date Analyzed:	10/06/22	Data File:	I2-713 mb.050
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210046

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 210046-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	96	102	63-146	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	102	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210046

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 210046-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.1	9.1	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210046

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 210045-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	89	87	75-125	2
Lead	mg/L (ppm)	1.0	<1	91	90	75-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	88	80-120
Lead	mg/L (ppm)	1.0	89	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

46
2100 4A (NP)

SAMPLE CHAIN OF CUSTODY

10/05/22 BTY

Report To Kenny King
Company PERC Redevelopment Co., Inc.
Address 8424 E Meadow Lake Drive
City, State, ZIP Snohomish, WA 98290
Phone (425) 346-0921 Email Kking@perc-mw.com

SAMPLERS (signature)

PROJECT NAME

PO #

Superlon Plastics

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

Page # of

TURNAROUND TIME

Standard Turnaround

RUSH ASAP

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	ICLs 1311 As/Pb Only	25406 Hg	NWTPH-HCID	NWTPH-Dx	
SO-TC-273A-100422	01	10/4/22	9:20	SOIL	1							✓	✓	✓	✓	
SO-TC-273B-100422	02	10/4/22	9:30	SOIL	1							✓	✓	✓	✓	
SO-TC-273C-100422	03	10/4/22	9:40	SOIL	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Kenny King</u>	<u>Kenny King</u>	<u>PERC</u>	<u>10/5/22</u>	<u>8:33</u>
Received by: <u>Nhan Phan</u>	<u>Nhan Phan</u>	<u>FE B I</u>	<u>10/5/22</u>	<u>1052</u>
Relinquished by:				
Received by:		Samples received at <u>20°C</u>		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 6, 2022

Kenny King, Project Manager
Pacific Environmental Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on October 5, 2022 from the Superlon Plastics, F&BI 210047 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jeff King (PRC), Kim Oliva-Membreno (PRC)
PRC1006R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 5, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental Redevelopment Corporation Superlon Plastics, F&BI 210047 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental Redevelopment Corporation</u>
210047 -01	SO-TC-274A-100422
210047 -02	SO-TC-274B-100422
210047 -03	SO-TC-274C-100422

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210047

Date Extracted: 10/05/22

Date Analyzed: 10/05/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SO-TC-274A-100422 210047-01	ND	ND	ND	127
SO-TC-274B-100422 210047-02	ND	ND	ND	126
SO-TC-274C-100422 210047-03	ND	ND	ND	126
Method Blank 02-2416 MB	ND	ND	ND	104

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210047

Date Extracted: 10/05/22

Date Analyzed: 10/05/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 56-165)
SO-TC-274A-100422	<50	<250	125
210047-01			
SO-TC-274B-100422	<50	<250	115
210047-02			
SO-TC-274C-100422	<50	<250	128
210047-03			
Method Blank	<50	<250	115
02-2406 MB			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210047

Date Extracted: 10/05/22

Date Analyzed: 10/05/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-274A-100422 210047-01	9.2
SO-TC-274B-100422 210047-02	9.5
SO-TC-274C-100422 210047-03	9.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-274A-100422	Client:	PERC
Date Received:	10/05/22	Project:	Superlon Plastics, F&BI 210047
Date Extracted:	10/05/22	Lab ID:	210047-01
Date Analyzed:	10/06/22	Data File:	210047-01.062
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-274B-100422	Client:	PERC
Date Received:	10/05/22	Project:	Superlon Plastics, F&BI 210047
Date Extracted:	10/05/22	Lab ID:	210047-02
Date Analyzed:	10/06/22	Data File:	210047-02.063
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-274C-100422	Client:	PERC
Date Received:	10/05/22	Project:	Superlon Plastics, F&BI 210047
Date Extracted:	10/05/22	Lab ID:	210047-03
Date Analyzed:	10/06/22	Data File:	210047-03.064
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 210047
Date Extracted:	10/05/22	Lab ID:	I2-713 mb
Date Analyzed:	10/06/22	Data File:	I2-713 mb.050
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210047

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 210029-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	20,000	90 b	22 b	63-146	120 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	96	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210047

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 210046-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.1	9.1	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210047

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 210045-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	89	87	75-125	2
Lead	mg/L (ppm)	1.0	<1	91	90	75-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	88	80-120
Lead	mg/L (ppm)	1.0	89	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

210046 (NP) 47

SAMPLE CHAIN OF CUSTODY

10/05/22

BT4

Report To Kenny King
 Company PERC Pacific Environmental Remediation Corporation
 Address 8424 E Meadow Lake Drive
 City, State, ZIP Shoreline, WA 98148
 Phone (206) 346-0921 Email KKing@perc-nw.com

SAMPLERS (signature)

PROJECT NAME

PO #

Superior Plastics

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

Page # of

TURNAROUND TIME

Standard Turnaround

RUSH ASAP

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TCAP 1311 As Pb Only	pH 9045C	NWTPH-HCID	NWTPH-Dx	
SO-TC-274A-100422	01	10/4/22	13:10	SOIL	1							✓	✓	✓	✓	
SO-TC-274B-100422	02	10/4/22	13:20	SOIL	1							✓	✓	✓	✓	
SO-TC-274C-100422	03	10/4/22	13:30	SOIL	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Kenny King</u>	<u>Kenny King</u>	<u>PERC</u>	<u>10/5/22</u>	<u>8:33</u>
Received by: <u>Whan Phan</u>	<u>Whan Phan</u>	<u>Ex BT</u>	<u>10/5/22</u>	<u>1052</u>
Relinquished by:				
Received by:		Samples received at	<u>2000</u>	

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 6, 2022

Kenny King, Project Manager
Pacific Environmental Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on October 5, 2022 from the Superlon Plastics, F&BI 210048 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jeff King (PRC), Kim Oliva-Membreno (PRC)
PRC1006R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 5, 2022 by Friedman & Bruya, Inc. from the Analytical Resources, LLC Superlon Plastics, F&BI 210048 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Analytical Resources, LLC</u>
210048 -01	SO-TC-275A-100522
210048 -02	SO-TC-275B-100522
210048 -03	SO-TC-275C-100522

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210048

Date Extracted: 10/05/22

Date Analyzed: 10/05/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SO-TC-275A-100522 210048-01	ND	ND	ND	129
SO-TC-275B-100522 210048-02	ND	ND	ND	131
SO-TC-275C-100522 210048-03	ND	ND	ND	128
Method Blank 02-2416 MB	ND	ND	ND	104

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210048

Date Extracted: 10/05/22

Date Analyzed: 10/05/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 56-165)
SO-TC-275A-100522	<50	<250	117
210048-01			
SO-TC-275B-100522	<50	<250	130
210048-02			
SO-TC-275C-100522	<50	<250	130
210048-03			
Method Blank	<50	<250	126
02-2417 MB			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210048

Date Extracted: 10/05/22

Date Analyzed: 10/05/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-275A-100522 210048-01	9.3
SO-TC-275B-100522 210048-02	9.2
SO-TC-275C-100522 210048-03	9.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-275A-100522	Client:	PERC
Date Received:	10/05/22	Project:	Superlon Plastics, F&BI 210048
Date Extracted:	10/05/22	Lab ID:	210048-01
Date Analyzed:	10/06/22	Data File:	210048-01.065
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-275B-100522	Client:	PERC
Date Received:	10/05/22	Project:	Superlon Plastics, F&BI 210048
Date Extracted:	10/05/22	Lab ID:	210048-02
Date Analyzed:	10/06/22	Data File:	210048-02.066
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-275C-100522	Client:	PERC
Date Received:	10/05/22	Project:	Superlon Plastics, F&BI 210048
Date Extracted:	10/05/22	Lab ID:	210048-03
Date Analyzed:	10/06/22	Data File:	210048-03.067
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 210048
Date Extracted:	10/05/22	Lab ID:	I2-713 mb
Date Analyzed:	10/06/22	Data File:	I2-713 mb.050
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210048

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 210046-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	96	102	63-146	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	102	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210048

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 210046-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.1	9.1	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 10/05/22

Project: Superlon Plastics, F&BI 210048

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 210045-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	89	87	75-125	2
Lead	mg/L (ppm)	1.0	<1	91	90	75-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	88	80-120
Lead	mg/L (ppm)	1.0	89	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

NP 210048

210048

SAMPLE CHAIN OF CUSTODY

10/05/22

BID

Report To Kenny King
 Company PERC Pacific Environmental Redevelopment Corporation
 Address 8424 E Meadow Lake Drive
 City, State, ZIP Snohomish, WA 98290
 Phone (425) 346-0921 Email KKing@perc-nw.com

SAMPLERS (signature)

PROJECT NAME

PO #

Superlon Plastics

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

Page # of

TURNAROUND TIME

Standard Turnaround

RUSH ASAP

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TC/PC 13/11 As/Pr Only	pH 9045C	NWTPH-HClD	NWTPH-DX	
SO-TC-275A-100522	01	10/5/22	7:10	SOIL	1							✓	✓	✓	✓	
SO-TC-275B-100522	02	10/5/22	7:20	SOIL	1							✓	✓	✓	✓	
SO-TC-275C-100522	03	10/5/22	7:30	SOIL	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Kenny King</u>	<u>Kenny King</u>	<u>PERC</u>	<u>10/5/22</u>	<u>8:33</u>
Received by: <u>Nhan Phan</u>	<u>Nhan Phan</u>	<u>FCBI</u>	<u>10/5/22</u>	<u>1050</u>
Relinquished by:				
Received by:				
		Samples received at <u>2000</u>		



RE: Three data packages for your review and approval

From Keith Johnston <KJohnston@tpchd.org>

Date Mon 10/17/2022 2:21 PM

To kking perc-nw.com <kking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc JEFFREY KING <jking@percnw.com>

Jeff,

I have reviewed the lab data and these soils are acceptable for disposal under WDA 2625R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: kking perc-nw.com <kking@perc-nw.com>

Sent: Saturday, October 15, 2022 7:06 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: JEFFREY KING <jking@percnw.com>

Subject: Three data packages for your review and approval

CAUTION: External Email

Hi Keith,

Attached are three data packages for your review and approval under the permit for the Superlon Plastics site (WDA Permit number 2625R). Each of the samples are from sediment/soil collected in the ditch adjacent to the Superlon Plastics site and represent approximately 23 CY of sediment/soil. Please do not hesitate to ask should you have any questions.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	NWTPH-HCID	NWTPH-Dx	pH	Request
SO-TC-278A-101022	ND	ND	ND	ND	9.2	Asking for approval
SO-TC-278B-101022	ND	ND	ND	130	9	Asking for approval
SO-TC-278C-101022	ND	ND	ND	ND	9.3	Asking for approval
SO-TC-280A-101122	0.342	1.19	ND	ND	8.6	Asking for approval
SO-TC-280B-101122	ND	ND	ND	ND	9.2	Asking for approval
SO-TC-280C-101122	ND	ND	ND	ND	9.1	Asking for approval
SO-TC-281A-101122	ND	ND	ND	ND	9.3	Asking for approval
SO-TC-281B-101122	ND	ND	ND	ND	9.6	Asking for approval
SO-TC-281C-101122	ND	ND	ND	ND	9.6	Asking for approval

Thanks,
Kenny

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 14, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on October 11, 2022 from the Superlon Plastics, F&BI 210153 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jeff King (PRC), Kim Oliva-Membreno (PRC)
PRC1014R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 11, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
210153 -01	SO-TC-278A-101022
210153 -02	SO-TC-278B-101022
210153 -03	SO-TC-278C-101022

The TCLP extracts of the samples were sent to Fremont Analytical for lead and arsenic analysis. The report will be forwarded upon receipt.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210153

Date Extracted: 10/12/22

Date Analyzed: 10/12/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SO-TC-278A-101022 210153-01	ND	ND	ND	124
SO-TC-278B-101022 210153-02	ND	ND	ND	111
SO-TC-278C-101022 210153-03	ND	ND	ND	106
Method Blank 02-2470 MB	ND	ND	ND	103

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210153

Date Extracted: 10/12/22

Date Analyzed: 10/12/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 56-165)
SO-TC-278A-101022	<50	<250	127
210153-01			
SO-TC-278B-101022	130 x	<250	122
210153-02			
SO-TC-278C-101022	<50	<250	130
210153-03			
Method Blank	<50	<250	121
02-2467 MB2			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210153

Date Extracted: 10/12/22

Date Analyzed: 10/12/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-278A-101022 210153-01	9.2
SO-TC-278B-101022 210153-02	9.0
SO-TC-278C-101022 210153-03	9.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210153

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 210148-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	86	86	73-135	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	84	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210153

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 210151-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.3	9.3	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

210253

SAMPLE CHAIN OF CUSTODY

10/11/22

BI2

Report To Kenny King
 Company PERC Pacific Environmental Redevelopment Corporation
 Address 8424 E Meadow Lake Drive
 City, State, ZIP Snohomish, WA 98291
 Phone (425) 346-0921 Email KKing@perc-nw.com

SAMPLERS (signature)

Page # _____ of _____

PROJECT NAME

PO #

Superlon Plastics

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

TURNAROUND TIME

Standard Turnaround

X RUSH 46h TAT per 4/14/22

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other _____

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TCLP 1311	As/Pb Only	pH 9045C	NWTPH-HCLD		NWTPH-Dx
SO-TC-278A-101022	01	10/10/22	10:10	SOIL	1								✓	✓	✓	✓	
SO-TC-278B-101022	02	10/10/22	10:20	SOIL	1								✓	✓	✓	✓	
SO-TC-278C-101022	03	10/10/22	10:30	SOIL	1								✓	✓	✓	✓	

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

NP

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Kenny King

Kenny King

PERC

10/11/22

15:17

Received by:

Ariel Wright

Ariel Wright

FBI

10/11/22

16:25

Relinquished by:

Received by:

Samples received at 22°C



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 210153
Work Order Number: 2210206

October 14, 2022

Attention Michael Erdahl:

Fremont Analytical, Inc. received 3 sample(s) on 10/13/2022 for the analyses presented in the following report.

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com



Date: 10/14/2022

CLIENT: Friedman & Bruya
Project: 210153
Work Order: 2210206

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2210206-001	SO-TC-278A-101022	10/10/2022 10:10 AM	10/13/2022 9:57 AM
2210206-002	SO-TC-278B-101022	10/10/2022 10:20 AM	10/13/2022 9:57 AM
2210206-003	SO-TC-278C-101022	10/10/2022 10:30 AM	10/13/2022 9:57 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned



Case Narrative

WO#: 2210206

Date: 10/14/2022

CLIENT: Friedman & Bruya
Project: 210153

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2210206
Date Reported: 10/14/2022

Client: Friedman & Bruya

Collection Date: 10/10/2022 10:10:00 AM

Project: 210153

Lab ID: 2210206-001

Matrix: Extract

Client Sample ID: SO-TC-278A-101022

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38137

Analyst: EH

Arsenic	ND	0.100		mg/L	1	10/14/2022 3:27:19 PM
Lead	ND	0.200		mg/L	1	10/14/2022 3:27:19 PM



Analytical Report

Work Order: 2210206
Date Reported: 10/14/2022

Client: Friedman & Bruya

Collection Date: 10/10/2022 10:20:00 AM

Project: 210153

Lab ID: 2210206-002

Matrix: Extract

Client Sample ID: SO-TC-278B-101022

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38137

Analyst: EH

Arsenic	ND	0.100		mg/L	1	10/14/2022 3:30:02 PM
Lead	ND	0.200		mg/L	1	10/14/2022 3:30:02 PM



Analytical Report

Work Order: 2210206

Date Reported: 10/14/2022

Client: Friedman & Bruya

Collection Date: 10/10/2022 10:30:00 AM

Project: 210153

Lab ID: 2210206-003

Matrix: Extract

Client Sample ID: SO-TC-278C-101022

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38137

Analyst: EH

Arsenic	ND	0.100		mg/L	1	10/14/2022 3:32:46 PM
Lead	ND	0.200		mg/L	1	10/14/2022 3:32:46 PM

Work Order: 2210206
CLIENT: Friedman & Bruya
Project: 210153

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: MB2-38137		SampType: MBLK			Units: mg/L		Prep Date: 10/13/2022			RunNo: 79038		
Client ID: MBLKS		Batch ID: 38137			Analysis Date: 10/14/2022					SeqNo: 1627552		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100									
Lead	ND	0.200									

Sample ID: MB-38137		SampType: MBLK			Units: mg/L		Prep Date: 10/13/2022			RunNo: 79038		
Client ID: MBLKS		Batch ID: 38137			Analysis Date: 10/14/2022					SeqNo: 1627553		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100									
Lead	ND	0.200									

Sample ID: LCS-38137		SampType: LCS			Units: mg/L		Prep Date: 10/13/2022			RunNo: 79038		
Client ID: LCSS		Batch ID: 38137						Analysis Date: 10/14/2022			SeqNo: 1627554	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.08	0.100	5.000	0	102	65	135				
Lead	2.55	0.200	2.500	0	102	65	135				

Sample ID: 2210208-001ADUP		SampType: DUP			Units: mg/L		Prep Date: 10/13/2022			RunNo: 79038		
Client ID: BATCH		Batch ID: 38137						Analysis Date: 10/14/2022			SeqNo: 1627556	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100						0		30	
Lead	ND	0.200						0		30	

Sample ID: 2210208-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/13/2022			RunNo: 79038		
Client ID: BATCH		Batch ID: 38137			Analysis Date: 10/14/2022					SeqNo: 1627557		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.14	0.100	5.000	0.01472	102	65	135				
Lead	2.56	0.200	2.500	0.001710	102	65	135				

Work Order: 2210206
CLIENT: Friedman & Bruya
Project: 210153

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: 2210208-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/13/2022			RunNo: 79038		
Client ID: BATCH		Batch ID: 38137			Analysis Date: 10/14/2022					SeqNo: 1627557		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Sample ID: 2210208-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 10/13/2022			RunNo: 79038		
Client ID: BATCH		Batch ID: 38137			Analysis Date: 10/14/2022				SeqNo: 1627558			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Arsenic	5.08	0.100	5.000	0.01472	101	65	135	5.137	1.16	30		
Lead	2.50	0.200	2.500	0.001710	99.9	65	135	2.560	2.42	30		

Sample ID: 2210209-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/13/2022		RunNo: 79038		
Client ID: BATCH		Batch ID: 38137			Analysis Date: 10/14/2022				SeqNo: 1627570		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.04	0.100	5.000	0	101	65	135				
Lead	2.64	0.200	2.500	0.09387	102	65	135				

Client Name: **FB**
 Logged by: **Clare Griggs**

Work Order Number: **2210206**
 Date Received: **10/13/2022 9:57:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
 4. Shipping container/cooler in good condition? Yes ☒ No ☐
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 7. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 8. Sample(s) in proper container(s)? Yes ☒ No ☐
 9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 10. Are samples properly preserved? Yes ☒ No ☐
 11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 14. Does paperwork match bottle labels? Yes ☒ No ☐
 15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 16. Is it clear what analyses were requested? Yes ☒ No ☐
 17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
 By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
 Regarding:
 Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	2.4

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2210206

Phone # (206) 285-8282 merdahl@friedmanandbruya.com

SUBCONTRACTOR Fremont	
PROJECT NAME/NO. 210153	PO # C-400
REMARKS	

Page # _____ of _____

TURNAROUND TIME

☐ Standard TAT

☒ RUSH 24hr.

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days

☐ Return samples

☐ Will call with instructions

[illegible]

Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Michael Erdahl	Friedman & Bruya	10/12/22	0800
Received by: 	Katherine Porter	FAI	6:13 PM 10/13/22	9:57
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 14, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on October 11, 2022 from the Superlon Plastics, F&BI 210152 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jeff King (PRC), Kim Oliva-Membreno (PRC)
PRC1014R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 11, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 210152 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
210152 -01	SO-TC-280A-101122
210152 -02	SO-TC-280B-101122
210152 -03	SO-TC-280C-101122

The TCLP extracts of the samples were sent to Fremont Analytical for lead and arsenic analysis. The report will be forwarded upon receipt.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210152

Date Extracted: 10/12/22

Date Analyzed: 10/12/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SO-TC-280A-101122 210152-01	ND	ND	ND	113
SO-TC-280B-101122 210152-02	ND	ND	ND	113
SO-TC-280C-101122 210152-03	ND	ND	ND	112
Method Blank 02-2470 MB	ND	ND	ND	103

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210152

Date Extracted: 10/12/22

Date Analyzed: 10/12/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 56-165)
SO-TC-280A-101122	<50	<250	131
210152-01			
SO-TC-280B-101122	<50	<250	125
210152-02			
SO-TC-280C-101122	<50	<250	115
210152-03			
Method Blank	<50	<250	121
02-2467 MB2			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210152

Date Extracted: 10/12/22

Date Analyzed: 10/12/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-280A-101122 210152-01	8.6
SO-TC-280B-101122 210152-02	9.2
SO-TC-280C-101122 210152-03	9.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210152

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 210148-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	86	86	73-135	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	84	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210152

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 210151-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.3	9.3	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

(NP) 210152

210152

SAMPLE CHAIN OF CUSTODY

10/11/22

BI2

Report To Kenny King
 Company PERC Pacific Environmental
 Address 8424 E Meadow Lake Drive
 City, State, ZIP Shobomush, WA 98290
 Phone (425) 346-0921 Email KKing@perc-nw.com

SAMPLERS (signature)

Page # _____ of _____

PROJECT NAME

PO #

Superlon Plastics

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

TURNAROUND TIME

Standard Turnaround

X RUSH 96 hr TAT not 10/13/22
 Rush charges authorized by: NE

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other _____

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-DX	NWTPH-GX	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TCUP 1311 As/Pb Only	pH 9045C	NWTPH-HUD	NWTPH-DX	
SO-TC-280A-10/11/22	01	10/11/22	8:30	SOIL	1							✓	✓	✓	✓	
SO-TC-280B-10/11/22	02	10/11/22	8:40	SOIL	1							✓	✓	✓	✓	
SO-TC-280C-10/11/22	03	10/11/22	8:50	SOIL	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by:

Received by:

Kenny King
Ann Wright

Kenny King
 Ann Wright

PERC
 VBI

10/11/22 15:17
 10/11/22 16:30

Samples received at 22°C



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 210152
Work Order Number: 2210207

October 14, 2022

Attention Michael Erdahl:

Fremont Analytical, Inc. received 3 sample(s) on 10/13/2022 for the analyses presented in the following report.

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com



Date: 10/14/2022

CLIENT: Friedman & Bruya
Project: 210152
Work Order: 2210207

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2210207-001	SO-TC-280A-101122	10/11/2022 8:30 AM	10/13/2022 9:57 AM
2210207-002	SO-TC-280B-101122	10/11/2022 8:40 AM	10/13/2022 9:57 AM
2210207-003	SO-TC-280C-101122	10/11/2022 8:50 AM	10/13/2022 9:57 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned



Case Narrative

WO#: 2210207

Date: 10/14/2022

CLIENT: Friedman & Bruya

Project: 210152

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2210207
Date Reported: 10/14/2022

Client: Friedman & Bruya

Collection Date: 10/11/2022 8:30:00 AM

Project: 210152

Lab ID: 2210207-001

Matrix: Extract

Client Sample ID: SO-TC-280A-101122

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38137

Analyst: EH

Arsenic	0.342	0.100		mg/L	1	10/14/2022 3:40:58 PM
Lead	1.19	0.200		mg/L	1	10/14/2022 3:40:58 PM



Analytical Report

Work Order: 2210207
Date Reported: 10/14/2022

Client: Friedman & Bruya

Collection Date: 10/11/2022 8:40:00 AM

Project: 210152

Lab ID: 2210207-002

Matrix: Extract

Client Sample ID: SO-TC-280B-101122

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38137

Analyst: EH

Arsenic	ND	0.100		mg/L	1	10/14/2022 3:43:41 PM
Lead	ND	0.200		mg/L	1	10/14/2022 3:43:41 PM



Analytical Report

Work Order: 2210207
Date Reported: 10/14/2022

Client: Friedman & Bruya

Collection Date: 10/11/2022 8:50:00 AM

Project: 210152

Lab ID: 2210207-003

Matrix: Extract

Client Sample ID: SO-TC-280C-101122

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38137

Analyst: EH

Arsenic	ND	0.100		mg/L	1	10/14/2022 3:46:25 PM
Lead	ND	0.200		mg/L	1	10/14/2022 3:46:25 PM

Work Order: 2210207
CLIENT: Friedman & Bruya
Project: 210152

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: MB2-38137		SampType: MBLK			Units: mg/L		Prep Date: 10/13/2022			RunNo: 79038		
Client ID: MBLKS		Batch ID: 38137			Analysis Date: 10/14/2022					SeqNo: 1627552		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100									
Lead	ND	0.200									

Sample ID: MB-38137		SampType: MBLK		Units: mg/L		Prep Date: 10/13/2022			RunNo: 79038			
Client ID: MBLKS		Batch ID: 38137					Analysis Date: 10/14/2022			SeqNo: 1627553		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100									
Lead	ND	0.200									

Sample ID: LCS-38137		SampType: LCS			Units: mg/L		Prep Date: 10/13/2022			RunNo: 79038		
Client ID: LCSS		Batch ID: 38137			Analysis Date: 10/14/2022					SeqNo: 1627554		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.08	0.100	5.000	0	102	65	135				
Lead	2.55	0.200	2.500	0	102	65	135				

Sample ID: 2210208-001ADUP		SampType: DUP			Units: mg/L		Prep Date: 10/13/2022			RunNo: 79038		
Client ID: BATCH		Batch ID: 38137			Analysis Date: 10/14/2022					SeqNo: 1627556		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100						0		30	
Lead	ND	0.200						0		30	

Sample ID: 2210208-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/13/2022			RunNo: 79038		
Client ID: BATCH		Batch ID: 38137			Analysis Date: 10/14/2022					SeqNo: 1627557		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.14	0.100	5.000	0.01472	102	65	135				
Lead	2.56	0.200	2.500	0.001710	102	65	135				

Work Order: 2210207
CLIENT: Friedman & Bruya
Project: 210152

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: 2210208-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/13/2022			RunNo: 79038		
Client ID: BATCH		Batch ID: 38137			Analysis Date: 10/14/2022					SeqNo: 1627557		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Sample ID: 2210208-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 10/13/2022			RunNo: 79038		
Client ID: BATCH		Batch ID: 38137			Analysis Date: 10/14/2022				SeqNo: 1627558			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Arsenic	5.08	0.100	5.000	0.01472	101	65	135	5.137	1.16	30		
Lead	2.50	0.200	2.500	0.001710	99.9	65	135	2.560	2.42	30		

Sample ID: 2210209-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/13/2022		RunNo: 79038		
Client ID: BATCH		Batch ID: 38137			Analysis Date: 10/14/2022				SeqNo: 1627570		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.04	0.100	5.000	0	101	65	135				
Lead	2.64	0.200	2.500	0.09387	102	65	135				



Sample Log-In Check List

Client Name: **FB**
Logged by: **Clare Griggs**

Work Order Number: **2210207**
Date Received: **10/13/2022 9:57:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
7. Were all items received at a temperature of $>2^{\circ}\text{C}$ to 6°C * Yes ☒ No ☐ NA ☐
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp $^{\circ}\text{C}$
Sample	2.4

* Note: DoD/ELAP and TNI require items to be received at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$

2210207

SUBCONTRACTOR Fremont	
PROJECT NAME/NO. 210152	PO # C-400
REMARKS	

Page # _____ of _____

TURNAROUND TIME

☐ Standard TAT

☒ **RUSH 24 hr**

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days

☐ Return samples

☐ Will call with instructions

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 merdahl@friedmanandbruya.com

[illegible]

Fax (206) 283-5044

Page 11 of 11

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 14, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on October 11, 2022 from the Superlon Plastics, F&BI 210151 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jeff King (PRC), Kim Oliva-Membreno (PRC)
PRC1014R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 11, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
210151 -01	SO-TC-281A-101122
210151 -02	SO-TC-281B-101122
210151 -03	SO-TC-281C-101122

The TCLP extracts of the samples were sent to Fremont Analytical for lead and arsenic analysis. The report will be forwarded upon receipt.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210151

Date Extracted: 10/12/22

Date Analyzed: 10/12/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SO-TC-281A-101122 210151-01	ND	ND	ND	125
SO-TC-281B-101122 210151-02	ND	ND	ND	126
SO-TC-281C-101122 210151-03	ND	ND	ND	110
Method Blank 02-2470 MB	ND	ND	ND	103

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210151

Date Extracted: 10/12/22

Date Analyzed: 10/12/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 56-165)
SO-TC-281A-101122	<50	<250	129
210151-01			
SO-TC-281B-101122	<50	<250	128
210151-02			
SO-TC-281C-101122	<50	<250	125
210151-03			
Method Blank	<50	<250	121
02-2467 MB2			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210151

Date Extracted: 10/12/22

Date Analyzed: 10/12/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-281A-101122 210151-01	9.3
SO-TC-281B-101122 210151-02	9.6
SO-TC-281C-101122 210151-03	9.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210151

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 210148-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	86	86	73-135	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	84	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210151

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 210151-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.3	9.3	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

10/11/22

AI 2

210151

Report To Kenny King

Company PERC Pacific Environmental
Redevelopment Corporation

Address 8424 E Meadow Lake Drive

City, State, ZIP Snohomish, WA 98290

Phone (425) 246-0921 Email kking@perc-nw.com

SAMPLERS (signature)

PROJECT NAME

PO #

Superlon Plastics

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

Page # of

TURNAROUND TIME

Standard Turnaround

* RUSH 2 Day 7AT mt ME 10/13/22

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days - -

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TCDF 1311 As/Pb Only	pH 9045C	NWTPH-HCID	NWTPH-Dx	
SO-TC-281A-101122	01	10/11/22	13:25	SOIL	1							✓	✓	✓	✓	
SO-TC-281B-101122	02	10/11/22	13:35	SOIL	1							✓	✓	✓	✓	
SO-TC-281C-101122	03	10/11/22	13:45	SOIL	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

(NP)

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Kenny King</u>	<u>Kenny King</u>	<u>PERC</u>	<u>10/11/22</u>	<u>15:17</u>
Received by: <u>Arnel Wright</u>	<u>Arnel Wright</u>	<u>FBI</u>	<u>10/11/22</u>	<u>16:25</u>
Relinquished by:				
Received by:				
			Samples received at <u>2200</u>	



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 210151
Work Order Number: 2210208

October 14, 2022

Attention Michael Erdahl:

Fremont Analytical, Inc. received 3 sample(s) on 10/13/2022 for the analyses presented in the following report.

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com



Date: 10/14/2022

CLIENT: Friedman & Bruya
Project: 210151
Work Order: 2210208

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2210208-001	SO-TC-281A-101122	10/11/2022 1:25 PM	10/13/2022 9:57 AM
2210208-002	SO-TC-281B-101122	10/11/2022 1:35 PM	10/13/2022 9:57 AM
2210208-003	SO-TC-281C-101122	10/11/2022 1:45 PM	10/13/2022 9:57 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned



Case Narrative

WO#: 2210208

Date: 10/14/2022

CLIENT: Friedman & Bruya

Project: 210151

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2210208
Date Reported: 10/14/2022

Client: Friedman & Bruya

Collection Date: 10/11/2022 1:25:00 PM

Project: 210151

Lab ID: 2210208-001

Matrix: Extract

Client Sample ID: SO-TC-281A-101122

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38137

Analyst: EH

Arsenic	ND	0.100		mg/L	1	10/14/2022 3:16:24 PM
Lead	ND	0.200		mg/L	1	10/14/2022 3:16:24 PM



Analytical Report

Work Order: 2210208
Date Reported: 10/14/2022

Client: Friedman & Bruya

Collection Date: 10/11/2022 1:35:00 PM

Project: 210151

Lab ID: 2210208-002

Matrix: Extract

Client Sample ID: SO-TC-281B-101122

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38137

Analyst: EH

Arsenic	ND	0.100		mg/L	1	10/14/2022 3:49:08 PM
Lead	ND	0.200		mg/L	1	10/14/2022 3:49:08 PM



Analytical Report

Work Order: 2210208
Date Reported: 10/14/2022

Client: Friedman & Bruya

Collection Date: 10/11/2022 1:45:00 PM

Project: 210151

Lab ID: 2210208-003

Matrix: Extract

Client Sample ID: SO-TC-281C-101122

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38137

Analyst: EH

Arsenic	ND	0.100		mg/L	1	10/14/2022 3:51:52 PM
Lead	ND	0.200		mg/L	1	10/14/2022 3:51:52 PM

Work Order: 2210208
CLIENT: Friedman & Bruya
Project: 210151

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: MB2-38137		SampType: MBLK			Units: mg/L		Prep Date: 10/13/2022			RunNo: 79038		
Client ID: MBLKS		Batch ID: 38137			Analysis Date: 10/14/2022					SeqNo: 1627552		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100									
Lead	ND	0.200									

Sample ID: MB-38137		SampType: MBLK			Units: mg/L		Prep Date: 10/13/2022			RunNo: 79038		
Client ID: MBLKS		Batch ID: 38137			Analysis Date: 10/14/2022					SeqNo: 1627553		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100									
Lead	ND	0.200									

Sample ID: LCS-38137		SampType: LCS			Units: mg/L		Prep Date: 10/13/2022			RunNo: 79038		
Client ID: LCSS		Batch ID: 38137			Analysis Date: 10/14/2022					SeqNo: 1627554		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.08	0.100	5.000	0	102	65	135				
Lead	2.55	0.200	2.500	0	102	65	135				

Sample ID: 2210208-001ADUP		SampType: DUP			Units: mg/L		Prep Date: 10/13/2022			RunNo: 79038		
Client ID: SO-TC-281A-101122		Batch ID: 38137			Analysis Date: 10/14/2022			SeqNo: 1627556				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100						0		30	
Lead	ND	0.200						0		30	

Sample ID: 2210208-001AMS	SampType: MS	Units: mg/L			Prep Date: 10/13/2022			RunNo: 79038			
Client ID: SO-TC-281A-101122	Batch ID: 38137	Analysis Date: 10/14/2022						SeqNo: 1627557			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	5.14	0.100	5.000	0.01472	102	65	135				
Lead	2.56	0.200	2.500	0.001710	102	65	135				

Work Order: 2210208
CLIENT: Friedman & Bruya
Project: 210151

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: 2210208-001AMS	SampType: MS	Units: mg/L		Prep Date: 10/13/2022	RunNo: 79038
Client ID: SO-TC-281A-101122	Batch ID: 38137	Analysis Date: 10/14/2022		SeqNo: 1627557	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sample ID: 2210208-001AMSD	SampType: MSD	Units: mg/L		Prep Date: 10/13/2022	RunNo: 79038
Client ID: SO-TC-281A-101122	Batch ID: 38137	Analysis Date: 10/14/2022		SeqNo: 1627558	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	5.08	0.100	5.000	0.01472	101 65 135 5.137 1.16 30
Lead	2.50	0.200	2.500	0.001710	99.9 65 135 2.560 2.42 30

Sample ID: 2210209-001AMS	SampType: MS	Units: mg/L		Prep Date: 10/13/2022	RunNo: 79038
Client ID: BATCH	Batch ID: 38137	Analysis Date: 10/14/2022		SeqNo: 1627570	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	5.04	0.100	5.000	0	101 65 135
Lead	2.64	0.200	2.500	0.09387	102 65 135

Client Name: **FB**
 Logged by: **Clare Griggs**

Work Order Number: **2210208**
 Date Received: **10/13/2022 9:57:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
 4. Shipping container/cooler in good condition? Yes ☒ No ☐
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 7. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 8. Sample(s) in proper container(s)? Yes ☒ No ☐
 9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 10. Are samples properly preserved? Yes ☒ No ☐
 11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 14. Does paperwork match bottle labels? Yes ☒ No ☐
 15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 16. Is it clear what analyses were requested? Yes ☒ No ☐
 17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
 By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
 Regarding:
 Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	2.4

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2210208

SUBCONTRACTOR Fremont	
PROJECT NAME/NO. 210151	PO # C-400
REMARKS	

Page # 1 of 1

TURNAROUND TIME

□ Standard TAT

~~X~~RUSH 246-

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions[illegible]

Fax (206) 283-5044

SIGNATURE

PRINT NAME _____

COMPANY

DATE _____

TIME

~~Relinquished by~~

Michael Erdahl

Friedman & Bruya

10/12/77	
----------	--

1800

Received by

Katherine Porter

FAI

10/13/12

0.5

Relinquished by:

Received by:



RE: Five data packages for your review and approval

From Keith Johnston <KJohnston@tpchd.org>

Date Thu 10/20/2022 1:18 PM

To 'JEFFREY KING' <jking@percnw.com>; kking perc-nw.com <kking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Hi Jeff,

Thank you for the updated table. I have reviewed the data and these soils are acceptable for disposal under WDA 2625R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@percnw.com>

Sent: Tuesday, October 18, 2022 4:21 PM

To: kking perc-nw.com <kking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Subject: Re: Five data packages for your review and approval

CAUTION: External Email

Well written buddy.

Get [Outlook for iOS](#)

From: kking perc-nw.com <kking@perc-nw.com>

Sent: Tuesday, October 18, 2022 2:41:56 PM

To: EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: JEFFREY KING <jking@percnw.com>

Subject: Re: Five data packages for your review and approval

Hi Keith,

I apologize for the confusion that my email has caused. In the original table I sent, I included the highest value from the NWTPh-Dx test and also the highest value from the HCID test. All of the values from the HCID test were NDs, but we did get additional lower values from the Dx test (on the 276A-C samples only). I have updated the below table which I hope will be less confusing. I apologize for my mistake in my previous email. Please do not hesitate to ask should you have any further questions.

	TCLP (mg/L)		NWTPH-Dx		NWTPH-HCID				
SAMPLE ID	Arsenic Concentration	Lead Concentration	Diesel Range Organics	Motor Oil Range Organics	Gasoline Range Organics	Diesel Range Organics	Motor Oil Range Organics	pH	Request
SO-TC-276A-100522	ND	ND	273	910	ND	ND	ND	9.16	Asking for approval
SO-TC-276B-100522	0.0427	ND	300	974	ND	ND	ND	9.43	Asking for approval
SO-TC-276C-100522	ND	0.0077	125	486	ND	ND	ND	9.3	Asking for approval
SO-TC-277A-100522	ND	ND	ND	ND	ND	ND	ND	9.39	Asking for approval
SO-TC-277B-100522	ND	ND	ND	231	ND	ND	ND	9.54	Asking for approval
SO-TC-277C-100522	0.0226	0.0071	ND	226	ND	ND	ND	9.48	Asking for approval
SO-TC-279A-101022	ND	ND	ND	ND	ND	ND	ND	8.8	Asking for approval
SO-TC-279B-101022	ND	ND	ND	ND	ND	ND	ND	8.9	Asking for approval
SO-TC-279C-101022	ND	ND	ND	ND	ND	ND	ND	8.9	Asking for approval
SO-TC-282A-101122	ND	ND	ND	ND	ND	ND	ND	9.5	Asking for approval
SO-TC-282B-101122	ND	ND	ND	ND	ND	ND	ND	9.6	Asking for approval
SO-TC-282C-101122	ND	ND	ND	ND	ND	ND	ND	9.5	Asking for approval
SO-TC-283A-101222	ND	ND	ND	ND	ND	ND	ND	9.4	Asking for approval
SO-TC-283B-101222	ND	ND	ND	ND	ND	ND	ND	9.2	Asking for approval
SO-TC-283C-101222	ND	ND	ND	ND	ND	ND	ND	9.5	Asking for approval

Thanks,
Kenny

From: EH SolidWaste <EHSolidWaste@tpchd.org>
Sent: Tuesday, October 18, 2022 11:24 AM
To: kking perc-nw.com <kking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc: JEFFREY KING <jking@percnw.com>
Subject: RE: Five data packages for your review and approval

Hi Jeff,

Looking at the table and checking back to the lab data I found that the first sample in the table shows ND for the HCID but the lab data has 273 mg/kg for sample SO-TC-276A-100522.

I didn't check the others but wanted to give you an opportunity to correct the table first. Unless I am missing something and I'm incorrect.

Let me know,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management

Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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[Waste Disposal Authorization](#)

From: kking perc-nw.com <kking@perc-nw.com>

Sent: Monday, October 17, 2022 3:35 PM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: JEFFREY KING <jking@perc-nw.com>

Subject: Five data packages for your review and approval

CAUTION: External Email

Hi Keith,

Attached are five data packages for your review and approval under the permit for the Superlon Plastics site (WDA Permit number 2625R). Each of the samples are from sediment/soil collected in the ditch adjacent to the Superlon Plastics site and represent approximately 23 CY of sediment/soil. Please do not hesitate to ask should you have any questions.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	NWTPH-HCID	NWTPH-Dx	pH	Request
SO-TC-276A-100522	ND	ND	ND	910	9.16	Asking for approval
SO-TC-276B-100522	0.0427	ND	ND	974	9.43	Asking for approval
SO-TC-276C-100522	ND	0.0077	ND	486	9.3	Asking for approval
SO-TC-277A-100522	ND	ND	ND	ND	9.39	Asking for approval
SO-TC-277B-100522	ND	ND	ND	231	9.54	Asking for approval
SO-TC-277C-100522	0.0226	0.0071	ND	226	9.48	Asking for approval
SO-TC-279A-101022	ND	ND	ND	ND	8.8	Asking for approval
SO-TC-279B-101022	ND	ND	ND	ND	8.9	Asking for approval
SO-TC-279C-101022	ND	ND	ND	ND	8.9	Asking for approval
SO-TC-282A-101122	ND	ND	ND	ND	9.5	Asking for approval
SO-TC-282B-101122	ND	ND	ND	ND	9.6	Asking for approval

SO-TC-282C-101122	ND	ND	ND	ND	9.5	Asking for approval
SO-TC-283A-101222	ND	ND	ND	ND	9.4	Asking for approval
SO-TC-283B-101222	ND	ND	ND	ND	9.2	Asking for approval
SO-TC-283C-101222	ND	ND	ND	ND	9.5	Asking for approval

Thanks,

Kenny



Analytical Resources, LLC
Analytical Chemists and Consultants

15 October 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22J0063

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2022.10.15
09:03:51 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22J0063		Turn-around Requested: 3 DAY		Date: 10/5/2022		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 4253460921		Page: 1 of 1					
Client Contact: Kenny King				No. of Coolers: 1 Cooler Temps: 22.50					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: KING		TCLP 1311 As/Pb Only	pH 9045C	NWTPH-H CID	NW-TPH-Dx		
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-276A-100522	10/05/22	10:10	SOIL	1	✓	✓	✓	✓	
SO-TC-276B-100522	10/05/22	10:20	SOIL	1	✓	✓	✓	✓	
SO-TC-276C-100522	10/05/22	10:30	SOIL	1	✓	✓	✓	✓	
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Ronan Miller</i>		Relinquished by: (Signature)	
				Printed Name: Kenny King		Printed Name: Ronan Miller		Printed Name:	
				Company: PERC		Company: ARI		Company:	
				Date & Time: 10/5/22 16:35		Date & Time: 10/1/22 1635		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-276A-100522	22J0063-01	Solid	05-Oct-2022 10:10	05-Oct-2022 16:35
SO-TC-276B-100522	22J0063-02	Solid	05-Oct-2022 10:20	05-Oct-2022 16:35
SO-TC-276C-100522	22J0063-03	Solid	05-Oct-2022 10:30	05-Oct-2022 16:35



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22J0063

Sample receipt

Samples as listed on the preceding page were received 05-Oct-2022 16:35 under ARI work order 22J0063. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits. The matrix spike (MS) percent recoveries were within control limits.

Hydrocarbon Identification (HCID) - WA-Ecology Method NW-HCID



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERL

Project Name: Superior phthalate

COC No(s): 22J0061 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 22J0061

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 16:35

22.5°

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 4708

Cooler Accepted by: [Signature] Date: 10/5/22 Time: 16:35

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: [Signature] Date: 10/5/22 Time: 16:55 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 226 22J0063

Cooler#: _____ Temperature(°C): 22.50

Sample ID	Bottle Count	Bottle Type
sample received		
above 6°C		

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Completed by: RC Date: 10/1/22 Time: 10:55



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

SO-TC-276A-100522
22J0063-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/05/2022 10:10

Instrument: FID3 Analyst: AA

Analyzed: 10/07/2022 19:34

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 22J0063-01 A 01

Preparation Batch: BKJ0118

Sample Size: 10 g (wet)

Dry Weight: 7.02 g

Prepared: 10/06/2022

Final Volume: 10 mL

% Solids: 70.23

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	71.2	273	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	142	910	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	78.3	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

SO-TC-276A-100522
22J0063-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/05/2022 10:10

Instrument: FID3 Analyst: AA

Analyzed: 10/06/2022 15:49

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKJ0119
Prepared: 10/06/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22J0063-01 A 02
Dry Weight: 7.02 g
% Solids: 70.23

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	14	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	36	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	71	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	107	%	
Surrogate: n-Triacontane			50-150 %	104	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

SO-TC-276A-100522
22J0063-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 10/05/2022 10:10

Instrument: ICP2 Analyst: SKD

Analyzed: 10/12/2022 16:09

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22J0063-01 A 04

Preparation Batch: BKJ0270

Sample Size: 25 mL (wet)

Prepared: 10/11/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

SO-TC-276A-100522
22J0063-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/05/2022 10:10

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 10/11/2022 11:52

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22J0063-01 A

Preparation Batch: BKJ0257

Sample Size: 20.1675 g (wet)

Prepared: 10/11/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.16	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

SO-TC-276B-100522
22J0063-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/05/2022 10:20

Instrument: FID3 Analyst: AA

Analyzed: 10/07/2022 19:56

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 22J0063-02 A 01

Preparation Batch: BKJ0118

Sample Size: 10.01 g (wet)

Dry Weight: 5.90 g

Prepared: 10/06/2022

Final Volume: 10 mL

% Solids: 58.97

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	84.7	300	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	169	974	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	81.4	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

SO-TC-276B-100522
22J0063-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/05/2022 10:20

Instrument: FID3 Analyst: AA

Analyzed: 10/06/2022 16:10

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKJ0119
Prepared: 10/06/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22J0063-02 A 02
Dry Weight: 5.90 g
% Solids: 58.97

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	17	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	42	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	85	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	103	%	
Surrogate: n-Triacontane			50-150 %	99.1	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

SO-TC-276B-100522
22J0063-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 10/05/2022 10:20

Instrument: ICP2 Analyst: SKD

Analyzed: 10/12/2022 16:04

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22J0063-02 A 04

Preparation Batch: BKJ0270

Sample Size: 25 mL (wet)

Prepared: 10/11/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0427	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

SO-TC-276B-100522
22J0063-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/05/2022 10:20

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 10/11/2022 11:52

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22J0063-02 A

Preparation Batch: BKJ0257

Sample Size: 20.2366 g (wet)

Prepared: 10/11/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.43	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

SO-TC-276C-100522
22J0063-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/05/2022 10:30

Instrument: FID3 Analyst: AA

Analyzed: 10/07/2022 20:17

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 22J0063-03 A 01

Preparation Batch: BKJ0118

Sample Size: 10.08 g (wet)

Dry Weight: 6.93 g

Prepared: 10/06/2022

Final Volume: 10 mL

% Solids: 68.75

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	72.2	125	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	144	486	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	89.2	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

SO-TC-276C-100522
22J0063-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/05/2022 10:30

Instrument: FID3 Analyst: AA

Analyzed: 10/06/2022 16:31

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKJ0119
Prepared: 10/06/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22J0063-03 A 02
Dry Weight: 6.88 g
% Solids: 68.75

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	36	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	73	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	104	%	
Surrogate: n-Triacontane			50-150 %	100	%	



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8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

SO-TC-276C-100522
22J0063-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 10/05/2022 10:30

Instrument: ICP2 Analyst: SKD

Analyzed: 10/12/2022 16:06

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22J0063-03 A 04

Preparation Batch: BKJ0270

Sample Size: 25 mL (wet)

Prepared: 10/11/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0077	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

SO-TC-276C-100522
22J0063-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/05/2022 10:30

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 10/11/2022 11:52

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22J0063-03 A

Preparation Batch: BKJ0257

Sample Size: 20.1006 g (wet)

Prepared: 10/11/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.30	pH Units	



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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKJ0118 - NWTPH-Dx

Instrument: FID3 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKJ0118-BLK1)										
					Prepared: 06-Oct-2022 Analyzed: 07-Oct-2022 17:49					
Diesel Range Organics (C12-C24)	ND	50.0	mg/kg							U
Motor Oil Range Organics (C24-C38)	ND	100	mg/kg							U
Surrogate: o-Terphenyl	51.7		mg/kg	56.3		92.0	50-150			
LCS (BKJ0118-BS1)										
					Prepared: 06-Oct-2022 Analyzed: 07-Oct-2022 18:10					
Diesel Range Organics (C12-C24)	1520	50.0	mg/kg	1500		102	63-120			
Surrogate: o-Terphenyl	53.6		mg/kg	56.3		95.2	50-150			
LCS Dup (BKJ0118-BSD1)										
					Prepared: 06-Oct-2022 Analyzed: 07-Oct-2022 18:31					
Diesel Range Organics (C12-C24)	1520	50.0	mg/kg	1500		101	63-120	0.42	30	
Surrogate: o-Terphenyl	53.8		mg/kg	56.3		95.6	50-150			



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8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKJ0119 - NWTPH-HCID

Instrument: FID3 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKJ0119-BLK1)		Prepared: 06-Oct-2022 Analyzed: 06-Oct-2022 15:28							
Gasoline Range Organics (Tol-C12)	ND	10	mg/kg						U
Diesel Range Organics (C12-C24)	ND	25	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	50	mg/kg						U
Surrogate: o-Terphenyl	11.5		mg/kg	11.3	102	50-150			
Surrogate: n-Triacontane	11.5		mg/kg	11.3	102	50-150			



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKJ0270 - EPA 6010D

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKJ0270-BLK1)						Prepared: 11-Oct-2022 Analyzed: 12-Oct-2022 16:01					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BKJ0270-DUP1)						Source: 22J0063-01 Prepared: 11-Oct-2022 Analyzed: 12-Oct-2022 16:25					
Arsenic	0.0254	0.0140	0.250	mg/L		ND					J
Lead	0.0106	0.0065	0.100	mg/L		ND					J
Matrix Spike (BKJ0270-MS1)						Source: 22J0063-01 Prepared: 11-Oct-2022 Analyzed: 12-Oct-2022 16:30					
Arsenic	4.10	0.0140	0.250	mg/L	4.00	ND	103	75-125			
Lead	3.85	0.0065	0.100	mg/L	4.00	ND	96.4	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKJ0257 - EPA 9045D

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BKJ0257-BS1)										
					Prepared: 11-Oct-2022 Analyzed: 11-Oct-2022 11:52					
pH	6.95	0.01	0.01	pH Units	7.00	99.3	99.2-100.8			
Duplicate (BKJ0257-DUP1)										
					Source: 22J0063-01 Prepared: 11-Oct-2022 Analyzed: 11-Oct-2022 11:52					
pH	9.28	0.01	0.01	pH Units	9.16			1.30	20	



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Reported:
15-Oct-2022 09:01

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP
NWTPH-Dx in Solid	
Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE
NWTPH-HCID in Solid	
Gasoline Range Organics (Tol-C12)	NELAP,DoD-ELAP,WADOE
Diesel Range Organics (C12-C24)	NELAP,DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C38)	NELAP,DoD-ELAP,WADOE



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Project: Superlon Plastics
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Reported:
15-Oct-2022 09:01

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:01

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

15 October 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22J0064

Associated SDG ID(s)
N/A

**Shelly
Fishel**

Digitally signed by
Shelly Fishel
Date: 2022.10.15
09:12:09 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: N-226 22J0064		Turn-around Requested: 3 DAY		Date: 10/5/2022		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC		Phone: 4253460921		Page: 1 of 1							
Client Contact: Kenny King				No. of Coolers: 1 Cooler Temps: 22.50							
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments			
Client Project #: SLON		Samplers: KING		TCLP 1311 As/Pb Only	pH 9045C	NWTPH-H CID	NW-TPH-Dx				
Sample ID	Date	Time	Matrix	No. Containers							
SO-TC-277A-100522	10/05/22	14:10	SOIL	1	✓	✓	✓	✓			
SO-TC-277B-100522	10/05/22	14:20	SOIL	1	✓	✓	✓	✓			
SO-TC-277C-100522	10/05/22	14:30	SOIL	1	✓	✓	✓	✓			
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Ronan Miller</i>		Relinquished by: (Signature)		Received by: (Signature)	
				Printed Name: Kenny King		Printed Name: Ronan Miller		Printed Name:		Printed Name:	
				Company: PERC		Company: ARI		Company:		Company:	
				Date & Time: 10/5/22 16:35		Date & Time: 10/5/22 16:35		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-277A-100522	22J0064-01	Solid	05-Oct-2022 14:10	05-Oct-2022 16:35
SO-TC-277B-100522	22J0064-02	Solid	05-Oct-2022 14:20	05-Oct-2022 16:35
SO-TC-277C-100522	22J0064-03	Solid	05-Oct-2022 14:30	05-Oct-2022 16:35



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22J0064

Sample receipt

Samples as listed on the preceding page were received 05-Oct-2022 16:35 under ARI work order 22J0064. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Hydrocarbon Identification (HCID) - WA-Ecology Method NW-HCID

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS) percent recoveries were within control limits.

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.

TCLP Metals



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): 22J0064 NA
Assigned ARI Job No: 22J0064

Project Name: Superior phreatic
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA
Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1635 22.5°
If cooler temperature is out of compliance fill out form 00070F
Cooler Accepted by: NA Date: 10/5/22 Temp Gun ID#: 9708
Time: 1635

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? ... NA YES NO
How were bottles sealed in plastic bags? ... Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? ... YES NO
Were all bottle labels complete and legible? ... YES NO
Did the number of containers listed on COC match with the number of containers received? ... YES NO
Did all bottle labels and tags agree with custody papers? ... YES NO
Were all bottles used correct for the requested analyses? ... YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? ... NA YES NO
Was sufficient amount of sample sent in each bottle? ... YES NO
Date VOC Trip Blank was made at ARI... NA
Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

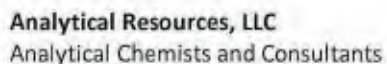
Samples Logged by: NA Date: 10/5/22 Time: 1706 Labels checked by:

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

Completed by: K ✓ Date: 16/5/22 Time: 16:55

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

SO-TC-277A-100522
22J0064-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/05/2022 14:10

Instrument: FID3 Analyst: AA

Analyzed: 10/07/2022 20:38

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave)
Preparation Batch: BKJ0118
Prepared: 10/06/2022

Sample Size: 10.07 g (wet)
Final Volume: 10 mL

Extract ID: 22J0064-01 A 01
Dry Weight: 7.30 g
% Solids: 72.52

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	68.5	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	137	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	69.2	%	



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Project: Superlon Plastics
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Reported:
15-Oct-2022 09:11

SO-TC-277A-100522
22J0064-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/05/2022 14:10

Instrument: FID3 Analyst: AA

Analyzed: 10/06/2022 16:52

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKJ0119
Prepared: 10/06/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22J0064-01 A 02
Dry Weight: 7.25 g
% Solids: 72.52

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	14	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	34	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	69	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	103	%	
Surrogate: n-Triacontane			50-150 %	98.2	%	



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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

SO-TC-277A-100522
22J0064-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 10/05/2022 14:10

Instrument: ICP2 Analyst: SKD

Analyzed: 10/12/2022 16:09

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22J0064-01 A 04

Preparation Batch: BKJ0270

Sample Size: 25 mL (wet)

Prepared: 10/11/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

SO-TC-277A-100522
22J0064-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/05/2022 14:10

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 10/11/2022 11:52

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22J0064-01 A

Preparation Batch: BKJ0257

Sample Size: 20.0635 g (wet)

Prepared: 10/11/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.39	pH Units	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

SO-TC-277B-100522
22J0064-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/05/2022 14:20

Instrument: FID3 Analyst: AA

Analyzed: 10/07/2022 20:59

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave)
Preparation Batch: BKJ0118
Prepared: 10/06/2022

Sample Size: 10 g (wet)
Final Volume: 10 mL

Extract ID: 22J0064-02 A 01
Dry Weight: 6.88 g
% Solids: 68.79

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	72.7	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	145	231	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	75.7	%	



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Project: Superlon Plastics
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Reported:
15-Oct-2022 09:11

SO-TC-277B-100522
22J0064-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/05/2022 14:20

Instrument: FID3 Analyst: AA

Analyzed: 10/06/2022 17:14

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKJ0119
Prepared: 10/06/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22J0064-02 A 02
Dry Weight: 6.88 g
% Solids: 68.79

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	36	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	73	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	104	%	
Surrogate: n-Triacontane			50-150 %	97.8	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

SO-TC-277B-100522
22J0064-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 10/05/2022 14:20

Instrument: ICP2 Analyst: SKD

Analyzed: 10/12/2022 16:12

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22J0064-02 A 04

Preparation Batch: BKJ0270

Sample Size: 25 mL (wet)

Prepared: 10/11/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

SO-TC-277B-100522
22J0064-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/05/2022 14:20

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 10/11/2022 11:52

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22J0064-02 A

Preparation Batch: BKJ0257

Sample Size: 20.207 g (wet)

Prepared: 10/11/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.54	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

SO-TC-277C-100522
22J0064-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/05/2022 14:30

Instrument: FID3 Analyst: AA

Analyzed: 10/07/2022 21:20

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave)
Preparation Batch: BKJ0118
Prepared: 10/06/2022

Sample Size: 10 g (wet)
Final Volume: 10 mL

Extract ID: 22J0064-03 A 01
Dry Weight: 6.66 g
% Solids: 66.58

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	75.1	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	150	226	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	86.1	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

SO-TC-277C-100522
22J0064-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/05/2022 14:30

Instrument: FID3 Analyst: AA

Analyzed: 10/06/2022 17:35

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKJ0119
Prepared: 10/06/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22J0064-03 A 02
Dry Weight: 6.66 g
% Solids: 66.58

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	38	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	75	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	107	%	
Surrogate: n-Triacontane			50-150 %	105	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

SO-TC-277C-100522
22J0064-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 10/05/2022 14:30

Instrument: ICP2 Analyst: SKD

Analyzed: 10/12/2022 16:15

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22J0064-03 A 04

Preparation Batch: BKJ0270

Sample Size: 25 mL (wet)

Prepared: 10/11/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0226	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0071	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

SO-TC-277C-100522
22J0064-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/05/2022 14:30

Instrument: Accumet AB150 Analyst: DOE

Analyzed: 10/11/2022 11:52

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22J0064-03 A

Preparation Batch: BKJ0257

Sample Size: 20.3812 g (wet)

Prepared: 10/11/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.48	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKJ0118 - NWTPH-Dx

Instrument: FID3 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKJ0118-BLK1) Prepared: 06-Oct-2022 Analyzed: 07-Oct-2022 17:49										
Diesel Range Organics (C12-C24)	ND	50.0	mg/kg							U
Motor Oil Range Organics (C24-C38)	ND	100	mg/kg							U
Surrogate: o-Terphenyl	51.7		mg/kg	56.3		92.0	50-150			
LCS (BKJ0118-BS1) Prepared: 06-Oct-2022 Analyzed: 07-Oct-2022 18:10										
Diesel Range Organics (C12-C24)	1520	50.0	mg/kg	1500		102	63-120			
Surrogate: o-Terphenyl	53.6		mg/kg	56.3		95.2	50-150			
LCS Dup (BKJ0118-BSD1) Prepared: 06-Oct-2022 Analyzed: 07-Oct-2022 18:31										
Diesel Range Organics (C12-C24)	1520	50.0	mg/kg	1500		101	63-120	0.42	30	
Surrogate: o-Terphenyl	53.8		mg/kg	56.3		95.6	50-150			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKJ0119 - NWTPH-HCID

Instrument: FID3 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKJ0119-BLK1)		Prepared: 06-Oct-2022 Analyzed: 06-Oct-2022 15:28							
Gasoline Range Organics (Tol-C12)	ND	10	mg/kg						U
Diesel Range Organics (C12-C24)	ND	25	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	50	mg/kg						U
Surrogate: o-Terphenyl	11.5		mg/kg	11.3	102	50-150			
Surrogate: n-Triacontane	11.5		mg/kg	11.3	102	50-150			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKJ0270 - EPA 6010D

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKJ0270-BLK1)						Prepared: 11-Oct-2022 Analyzed: 12-Oct-2022 16:01				
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKJ0257 - EPA 9045D

Instrument: Accumet AB150 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BKJ0257-BS1)									
Prepared: 11-Oct-2022 Analyzed: 11-Oct-2022 11:52									
pH	6.95	0.01	0.01	pH Units	7.00	99.3	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP
NWTPH-Dx in Solid	
Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE
NWTPH-HCID in Solid	
Gasoline Range Organics (Tol-C12)	NELAP,DoD-ELAP,WADOE
Diesel Range Organics (C12-C24)	NELAP,DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C38)	NELAP,DoD-ELAP,WADOE



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-Oct-2022 09:11

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 14, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on October 11, 2022 from the Superlon Plastics, F&BI 210154 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jeff King (PRC), Kim Oliva-Membreno (PRC)
PRC1014R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 11, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 210154 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
210154 -01	SO-TC-279A-101022
210154 -02	SO-TC-279B-101022
210154 -03	SO-TC-279C-101022

The TCLP extracts of the samples were sent to Fremont Analytical for lead and arsenic analysis. The report will be forwarded upon receipt.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210154

Date Extracted: 10/12/22

Date Analyzed: 10/12/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SO-TC-279A-101022 210154-01	ND	ND	ND	110
SO-TC-279B-101022 210154-02	ND	ND	ND	109
SO-TC-279C-101022 210154-03	ND	ND	ND	109
Method Blank 02-2470 MB	ND	ND	ND	103

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210154

Date Extracted: 10/12/22

Date Analyzed: 10/12/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 56-165)
SO-TC-279A-101022	<50	<250	125
210154-01			
SO-TC-279B-101022	<50	<250	127
210154-02			
SO-TC-279C-101022	<50	<250	127
210154-03			
Method Blank	<50	<250	121
02-2467 MB2			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210154

Date Extracted: 10/12/22

Date Analyzed: 10/12/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-279A-101022 210154-01	8.8
SO-TC-279B-101022 210154-02	8.9
SO-TC-279C-101022 210154-03	8.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210154

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 210148-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	86	86	73-135	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	84	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/22

Date Received: 10/11/22

Project: Superlon Plastics, F&BI 210154

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 210151-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.3	9.3	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

10/11/22

BT2

210154
Report To Kenny King
Company PERC Pacific Environmental Redevelopment Corporation
Address 8424 E Meadow Lake Drive
City, State, ZIP Snohomish, WA 98290
Phone (425) 346-0921 Email KKing@perc-nw.com

SAMPLERS (signature)

PROJECT NAME

PO #

Superlon Plastics

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

Page # of

TURNAROUND TIME

Standard Turnaround

RUSH 4th day not as 10/13/22
Rush charges authorized by: NE

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TCDF 1511	As/Pb Only	pH 9045C	NWTPH-HCID	
SO-TC-279A-101022	01	10/10/22	14:20	SOIL	1							✓	✓	✓	✓	
SO-TC-279B-101022	02	10/10/22	14:30	SOIL	1							✓	✓	✓	✓	
SO-TC-279C-101022	03	10/10/22	14:40	SOIL	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Kenny King</u>	<u>Kenny King</u>	<u>PERC</u>	<u>10/11/22</u>	<u>15:17</u>
Received by: <u>HONG NGUYEN</u>	<u>HONG NGUYEN</u>	<u>FBF</u>	<u>10/11/22</u>	<u>16:30</u>
Relinquished by:				
Received by:				

Samples received at 2200



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 210154
Work Order Number: 2210205

October 17, 2022

Attention Michael Erdahl:

Fremont Analytical, Inc. received 3 sample(s) on 10/13/2022 for the analyses presented in the following report.

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

CC:
Jeffery King
Kenny King

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com



Date: 10/17/2022

CLIENT: Friedman & Bruya
Project: 210154
Work Order: 2210205

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2210205-001	SO-TC-279A-101022	10/10/2022 2:20 PM	10/13/2022 9:57 AM
2210205-002	SO-TC-279B-101022	10/10/2022 2:30 PM	10/13/2022 9:57 AM
2210205-003	SO-TC-279C-101022	10/10/2022 2:40 PM	10/13/2022 9:57 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya**Project:** 210154

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2210205

Date Reported: 10/17/2022

CLIENT: Friedman & Bruya

Project: 210154

Lab ID: 2210205-001

Client Sample ID: SO-TC-279A-101022

Collection Date: 10/10/2022 2:20:00 PM

Matrix: Extract

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38157

Analyst: EH

Arsenic	ND	0.100		mg/L	1	10/17/2022 1:17:10 PM
Cadmium	ND	0.200		mg/L	1	10/17/2022 1:17:10 PM
Chromium	ND	0.100		mg/L	1	10/17/2022 1:17:10 PM
Lead	ND	0.200		mg/L	1	10/17/2022 1:17:10 PM

Lab ID: 2210205-002

Client Sample ID: SO-TC-279B-101022

Collection Date: 10/10/2022 2:30:00 PM

Matrix: Extract

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38157

Analyst: EH

Arsenic	ND	0.100		mg/L	1	10/17/2022 1:19:54 PM
Cadmium	ND	0.200		mg/L	1	10/17/2022 1:19:54 PM
Chromium	ND	0.100		mg/L	1	10/17/2022 1:19:54 PM
Lead	ND	0.200		mg/L	1	10/17/2022 1:19:54 PM

Lab ID: 2210205-003

Client Sample ID: SO-TC-279C-101022

Collection Date: 10/10/2022 2:40:00 PM

Matrix: Extract

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38157

Analyst: EH

Arsenic	ND	0.100		mg/L	1	10/17/2022 1:22:37 PM
Cadmium	ND	0.200		mg/L	1	10/17/2022 1:22:37 PM
Chromium	ND	0.100		mg/L	1	10/17/2022 1:22:37 PM
Lead	ND	0.200		mg/L	1	10/17/2022 1:22:37 PM

Work Order: 2210205
CLIENT: Friedman & Bruya
Project: 210154

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: MB-38157		SampType: MBLK			Units: mg/L		Prep Date: 10/17/2022			RunNo: 79072		
Client ID: MBLKS		Batch ID: 38157			Analysis Date: 10/17/2022					SeqNo: 1628114		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100
Cadmium	ND	0.200
Chromium	ND	0.100
Lead	ND	0.200

Sample ID: LCS-38157		SampType: LCS			Units: mg/L		Prep Date: 10/17/2022			RunNo: 79072		
Client ID: LCSS		Batch ID: 38157			Analysis Date: 10/17/2022					SeqNo: 1628115		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.11	0.100	5.000	0	102	65	135
Cadmium	0.257	0.200	0.2500	0	103	65	135
Chromium	4.65	0.100	5.000	0	92.9	65	135
Lead	2.52	0.200	2.500	0	101	65	135

Sample ID: 2210228-001ADUP		SampType: DUP			Units: mg/L		Prep Date: 10/17/2022			RunNo: 79072		
Client ID: BATCH		Batch ID: 38157			Analysis Date: 10/17/2022					SeqNo: 1628117		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100						0		30
Cadmium	ND	0.200						0		30
Chromium	ND	0.100						0		30
Lead	ND	0.200						0		30

Sample ID: 2210228-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/17/2022			RunNo: 79072		
Client ID: BATCH		Batch ID: 38157			Analysis Date: 10/17/2022					SeqNo: 1628118		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.29	0.100	5.000	0.03150	105	65	135
Cadmium	0.260	0.200	0.2500	0.0002250	104	65	135
Chromium	4.90	0.100	5.000	0	97.9	65	135

Work Order: 2210205
CLIENT: Friedman & Bruya
Project: 210154

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: 2210228-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/17/2022			RunNo: 79072		
Client ID: BATCH		Batch ID: 38157			Analysis Date: 10/17/2022					SeqNo: 1628118		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Lead	2.54	0.200	2.500	0	101	65	135				
------	------	-------	-------	---	-----	----	-----	--	--	--	--

Sample ID: 2210228-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 10/17/2022			RunNo: 79072		
Client ID: BATCH		Batch ID: 38157			Analysis Date: 10/17/2022					SeqNo: 1628119		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.36	0.100	5.000	0.03150	107	65	135	5.288	1.35	30	
Cadmium	0.262	0.200	0.2500	0.0002250	105	65	135	0.2601	0.835	30	
Chromium	4.89	0.100	5.000	0	97.8	65	135	4.896	0.115	30	
Lead	2.57	0.200	2.500	0	103	65	135	2.536	1.37	30	

Sample ID: MB2-38157		SampType: MBLK			Units: mg/L		Prep Date: 10/17/2022			RunNo: 79072		
Client ID: MBLKS		Batch ID: 38157			Analysis Date: 10/17/2022					SeqNo: 1628130		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100									
Cadmium	ND	0.200									
Chromium	ND	0.100									
Lead	ND	0.200									

Client Name: FB
 Logged by: Gabrielle Coeuille

Work Order Number: 2210205
 Date Received: 10/13/2022 9:57:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
 4. Shipping container/cooler in good condition? Yes ☒ No ☐
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 7. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 8. Sample(s) in proper container(s)? Yes ☒ No ☐
 9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 10. Are samples properly preserved? Yes ☒ No ☐
 11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 14. Does paperwork match bottle labels? Yes ☒ No ☐
 15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 16. Is it clear what analyses were requested? Yes ☒ No ☐
 17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
 By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
 Regarding:
 Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	2.4

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2210205

SUBCONTRACTOR <i>Freemont</i>	
PROJECT NAME/NO. <i>210154</i>	PO # <i>C-400</i>
REMARKS	

Page # 1 of 1

TURNAROUND TIME

☐ Standard TAT
☒ RUSH 24L
Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days

☐ Return samples

☐ Will call with instructions

[illegible]

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Page 9 of 9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 17, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on October 12, 2022 from the Superlon Plastics, F&BI 210175 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jeff King (PRC), Kim Oliva-Membreno (PRC)
PRC1017R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 12, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
210175 -01	SO-TC-282A-101222
210175 -02	SO-TC-282B-101222
210175 -03	SO-TC-282C-101222

The TCLP extracts of the samples were sent to Fremont Analytical for lead and arsenic analysis. The report will be forwarded upon receipt.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/17/22

Date Received: 10/12/22

Project: Superlon Plastics, F&BI 210175

Date Extracted: 10/13/22

Date Analyzed: 10/13/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 56-165)
SO-TC-282A-101222 210175-01	ND	ND	ND	103
SO-TC-282B-101222 210175-02	ND	ND	ND	103
SO-TC-282C-101222 210175-03	ND	ND	ND	112
Method Blank 02-2470 MB2	ND	ND	ND	114

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/17/22

Date Received: 10/12/22

Project: Superlon Plastics, F&BI 210175

Date Extracted: 10/13/22

Date Analyzed: 10/13/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
SO-TC-282A-101222 210175-01	<50	<250	85
SO-TC-282B-101222 210175-02	<50	<250	95
SO-TC-282C-101222 210175-03	<50	<250	95
Method Blank 02-2501 MB2	<50	<250	62

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/17/22

Date Received: 10/12/22

Project: Superlon Plastics, F&BI 210175

Date Extracted: 10/13/22

Date Analyzed: 10/13/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-282A-101222 210175-01	9.5
SO-TC-282B-101222 210175-02	9.6
SO-TC-282C-101222 210175-03	9.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/17/22

Date Received: 10/12/22

Project: Superlon Plastics, F&BI 210175

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 210164-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	92	94	73-135	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	88	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/17/22

Date Received: 10/12/22

Project: Superlon Plastics, F&BI 210175

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 210175-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.5	9.5	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

2/10/75

Report To Kenny KingCompany PERC Pacific Environmental
Redevelopment CorporationAddress 8424 E Meadow Lake DriveCity, State, ZIP Shohamish, WA 98290Phone (425)346-0921 Email kking@perc-nw.com

SAMPLE CHAIN OF CUSTODY

10-12-22

BT2

SAMPLERS (signature)

PROJECT NAME

Superlon Plastics

PO #

REMARKS

Project Specific RLs - Yes / No

INVOICE TO

Page # of

TURNAROUND TIME

Standard Turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TCUP 13H AsIPb Only	pH 9045C	NWTPH-HCUD	NWTPH-Dx	
SO-TC-282A-101222	01	10/12/22	7:40	SOIL	1							✓	✓	✓	✓	
SO-TC-282B-101222	02	10/12/22	7:50	SOIL	1							✓	✓	✓	✓	
SO-TC-282C-101222	03	10/12/22	8:00	SOIL	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Kenny King</u>	<u>Kenny King</u>	<u>PERC</u>	<u>10/12/22</u>	<u>13:17</u>
Received by: <u>[Signature]</u>	<u>WUT TRUONG</u>	<u>FBI</u>	<u>10/12/22</u>	<u>13:17</u>
Relinquished by:				
Received by:				
		Samples received at <u>23°C</u>		



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 210175
Work Order Number: 2210228

October 17, 2022

Attention Michael Erdahl:

Fremont Analytical, Inc. received 3 sample(s) on 10/14/2022 for the analyses presented in the following report.

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com



Date: 10/17/2022

CLIENT: Friedman & Bruya
Project: 210175
Work Order: 2210228

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2210228-001	SO-TC-282A-101222	10/12/2022 7:40 AM	10/14/2022 9:20 AM
2210228-002	SO-TC-282B-101222	10/12/2022 7:50 AM	10/14/2022 9:20 AM
2210228-003	SO-TC-282C-101222	10/12/2022 8:00 AM	10/14/2022 9:20 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original



Case Narrative

WO#: 2210228

Date: 10/17/2022

CLIENT: Friedman & Bruya

Project: 210175

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
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- J - Analyte detected below Reporting Limit
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- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
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- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
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- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2210228

Date Reported: 10/17/2022

CLIENT: Friedman & Bruya

Project: 210175

Lab ID: 2210228-001

Client Sample ID: SO-TC-282A-101222

Collection Date: 10/12/2022 7:40:00 AM

Matrix: Extract

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38157

Analyst: EH

Arsenic	ND	0.100		mg/L	1	10/17/2022 1:06:17 PM
Lead	ND	0.200		mg/L	1	10/17/2022 1:06:17 PM

Lab ID: 2210228-002

Client Sample ID: SO-TC-282B-101222

Collection Date: 10/12/2022 7:50:00 AM

Matrix: Extract

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38157

Analyst: EH

Arsenic	ND	0.100		mg/L	1	10/17/2022 1:25:20 PM
Lead	ND	0.200		mg/L	1	10/17/2022 1:25:20 PM

Lab ID: 2210228-003

Client Sample ID: SO-TC-282C-101222

Collection Date: 10/12/2022 8:00:00 AM

Matrix: Extract

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38157

Analyst: EH

Arsenic	ND	0.100		mg/L	1	10/17/2022 1:33:32 PM
Lead	ND	0.200		mg/L	1	10/17/2022 1:33:32 PM

Work Order: 2210228
CLIENT: Friedman & Bruya
Project: 210175

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: MB-38157		SampType: MBLK			Units: mg/L		Prep Date: 10/17/2022			RunNo: 79072		
Client ID: MBLKS		Batch ID: 38157			Analysis Date: 10/17/2022					SeqNo: 1628114		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100									
Lead	ND	0.200									

Sample ID: LCS-38157		SampType: LCS			Units: mg/L		Prep Date: 10/17/2022			RunNo: 79072		
Client ID: LCSS		Batch ID: 38157			Analysis Date: 10/17/2022					SeqNo: 1628115		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.11	0.100	5.000	0	102	65	135				
Lead	2.52	0.200	2.500	0	101	65	135				

Sample ID: 2210228-001ADUP		SampType: DUP			Units: mg/L		Prep Date: 10/17/2022			RunNo: 79072		
Client ID: SO-TC-282A-101222		Batch ID: 38157			Analysis Date: 10/17/2022					SeqNo: 1628117		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100						0		30	
Lead	ND	0.200						0		30	

Sample ID: 2210228-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/17/2022			RunNo: 79072		
Client ID: SO-TC-282A-101222		Batch ID: 38157			Analysis Date: 10/17/2022					SeqNo: 1628118		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.29	0.100	5.000	0.03150	105	65	135				
Lead	2.54	0.200	2.500	0	101	65	135				

Sample ID: 2210228-001AMSD	SampType: MSD	Units: mg/L			Prep Date: 10/17/2022			RunNo: 79072			
Client ID: SO-TC-282A-101222	Batch ID: 38157	Analysis Date: 10/17/2022						SeqNo: 1628119			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	5.36	0.100	5.000	0.03150	107	65	135	5.288	1.35	30	
Lead	2.57	0.200	2.500	0	103	65	135	2.536	1.37	30	

Work Order: 2210228
CLIENT: Friedman & Bruya
Project: 210175

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: 2210228-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 10/17/2022			RunNo: 79072		
Client ID: SO-TC-282A-101222		Batch ID: 38157			Analysis Date: 10/17/2022			SeqNo: 1628119				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Sample ID: MB2-38157		SampType: MBLK			Units: mg/L		Prep Date: 10/17/2022			RunNo: 79072		
Client ID: MBLKS		Batch ID: 38157			Analysis Date: 10/17/2022			SeqNo: 1628130				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100
Lead	ND	0.200



Sample Log-In Check List

Client Name: FB

Work Order Number: 2210228

Logged by: Clare Griggs

Date Received: 10/14/2022 9:20:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? UPS

Log In

3. Coolers are present? Yes ☐ No ☒ NA ☐
No cooler present.
4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
7. Were all items received at a temperature of >2°C to 6°C * Yes ☐ No ☐ NA ☒
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.4

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Original

2210228

SUBCONTRACTOR	
Fremont	
PROJECT NAME/NO.	PO #
210175	C-405
REMARKS	

Page # 1 of 1

TURNAROUND TIME

☐ Standard TAT

~~XRUSH~~ 242

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

ANALYSES REQUESTED

[illegible]

Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 17, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on October 12, 2022 from the Superlon Plastics, F&BI 210176 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jeff King (PRC), Kim Oliva-Membreno (PRC)
PRC1017R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 12, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 210176 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
210176 -01	SO-TC-283A-101222
210176 -02	SO-TC-283B-101222
210176 -03	SO-TC-283C-101222

The TCLP extracts of the samples were sent to Fremont Analytical for lead and arsenic analysis. The report will be forwarded upon receipt.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/17/22

Date Received: 10/12/22

Project: Superlon Plastics, F&BI 210176

Date Extracted: 10/13/22

Date Analyzed: 10/13/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 56-165)
SO-TC-283A-101222 210176-01	ND	ND	ND	114
SO-TC-283B-101222 210176-02	ND	ND	ND	108
SO-TC-283C-101222 210176-03	ND	ND	ND	110
Method Blank 02-2470 MB2	ND	ND	ND	114

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/17/22

Date Received: 10/12/22

Project: Superlon Plastics, F&BI 210176

Date Extracted: 10/13/22

Date Analyzed: 10/13/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
SO-TC-283A-101222 210176-01	<50	<250	102
SO-TC-283B-101222 210176-02	<50	<250	101
SO-TC-283C-101222 210176-03	<50	<250	101
Method Blank 02-2501 MB2	<50	<250	62

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/17/22

Date Received: 10/12/22

Project: Superlon Plastics, F&BI 210176

Date Extracted: 10/13/22

Date Analyzed: 10/13/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-283A-101222 210176-01	9.4
SO-TC-283B-101222 210176-02	9.2
SO-TC-283C-101222 210176-03	9.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/17/22

Date Received: 10/12/22

Project: Superlon Plastics, F&BI 210176

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 210164-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	92	94	73-135	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	88	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/17/22

Date Received: 10/12/22

Project: Superlon Plastics, F&BI 210176

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 210175-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.5	9.5	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

10-12-22

BT2

210176

Report To Kenny King
 Company PERC Pacific Environmental Redevelopment Corporation
 Address 0424 E Meadow Lake Drive
 City, State, ZIP Snohomish, WA 98290
 Phone (425) 346-0931 Email kking@perc-nw.com

SAMPLERS (signature)

PROJECT NAME

Super Ion Plastics

PO #

REMARKS

Project Specific RLs - Yes / No

Page # of

TURNAROUND TIME

Standard Turnaround
 RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days
 Archive Samples
 Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TCLP 131 As/Pb Only	pH 9045C	NWTPH-HGD	NWTPH-DX	
SO-TC-283A-101222	01	10/12/22	11:25	SOIL	1							✓	✓	✓	✓	
SO-TC-283B-101222	02	10/12/22	11:35	SOIL	1							✓	✓	✓	✓	
SO-TC-283C-101222	03	10/12/22	11:45	SOIL	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Kenny King</u>	<u>Kenny King</u>	<u>PERC</u>	<u>10/12/22</u>	<u>13:17</u>
Received by: <u>NH</u>	<u>NH</u>	<u>FBI</u>	<u>10/12/22</u>	<u>13:17</u>
Relinquished by:				
Received by:		Samples received at	<u>23°C</u>	



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 210176
Work Order Number: 2210229

October 17, 2022

Attention Michael Erdahl:

Fremont Analytical, Inc. received 3 sample(s) on 10/14/2022 for the analyses presented in the following report.

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com



Date: 10/17/2022

CLIENT: Friedman & Bruya
Project: 210176
Work Order: 2210229

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2210229-001	SO-TC-283A-101222	10/12/2022 11:25 AM	10/14/2022 9:19 AM
2210229-002	SO-TC-283B-101222	10/12/2022 11:35 AM	10/14/2022 9:19 AM
2210229-003	SO-TC-283C-101222	10/12/2022 11:45 AM	10/14/2022 9:19 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned



Case Narrative

WO#: 2210229

Date: 10/17/2022

CLIENT: Friedman & Bruya

Project: 210176

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2210229

Date Reported: 10/17/2022

CLIENT: Friedman & Bruya

Project: 210176

Lab ID: 2210229-001

Client Sample ID: SO-TC-283A-101222

Collection Date: 10/12/2022 11:25:00 AM

Matrix: Extract

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38157

Analyst: EH

Arsenic	ND	0.100		mg/L	1	10/17/2022 1:36:15 PM
Lead	ND	0.200		mg/L	1	10/17/2022 1:36:15 PM

Lab ID: 2210229-002

Client Sample ID: SO-TC-283B-101222

Collection Date: 10/12/2022 11:35:00 AM

Matrix: Extract

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38157

Analyst: EH

Arsenic	ND	0.100		mg/L	1	10/17/2022 1:38:59 PM
Lead	ND	0.200		mg/L	1	10/17/2022 1:38:59 PM

Lab ID: 2210229-003

Client Sample ID: SO-TC-283C-101222

Collection Date: 10/12/2022 11:45:00 AM

Matrix: Extract

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38157

Analyst: EH

Arsenic	ND	0.100		mg/L	1	10/17/2022 1:41:42 PM
Lead	ND	0.200		mg/L	1	10/17/2022 1:41:42 PM

Work Order: 2210229
 CLIENT: Friedman & Bruya
 Project: 210176

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: MB-38157		SampType: MBLK			Units: mg/L		Prep Date: 10/17/2022			RunNo: 79072		
Client ID: MBLKS		Batch ID: 38157			Analysis Date: 10/17/2022					SeqNo: 1628114		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100									
Lead	ND	0.200									

Sample ID: LCS-38157		SampType: LCS			Units: mg/L		Prep Date: 10/17/2022			RunNo: 79072		
Client ID: LCSS		Batch ID: 38157			Analysis Date: 10/17/2022					SeqNo: 1628115		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.11	0.100	5.000	0	102	65	135				
Lead	2.52	0.200	2.500	0	101	65	135				

Sample ID: 2210228-001ADUP		SampType: DUP			Units: mg/L		Prep Date: 10/17/2022			RunNo: 79072		
Client ID: BATCH		Batch ID: 38157			Analysis Date: 10/17/2022					SeqNo: 1628117		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100						0		30	
Lead	ND	0.200						0		30	

Sample ID: 2210228-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/17/2022			RunNo: 79072		
Client ID: BATCH		Batch ID: 38157			Analysis Date: 10/17/2022					SeqNo: 1628118		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.29	0.100	5.000	0.03150	105	65	135				
Lead	2.54	0.200	2.500	0	101	65	135				

Sample ID: 2210228-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 10/17/2022			RunNo: 79072		
Client ID: BATCH		Batch ID: 38157			Analysis Date: 10/17/2022					SeqNo: 1628119		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.36	0.100	5.000	0.03150	107	65	135	5.288	1.35	30	
Lead	2.57	0.200	2.500	0	103	65	135	2.536	1.37	30	

Work Order: 2210229
CLIENT: Friedman & Bruya
Project: 210176

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: 2210228-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 10/17/2022			RunNo: 79072		
Client ID: BATCH		Batch ID: 38157			Analysis Date: 10/17/2022					SeqNo: 1628119		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Sample ID: MB2-38157	SampType: MBLK	Units: mg/L	Prep Date: 10/17/2022	RunNo: 79072							
Client ID: MBLKS	Batch ID: 38157	Analysis Date: 10/17/2022	SeqNo: 1628130								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.100
Lead	ND	0.200

Client Name: FB
 Logged by: Clare Griggs

Work Order Number: 2210229
 Date Received: 10/14/2022 9:19:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? UPS

Log In

3. Coolers are present? Yes ☐ No ☒ NA ☐
No cooler present.
 4. Shipping container/cooler in good condition? Yes ☒ No ☐
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 7. Were all items received at a temperature of >2°C to 6°C * Yes ☐ No ☐ NA ☒
 8. Sample(s) in proper container(s)? Yes ☒ No ☐
 9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 10. Are samples properly preserved? Yes ☒ No ☐
 11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 14. Does paperwork match bottle labels? Yes ☒ No ☐
 15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 16. Is it clear what analyses were requested? Yes ☒ No ☐
 17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

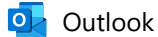
Person Notified: Date:
 By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
 Regarding:
 Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.4

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



RE: One data package for your review and approval

From EH SolidWaste <EHSolidWaste@tpchd.org>

Date Tue 10/25/2022 12:11 PM

To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>

Jeff,

I have reviewed this data and the soils are appropriate for disposal under WDA 2625R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management

Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>

Sent: Monday, October 24, 2022 4:22 PM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: One data package for your review and approval

CAUTION: External Email

Keith:

Attached is one data package for your review and approval. The sample results represent sediment samples collected from the ditch adjacent to the Superlon Plastics site (WDA Permit number 2526R). Each sample represents approximately 23 CY of soil/sediment.

SAMPLE ID	TCLP (mg/L)		NWTPH-Dx		NWTPH-HCID			pH	Request
	Arsenic Concentration	Lead Concentration	Diesel Range Organics	Motor Oil Range Organics	Gasoline Range Organics	Diesel Range Organics	Motor Oil Range Organics		
SO-TC-284A-101222	0.0221	ND	171	535	ND	ND	ND	9.15	Asking for approval
SO-TC-284B-101222	0.0996	ND	112	354	ND	ND	ND	9.26	Asking for approval
SO-TC-284C-101222	0.103	ND	120	359	ND	ND	DET	9.14	Asking for approval

Thank you

Jeff

Jeffrey D King, PG/LG
President/Geologist
Pacific Environmental & Redevelopment Corporation (PERC)
8424 E Meadow Lake Drive
Snohomish, WA 98290
425.238.2212
jking@perc-nw.com

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Analytical Resources, LLC
Analytical Chemists and Consultants

24 October 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22J0215

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2022.10.24
09:34:17 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22J0215		Turn-around Requested: 3 DAY		Date: 10/12/2022		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 4253460921		Page: 1 of 1									
Client Contact: Kenny King				No. of Coolers: 8 Cooler Temps: 23.1									
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments					
Client Project #: SLON		Samplers: KING		TCLP 1311 As/Pb Only		pH 9045C		NWT PH-H CID		NW-TPH-Dx			
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-284A-101222	10/12/22	15:55	SOIL	1	✓	✓	✓	✓					
SO-TC-284B-101222	10/12/22	16:05	SOIL	1	✓	✓	✓	✓					
SO-TC-284C-101222	10/12/22	16:15	SOIL	1	✓	✓	✓	✓					
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walter</i>		Relinquished by: (Signature)		Received by: (Signature)			
				Printed Name: Kenny King		Printed Name: Jacob Walter		Printed Name:		Printed Name:			
				Company: PERC		Company: ARZ		Company:		Company:			
				Date & Time: 10/13/2022 16:25		Date & Time: 10/13/22 1625		Date & Time:		Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-284A-101222	22J0215-01	Solid	12-Oct-2022 15:55	13-Oct-2022 16:05
SO-TC-284B-101222	22J0215-02	Solid	12-Oct-2022 16:05	13-Oct-2022 16:05
SO-TC-284C-101222	22J0215-03	Solid	12-Oct-2022 16:15	13-Oct-2022 16:05



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22J0215

Sample receipt

Samples as listed on the preceding page were received 13-Oct-2022 16:05 under ARI work order 22J0215. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

Hydrocarbon Identification (HCID) - WA-Ecology Method NW-HCID



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 2270215

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1625

23.1

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: J009705

Cooler Accepted by: JS Date: 10/13/22 Time: 1625

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? NA YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

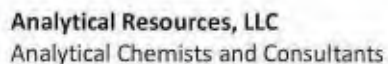
Samples Logged by: PIA Date: 10/13/22 Time: 16:50 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

[illegible]

00070F

Cooler Temperature Compliance Form

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

SO-TC-284A-101222
22J0215-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/12/2022 15:55

Instrument: FID3 Analyst: AA

Analyzed: 10/22/2022 03:28

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 10.01 g (wet)	Extract ID: 22J0215-01 A 04
	Preparation Batch: BKJ0547	Final Volume: 10 mL	Dry Weight: 7.00 g
	Prepared: 10/21/2022		% Solids: 69.98

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	71.4	171	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	143	535	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	78.1	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

SO-TC-284A-101222
22J0215-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/12/2022 15:55

Instrument: FID3 Analyst: AA

Analyzed: 10/22/2022 01:00

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 3580A (Vortex)

Extract ID: 22J0215-01 A 03

Preparation Batch: BKJ0546

Sample Size: 10 g (wet)

Dry Weight: 7.00 g

Prepared: 10/21/2022

Final Volume: 5 mL

% Solids: 69.98

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	14	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	36	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	71	ND	mg/kg	U
<i>Surrogate: o-Terphenyl</i>			50-150 %	109	%	
<i>Surrogate: n-Triacontane</i>			50-150 %	113	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

SO-TC-284A-101222
22J0215-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 10/12/2022 15:55

Instrument: ICP2 Analyst: SKD

Analyzed: 10/20/2022 17:47

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22J0215-01 A 02

Preparation Batch: BKJ0459

Sample Size: 25 mL (wet)

Prepared: 10/18/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0221	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

SO-TC-284A-101222
22J0215-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/12/2022 15:55

Instrument: Accumet AB150 Analyst: UW

Analyzed: 10/18/2022 12:15

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22J0215-01 A 01

Preparation Batch: BKJ0460

Sample Size: 20 g (wet)

Prepared: 10/18/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.15	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

SO-TC-284B-101222
22J0215-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/12/2022 16:05

Instrument: FID3 Analyst: AA

Analyzed: 10/22/2022 03:49

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave)
Preparation Batch: BKJ0547
Prepared: 10/21/2022

Sample Size: 10.02 g (wet)
Final Volume: 10 mL

Extract ID: 22J0215-02 A 04
Dry Weight: 6.71 g
% Solids: 66.95

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	74.5	112	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	149	354	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	86.9	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

SO-TC-284B-101222
22J0215-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/12/2022 16:05

Instrument: FID3 Analyst: AA

Analyzed: 10/22/2022 01:21

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKJ0546
Prepared: 10/21/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22J0215-02 A 03
Dry Weight: 6.69 g
% Solids: 66.95

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	37	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	75	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	106	%	
Surrogate: n-Triacontane			50-150 %	110	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

SO-TC-284B-101222
22J0215-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 10/12/2022 16:05

Instrument: ICP2 Analyst: SKD

Analyzed: 10/20/2022 17:38

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22J0215-02 A 02

Preparation Batch: BKJ0459

Sample Size: 25 mL (wet)

Prepared: 10/18/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0996	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

SO-TC-284B-101222
22J0215-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/12/2022 16:05

Instrument: Accumet AB150 Analyst: UW

Analyzed: 10/18/2022 12:15

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22J0215-02 A 01

Preparation Batch: BKJ0460

Sample Size: 20 g (wet)

Prepared: 10/18/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.26	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

SO-TC-284C-101222
22J0215-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/12/2022 16:15

Instrument: FID3 Analyst: AA

Analyzed: 10/22/2022 04:10

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave)
Preparation Batch: BKJ0547
Prepared: 10/21/2022

Sample Size: 10 g (wet)
Final Volume: 10 mL

Extract ID: 22J0215-03 A 04
Dry Weight: 6.76 g
% Solids: 67.56

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	74.0	120	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	148	359	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	83.6	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

SO-TC-284C-101222
22J0215-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/12/2022 16:15

Instrument: FID3 Analyst: AA

Analyzed: 10/22/2022 01:43

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKJ0546
Prepared: 10/21/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22J0215-03 A 03
Dry Weight: 6.76 g
% Solids: 67.56

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	37	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	74	DET	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	94.2	%	
Surrogate: n-Triacontane			50-150 %	95.1	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

SO-TC-284C-101222
22J0215-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 10/12/2022 16:15

Instrument: ICP2 Analyst: SKD

Analyzed: 10/20/2022 17:41

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22J0215-03 A 02

Preparation Batch: BKJ0459

Sample Size: 25 mL (wet)

Prepared: 10/18/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.103	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

SO-TC-284C-101222
22J0215-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/12/2022 16:15

Instrument: Accumet AB150 Analyst: UW

Analyzed: 10/18/2022 12:15

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22J0215-03 A 01

Preparation Batch: BKJ0460

Sample Size: 20 g (wet)

Prepared: 10/18/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.14	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKJ0546 - NWTPH-HCID

Instrument: FID3 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKJ0546-BLK1)		Prepared: 21-Oct-2022 Analyzed: 22-Oct-2022 00:39							
Gasoline Range Organics (Tol-C12)	ND	10	mg/kg						U
Diesel Range Organics (C12-C24)	ND	25	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	50	mg/kg						U
Surrogate: o-Terphenyl	12.0		mg/kg	11.3	106	50-150			
Surrogate: n-Triacontane	13.4		mg/kg	11.3	119	50-150			



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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKJ0547 - NWTPH-Dx

Instrument: FID3 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKJ0547-BLK1) Prepared: 21-Oct-2022 Analyzed: 22-Oct-2022 02:46									
Diesel Range Organics (C12-C24)	ND	50.0	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	100	mg/kg						U
Surrogate: o-Terphenyl	46.3		mg/kg	56.3		82.2	50-150		
LCS (BKJ0547-BS1) Prepared: 21-Oct-2022 Analyzed: 22-Oct-2022 03:07									
Diesel Range Organics (C12-C24)	1460	50.0	mg/kg	1500		97.0	63-120		
Surrogate: o-Terphenyl	53.7		mg/kg	56.3		95.5	50-150		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKJ0459 - EPA 6010D

Instrument: ICP2 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKJ0459-BLK1)						Prepared: 18-Oct-2022 Analyzed: 20-Oct-2022 17:07					
Arsenic	0.0207	0.0140	0.250	mg/L							J
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BKJ0459-DUP1)						Source: 22J0215-01 Prepared: 18-Oct-2022 Analyzed: 20-Oct-2022 17:50					
Arsenic	0.0737	0.0140	0.250	mg/L		0.0221			108.00	20	L, J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BKJ0459-MS1)						Source: 22J0215-01 Prepared: 18-Oct-2022 Analyzed: 20-Oct-2022 17:53					
Arsenic	4.43	0.0140	0.250	mg/L	4.00	0.0221	110	75-125			
Lead	4.05	0.0065	0.100	mg/L	4.00	ND	101	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKJ0460 - EPA 9045D

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BKJ0460-BS1)						Prepared: 18-Oct-2022 Analyzed: 18-Oct-2022 12:15				
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8			
Duplicate (BKJ0460-DUP1)						Source: 22J0215-01 Prepared: 18-Oct-2022 Analyzed: 18-Oct-2022 12:15				
pH	9.12	0.01	0.01	pH Units	9.15	0.33	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP
NWTPH-Dx in Solid	
Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE
NWTPH-HCID in Solid	
Gasoline Range Organics (Tol-C12)	NELAP,DoD-ELAP,WADOE
Diesel Range Organics (C12-C24)	NELAP,DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C38)	NELAP,DoD-ELAP,WADOE



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8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023



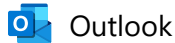
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
24-Oct-2022 09:32

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
D1	Surrogate was not detected due to sample extract dilution
H	Hold time violation - Hold time was exceeded.
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Six data package for your review and approval

From Keith Johnston <KJohnston@tpchd.org>

Date Mon 10/31/2022 3:43 PM

To kking perc-nw.com <kking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc JEFFREY KING <jking@percnw.com>

Hi Jeff,

I have reviewed the data and approve these soils for disposal under WDA 2625R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: kking perc-nw.com <kking@perc-nw.com>

Sent: Monday, October 31, 2022 2:15 PM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: JEFFREY KING <jking@percnw.com>

Subject: Six data package for your review and approval

CAUTION: External Email

Keith:

Attached is six data packages for your review and approval. The sample results represent sediment samples collected from the ditch adjacent to the Superlon Plastics site (WDA Permit number 2526R). Each sample represents approximately 23 CY of soil/sediment.

	TCLP (mg/L)		NWTPH-Dx		NWTPH-HCID				
SAMPLE ID	Arsenic Concentration	Lead Concentration	Diesel Range Organics	Motor Oil Range Organics	Gasoline Range Organics	Diesel Range Organics	Motor Oil Range Organics	pH	Request
SO-TC-285A-102422	ND	ND	<50	<250	ND	ND	ND	9.6	Asking for approval
SO-TC-285B-102422	ND	ND	350	790	ND	ND	DET	9.6	Asking for approval

SO-TC-285C-102422	ND	ND	<50	<250	ND	ND	ND	9.6	Asking for approval
SO-TC-286A-102422	ND	ND	<50	<250	ND	ND	ND	9.4	Asking for approval
SO-TC-286B-102422	ND	ND	<50	<250	ND	ND	ND	9.3	Asking for approval
SO-TC-286C-102422	ND	ND	<50	<250	ND	ND	ND	9.4	Asking for approval
SO-TC-287A-102522	ND	ND	<50	<250	ND	ND	ND	9.2	Asking for approval
SO-TC-287B-102522	0.201	0.264	<50	<250	ND	ND	ND	9.1	Asking for approval
SO-TC-287C-102522	0.325	1.12	<50	<250	ND	ND	ND	9.1	Asking for approval
SO-TC-288A-102522	0.124	0.341	<50	<250	ND	ND	ND	8.9	Asking for approval
SO-TC-288B-102522	ND	0.314	<50	<250	ND	ND	ND	8.8	Asking for approval
SO-TC-288C-102522	ND	ND	<50	<250	ND	ND	ND	9.1	Asking for approval
SO-TC-289A-102522	0.136	0.881	<50	<250	ND	ND	ND	6.6	Asking for approval
SO-TC-289B-102522	0.863	1.04	<50	<250	ND	ND	ND	8.5	Asking for approval
SO-TC-289C-102522	ND	ND	<50	<250	ND	ND	ND	8.9	Asking for approval
SO-TC-290A-102622	0.335	ND	<50	<250	ND	ND	ND	8.8	Asking for approval
SO-TC-290B-102622	0.289	0.603	<50	<250	ND	ND	ND	8.8	Asking for approval
SO-TC-290C-102622	0.144	0.358	<50	<250	ND	ND	ND	8.9	Asking for approval

Thanks,
Kenny

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 28, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on October 26, 2022 from the Superlon Plastics, F&BI 210393 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jeff King (PRC), Kim Oliva-Membreno (PRC)
PRC1028R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 26, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 210393 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
210393 -01	SO-TC-285A-102422
210393 -02	SO-TC-285B-102422
210393 -03	SO-TC-285C-102422

The TCLP extracts were sent to Fremont Analytical for lead and arsenic analysis. The report will be forwarded upon receipt.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210393

Date Extracted: 10/27/22

Date Analyzed: 10/27/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SO-TC-285A-102422 210393-01	ND	ND	ND	113
SO-TC-285B-102422 210393-02	ND	ND	D	112
SO-TC-285C-102422 210393-03	ND	ND	ND	116
Method Blank 02-2651 MB	ND	ND	ND	89

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210393

Date Extracted: 10/26/22

Date Analyzed: 10/26/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
SO-TC-285A-102422 210393-01	<50	<250	102
SO-TC-285B-102422 210393-02	350 x	790	112
SO-TC-285C-102422 210393-03	<50	<250	116
Method Blank 02-2653 MB	<50	<250	100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210393

Date Extracted: 10/27/22

Date Analyzed: 10/27/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-285A-102422 210393-01	9.6
SO-TC-285B-102422 210393-02	9.6
SO-TC-285C-102422 210393-03	9.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210393

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 210390-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	2,900	92	76	73-135	19

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	98	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210393

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 210394-03 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.4	9.4	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

210393

Report To Kenny KingCompany PERC Pacific Environmental
Redevelopment CorporationAddress 8424 E Meadow Lake DriveCity, State, ZIP Snohomish WA 98190Phone (425) 346-0926 Email KKing@perc-nw.com

SAMPLE CHAIN OF CUSTODY

10/26/22

BI 3

SAMPLERS (signature)	
PROJECT NAME <u>Superlon Plastics</u>	PO#
REMARKS	INVOICE TO
Project Specific RLs - Yes / No	

Page # _____ of _____
TURNAROUND TIME Standard Turnaround RUSH <u>ASAP</u> Rush charges authorized by: <u>Kenny King</u>
SAMPLE DISPOSAL Dispose after 30 days Archive Samples Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TC/TP/TH/As/Pb Only	PH 9045C	NWTPH-HCID	NWTPH-Dx	
SO-TC-285A-102422	01	10/24/22	10:24	SOIL	1							✓	✓	✓	✓	
SO-TC-285B-102422	02	10/24/22	10:34	SOIL	1							✓	✓	✓	✓	
SO-TC-285C-102422	03	10/24/22	10:44	SOIL	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Kenny King</u>	<u>Kenny King</u>	<u>PERC</u>	<u>10/24/22</u>	<u>12:16</u>
Received by: <u>VINH</u>	<u>VINH</u>	<u>FBI</u>	<u>10-22-22</u>	<u>12:16</u>
Relinquished by:				
Received by:				
Samples received at <u>14°C</u>				



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 210393
Work Order Number: 2210545

October 31, 2022

Attention Michael Erdahl:

Fremont Analytical, Inc. received 3 sample(s) on 10/27/2022 for the analyses presented in the following report.

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

CC:
Kenny King

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com



Date: 10/31/2022

CLIENT: Friedman & Bruya
Project: 210393
Work Order: 2210545

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2210545-001	SO-TC-285A-102422	10/27/2022 10:24 AM	10/27/2022 1:18 PM
2210545-002	SO-TC-285B-102422	10/27/2022 10:34 AM	10/27/2022 1:18 PM
2210545-003	SO-TC-285C-102422	10/27/2022 10:44 AM	10/27/2022 1:18 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya
Project: 210393

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2210545
Date Reported: 10/31/2022

Client: Friedman & Bruya

Collection Date: 10/27/2022 10:24:00 AM

Project: 210393

Lab ID: 2210545-001

Matrix: Extract

Client Sample ID: SO-TC-285A-102422

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38307

Analyst: SLL

Arsenic	ND	0.100		mg/L	1	10/28/2022 5:22:00 PM
Lead	ND	0.200		mg/L	1	10/28/2022 5:22:00 PM



Analytical Report

Work Order: 2210545
Date Reported: 10/31/2022

Client: Friedman & Bruya

Collection Date: 10/27/2022 10:34:00 AM

Project: 210393

Lab ID: 2210545-002

Matrix: Extract

Client Sample ID: SO-TC-285B-102422

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38307

Analyst: SLL

Arsenic	ND	0.100		mg/L	1	10/28/2022 5:39:00 PM
Lead	ND	0.200		mg/L	1	10/28/2022 5:39:00 PM



Analytical Report

Work Order: 2210545
Date Reported: 10/31/2022

Client: Friedman & Bruya

Collection Date: 10/27/2022 10:44:00 AM

Project: 210393

Lab ID: 2210545-003

Matrix: Extract

Client Sample ID: SO-TC-285C-102422

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38307

Analyst: SLL

Arsenic	ND	0.100		mg/L	1	10/28/2022 5:46:00 PM
Lead	ND	0.200		mg/L	1	10/28/2022 5:46:00 PM

Work Order: 2210545
CLIENT: Friedman & Bruya
Project: 210393

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: MB-38307		SampType: MBLK			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: MBLKS		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636270		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100									
Lead	ND	0.200									

Sample ID: LCS-38307		SampType: LCS			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: LCSS		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636271		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.14	0.100	5.000	0	103	65	135				
Lead	2.55	0.200	2.500	0	102	65	135				

Sample ID: 2210545-001ADUP		SampType: DUP			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: SO-TC-285A-102422		Batch ID: 38307			Analysis Date: 10/28/2022			SeqNo: 1636273				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100						0		30	
Lead	ND	0.200						0		30	

Sample ID: 2210545-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: SO-TC-285A-102422		Batch ID: 38307			Analysis Date: 10/28/2022			SeqNo: 1636274				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	4.82	0.100	5.000	0.04430	95.5	65	135				
Lead	2.42	0.200	2.500	0	96.9	65	135				

Sample ID: 2210545-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: SO-TC-285A-102422		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636275		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.04	0.100	5.000	0.04430	100	65	135	4.819	4.56	30	
Lead	2.57	0.200	2.500	0	103	65	135	2.422	5.73	30	

Work Order: 2210545
CLIENT: Friedman & Bruya
Project: 210393

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: 2210545-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: SO-TC-285A-102422		Batch ID: 38307			Analysis Date: 10/28/2022			SeqNo: 1636275				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Sample ID: 2210548-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/28/2022		RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022				SeqNo: 1636290		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.36	0.100	5.000	0.3350	101	65	135				
Lead	2.57	0.200	2.500	0.06170	101	65	135				



Sample Log-In Check List

Client Name: **FB**
Logged by: **Clare Griggs**

Work Order Number: **2210545**
Date Received: **10/27/2022 1:18:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
7. Were all items received at a temperature of $>2^{\circ}\text{C}$ to 6°C * Yes ☒ No ☐ NA ☐
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp $^{\circ}\text{C}$
Sample	5.3

* Note: DoD/ELAP and TNI require items to be received at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$

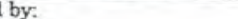
2210545

SUBCONTRACTOR <i>Freemont</i>	
PROJECT NAME/NO. <i>210393</i>	PO # <i>C-376</i>
REMARKS	

☐ Standard TAT
☒ RUSH by 10/28
Rush charges authorized by: _____

Page 11 of 11

[illegible]

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Michael Erdahl 	Friedman & Bruya	10/27/22	11:00
Received by: 	Clare O'Connor	FBI	10/27/22	13:18
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 28, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on October 26, 2022 from the Superlon Plastics, F&BI 210394 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jeff King (PRC), Kim Oliva-Membreno (PRC)
PRC1028R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 26, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 210394 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
210394 -01	SO-TC-286A-102422
210394 -02	SO-TC-286B-102422
210394 -03	SO-TC-286C-102422

The TCLP extracts were sent to Fremont Analytical for lead and arsenic analysis. The report will be forwarded upon receipt.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210394

Date Extracted: 10/27/22

Date Analyzed: 10/27/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SO-TC-286A-102422 210394-01	ND	ND	ND	113
SO-TC-286B-102422 210394-02	ND	ND	ND	109
SO-TC-286C-102422 210394-03	ND	ND	ND	111
Method Blank 02-2651 MB	ND	ND	ND	89

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210394

Date Extracted: 10/26/22

Date Analyzed: 10/26/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
SO-TC-286A-102422 210394-01	<50	<250	120
SO-TC-286B-102422 210394-02	<50	<250	116
SO-TC-286C-102422 210394-03	<50	<250	110
Method Blank 02-2653 MB	<50	<250	100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210394

Date Extracted: 10/27/22

Date Analyzed: 10/27/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-286A-102422 210394-01	9.4
SO-TC-286B-102422 210394-02	9.3
SO-TC-286C-102422 210394-03	9.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210394

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 210390-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	2,900	92	76	73-135	19

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	98	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210394

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 210394-03 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.4	9.4	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

210394

Report To Kenny King
 Company PERC Pacific Environmental Redevelopment Corporation
 Address 8424 E Meadow Lake Drive
 City, State, ZIP Snohomish, WA 98290
 Phone (425) 346-0921 Email eking@perc-nw.com

SAMPLE CHAIN OF CUSTODY

10/26/22

BI3

Page # _____ of _____

SAMPLERS (signature)

PROJECT NAME

PO #

Super Ion Plastics

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

TURNAROUND TIME

Standard Turnaround

RUSH ASAP

Rush charges authorized by:

Kenny King

SAMPLE DISPOSAL

Dispose after 90 days

Archive Samples

Other _____

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TC/PC/PAHs Only	pH	NWTPH-HCID	NWTPH-Dx	
SO-TC-286A-102422	01	10/24/22	14:05	SOIL	1							✓	✓	✓	✓	
SO-TC-286B-102422	02	10/24/22	14:15	SOIL	1							✓	✓	✓	✓	
SO-TC-286C-102422	03	10/24/22	14:25	SOIL	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Kenny King</u>	<u>Kenny King</u>	<u>PERC</u>	<u>10/26/22</u>	<u>12:16</u>
Received by: <u>[Signature]</u>	<u>VINTI</u>	<u>FBI</u>	<u>10-26-22</u>	<u>12:16</u>
Relinquished by:				
Received by:		Samples received at	<u>14°C</u>	



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 210394
Work Order Number: 2210544

October 31, 2022

Attention Michael Erdahl:

Fremont Analytical, Inc. received 3 sample(s) on 10/27/2022 for the analyses presented in the following report.

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC:
Kenny King

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original



Date: 10/31/2022

CLIENT: Friedman & Bruya
Project: 210394
Work Order: 2210544

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2210544-001	SO-TC-286A-102422	10/24/2022 2:05 PM	10/27/2022 1:18 PM
2210544-002	SO-TC-286B-102422	10/24/2022 2:15 PM	10/27/2022 1:18 PM
2210544-003	SO-TC-286C-102422	10/24/2022 2:25 PM	10/27/2022 1:18 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned



Case Narrative

WO#: 2210544

Date: 10/31/2022

CLIENT: Friedman & Bruya

Project: 210394

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2210544
Date Reported: 10/31/2022

Client: Friedman & Bruya

Collection Date: 10/24/2022 2:05:00 PM

Project: 210394

Lab ID: 2210544-001

Matrix: Extract

Client Sample ID: SO-TC-286A-102422

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38307

Analyst: SLL

Arsenic	ND	0.100		mg/L	1	10/28/2022 5:31:00 PM
Lead	ND	0.200		mg/L	1	10/28/2022 5:31:00 PM



Analytical Report

Work Order: 2210544
Date Reported: 10/31/2022

Client: Friedman & Bruya

Collection Date: 10/24/2022 2:15:00 PM

Project: 210394

Lab ID: 2210544-002

Matrix: Extract

Client Sample ID: SO-TC-286B-102422

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38307

Analyst: SLL

Arsenic	ND	0.100		mg/L	1	10/28/2022 5:34:00 PM
Lead	ND	0.200		mg/L	1	10/28/2022 5:34:00 PM



Analytical Report

Work Order: 2210544
Date Reported: 10/31/2022

Client: Friedman & Bruya

Collection Date: 10/24/2022 2:25:00 PM

Project: 210394

Lab ID: 2210544-003

Matrix: Extract

Client Sample ID: SO-TC-286C-102422

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38307

Analyst: SLL

Arsenic	ND	0.100		mg/L	1	10/28/2022 5:36:00 PM
Lead	ND	0.200		mg/L	1	10/28/2022 5:36:00 PM

Work Order: 2210544
 CLIENT: Friedman & Bruya
 Project: 210394

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: MB-38307		SampType: MBLK			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: MBLKS		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636270		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100									
Lead	ND	0.200									

Sample ID: LCS-38307		SampType: LCS			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: LCSS		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636271		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.14	0.100	5.000	0	103	65	135				
Lead	2.55	0.200	2.500	0	102	65	135				

Sample ID: 2210545-001ADUP		SampType: DUP			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636273		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100						0		30	
Lead	ND	0.200						0		30	

Sample ID: 2210545-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636274		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	4.82	0.100	5.000	0.04430	95.5	65	135				
Lead	2.42	0.200	2.500	0	96.9	65	135				

Sample ID: 2210545-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636275		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.04	0.100	5.000	0.04430	100	65	135	4.819	4.56	30	
Lead	2.57	0.200	2.500	0	103	65	135	2.422	5.73	30	

Work Order: 2210544
CLIENT: Friedman & Bruya
Project: 210394

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: 2210545-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636275		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Sample ID: 2210548-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/28/2022		RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022				SeqNo: 1636290		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.36	0.100	5.000	0.3350	101	65	135				
Lead	2.57	0.200	2.500	0.06170	101	65	135				

Client Name: **FB**
 Logged by: **Clare Griggs**

Work Order Number: **2210544**
 Date Received: **10/27/2022 1:18:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
 4. Shipping container/cooler in good condition? Yes ☒ No ☐
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 7. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 8. Sample(s) in proper container(s)? Yes ☒ No ☐
 9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 10. Are samples properly preserved? Yes ☒ No ☐
 11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 14. Does paperwork match bottle labels? Yes ☒ No ☐
 15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 16. Is it clear what analyses were requested? Yes ☒ No ☐
 17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
 By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
 Regarding:
 Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.3

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2210544

Phone # (206) 285-8282 merdahl@friedmanandbruya.com

REMARKS

☐ Will call with instructions[illegible]

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE

Relinquished by:

PRINT NAME _____

~~Michael Erdahl~~

Eric Fournier

COMPANY

Friedman & Bruya

FA

DATE _____

10/27/22

10/21/22

TIME

11:00

13:18

Received by:

Relinquished by:

Received by _____

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 28, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on October 26, 2022 from the Superlon Plastics, F&BI 210395 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jeff King (PRC), Kim Oliva-Membreno (PRC)
PRC1028R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 26, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 210395 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
210395 -01	SO-TC-287A-102522
210395 -02	SO-TC-287B-102522
210395 -03	SO-TC-287C-102522

The TCLP extracts were sent to Fremont Analytical for lead and arsenic analysis. The report will be forwarded upon receipt.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210395

Date Extracted: 10/27/22

Date Analyzed: 10/27/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SO-TC-287A-102522 210395-01	ND	ND	ND	111
SO-TC-287B-102522 210395-02	ND	ND	ND	118
SO-TC-287C-102522 210395-03	ND	ND	ND	116
Method Blank 02-2651 MB	ND	ND	ND	89

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210395

Date Extracted: 10/26/22

Date Analyzed: 10/26/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
SO-TC-287A-102522 210395-01	<50	<250	109
SO-TC-287B-102522 210395-02	<50	<250	114
SO-TC-287C-102522 210395-03	<50	<250	117
Method Blank 02-2653 MB	<50	<250	100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210395

Date Extracted: 10/27/22

Date Analyzed: 10/27/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-287A-102522 210395-01	9.2
SO-TC-287B-102522 210395-02	9.1
SO-TC-287C-102522 210395-03	9.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210395

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 210390-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	2,900	92	76	73-135	19

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	98	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210395

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 210394-03 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.4	9.4	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

210395

SAMPLE CHAIN OF CUSTODY

10/26/22

BI3

Report To Kenny KingCompany PERC Pacific Environmental
Redevelopment CorporationAddress 8424 E Meadow Lake DriveCity, State, ZIP Snohomish, WA 98290Phone (425) 346-0921 Email king@perc-nw.com

SAMPLERS (signature)

PROJECT NAME

PO #

Superlon Plastics

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

Page # _____ of _____

TURNAROUND TIME

Standard Turnaround

RUSH ASAP

Rush charges authorized by:

Kenny King

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TLCP 1311 As/Pb/Cd/Cr	PH 9045C	NWTPH-HCID	NWTPH-Dx	
SO-TC-287A-108522	01	10/25/22	8:05	SOIL	1							✓	✓	✓	✓	
SO-TC-287B-102522	02	10/25/22	8:15	SOIL	1							✓	✓	✓	✓	
SO-TC-287C-102522	03	10/25/22	8:25	SOIL	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Kenny King</u>	<u>Kenny King</u>	<u>PERC</u>	<u>10/26/22</u>	<u>12:16</u>
Received by: <u>Vinh</u>	<u>VINH</u>	<u>FBI</u>	<u>10-26-22</u>	<u>12:16</u>
Relinquished by:				
Received by:		Samples received at <u>14</u> C.		



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 210395
Work Order Number: 2210546

October 31, 2022

Attention Michael Erdahl:

Fremont Analytical, Inc. received 3 sample(s) on 10/27/2022 for the analyses presented in the following report.

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

CC:
Kenny King

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com



Date: 10/31/2022

CLIENT: Friedman & Bruya
Project: 210395
Work Order: 2210546

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2210546-001	SO-TC-287A-102522	10/25/2022 8:05 AM	10/27/2022 1:18 PM
2210546-002	SO-TC-287B-102522	10/25/2022 8:15 AM	10/27/2022 1:18 PM
2210546-003	SO-TC-287C-102522	10/25/2022 8:25 AM	10/27/2022 1:18 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya**Project:** 210395

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2210546
Date Reported: 10/31/2022

Client: Friedman & Bruya

Collection Date: 10/25/2022 8:05:00 AM

Project: 210395

Lab ID: 2210546-001

Matrix: Extract

Client Sample ID: SO-TC-287A-102522

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38307

Analyst: SLL

Arsenic	ND	0.100		mg/L	1	10/28/2022 5:48:00 PM
Lead	ND	0.200		mg/L	1	10/28/2022 5:48:00 PM



Analytical Report

Work Order: 2210546
Date Reported: 10/31/2022

Client: Friedman & Bruya

Collection Date: 10/25/2022 8:15:00 AM

Project: 210395

Lab ID: 2210546-002

Matrix: Extract

Client Sample ID: SO-TC-287B-102522

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38307

Analyst: SLL

Arsenic	0.201	0.100		mg/L	1	10/28/2022 5:51:00 PM
Lead	0.264	0.200		mg/L	1	10/28/2022 5:51:00 PM



Analytical Report

Work Order: 2210546
Date Reported: 10/31/2022

Client: Friedman & Bruya

Collection Date: 10/25/2022 8:25:00 AM

Project: 210395

Lab ID: 2210546-003

Matrix: Extract

Client Sample ID: SO-TC-287C-102522

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38307

Analyst: SLL

Arsenic	0.325	0.100		mg/L	1	10/28/2022 5:53:00 PM
Lead	1.12	0.200		mg/L	1	10/28/2022 5:53:00 PM

Work Order: 2210546
 CLIENT: Friedman & Bruya
 Project: 210395

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: MB-38307		SampType: MBLK			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: MBLKS		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636270		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100									
Lead	ND	0.200									

Sample ID: LCS-38307		SampType: LCS			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: LCSS		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636271		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.14	0.100	5.000	0	103	65	135				
Lead	2.55	0.200	2.500	0	102	65	135				

Sample ID: 2210545-001ADUP		SampType: DUP			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636273		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100						0		30	
Lead	ND	0.200						0		30	

Sample ID: 2210545-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022			SeqNo: 1636274				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	4.82	0.100	5.000	0.04430	95.5	65	135				
Lead	2.42	0.200	2.500	0	96.9	65	135				

Sample ID: 2210545-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636275		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.04	0.100	5.000	0.04430	100	65	135	4.819	4.56	30	
Lead	2.57	0.200	2.500	0	103	65	135	2.422	5.73	30	

Work Order: 2210546
CLIENT: Friedman & Bruya
Project: 210395

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: 2210545-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636275		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Sample ID: 2210548-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/28/2022		RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022				SeqNo: 1636290		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.36	0.100	5.000	0.3350	101	65	135				
Lead	2.57	0.200	2.500	0.06170	101	65	135				

Client Name: **FB**
 Logged by: **Clare Griggs**

Work Order Number: **2210546**
 Date Received: **10/27/2022 1:18:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
 4. Shipping container/cooler in good condition? Yes ☒ No ☐
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 7. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 8. Sample(s) in proper container(s)? Yes ☒ No ☐
 9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 10. Are samples properly preserved? Yes ☒ No ☐
 11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 14. Does paperwork match bottle labels? Yes ☒ No ☐
 15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 16. Is it clear what analyses were requested? Yes ☒ No ☐
 17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
 By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
 Regarding:
 Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.3

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2210546

Phone # (206) 285-8282 merdahl@friedmanandbruya.com

Freemont

C-376

REMARKS

TURNAROUND TIME

~~FRUSH~~ by 10/28

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples

☐ Will call with instructions

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

TIME

~~Michael Erdahl~~

Eric Young

Friedman & Bruya

10/27/22

11:55

Received by:

by Eric Kouno

Clare O'Connor

FAI

10/27/22

13:18

Relinquished by:

Received by:

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 28, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on October 26, 2022 from the Superlon Plastics, F&BI 210396 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jeff King (PRC), Kim Oliva-Membreno (PRC)
PRC1028R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 26, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 210396 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
210396 -01	SO-TC-288A-102522
210396 -02	SO-TC-288B-102522
210396 -03	SO-TC-288C-102522

The TCLP extracts were sent to Fremont Analytical for lead and arsenic analysis. The report will be forwarded upon receipt.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210396

Date Extracted: 10/27/22

Date Analyzed: 10/27/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SO-TC-288A-102522 210396-01	ND	ND	ND	112
SO-TC-288B-102522 210396-02	ND	ND	ND	115
SO-TC-288C-102522 210396-03	ND	ND	ND	113
Method Blank 02-2651 MB	ND	ND	ND	89

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210396

Date Extracted: 10/26/22

Date Analyzed: 10/26/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
SO-TC-288A-102522 210396-01	<50	<250	109
SO-TC-288B-102522 210396-02	<50	<250	103
SO-TC-288C-102522 210396-03	<50	<250	107
Method Blank 02-2653 MB	<50	<250	100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210396

Date Extracted: 10/27/22

Date Analyzed: 10/27/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-288A-102522 210396-01	8.9
SO-TC-288B-102522 210396-02	8.8
SO-TC-288C-102522 210396-03	9.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210396

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 210390-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	2,900	92	76	73-135	19

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	98	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210396

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 210394-03 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.4	9.4	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

210396

SAMPLE CHAIN OF CUSTODY

10/26/22

BI 3

Report To Kenny King
 Company PERC Pacific Environmental Remediation Corporation
 Address 8424 E Meadow Lake Drive
 City, State, ZIP Snohomish, WA 98290
 Phone (425) 346-0721 Email KKing@perc-mw.com

SAMPLERS (signature)

PROJECT NAME

PO #

Superlon Plastics

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

Page # of

TURNAROUND TIME

Standard Turnaround

RUSH ASAP

Rush charges authorized by:

Kenny King

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TPH 1311 As/Ph Only	pH 9045C	NWTPH-H410	NWTPH-Dx	
SO-TC-288A-102522	01	10/25/22	11:05	Soil	1							✓	✓	✓	✓	
SO-TC-288B-102522	02	10/25/22	11:15	Soil	1							✓	✓	✓	✓	
SO-TC-288C-102522	03	10/25/22	11:25	Soil	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Kenny King</u>	<u>Kenny King</u>	<u>PERC</u>	<u>10/26/22</u>	<u>12:16</u>
Received by: <u>[Signature]</u>	<u>WATH</u>	<u>FBI</u>	<u>10-26-22</u>	<u>12:16</u>
Relinquished by:				
Received by:		Samples received at <u>14°C</u>		



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 210396
Work Order Number: 2210547

October 31, 2022

Attention Michael Erdahl:

Fremont Analytical, Inc. received 3 sample(s) on 10/27/2022 for the analyses presented in the following report.

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

CC:
Kenny King

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com



Date: 10/31/2022

CLIENT: Friedman & Bruya
Project: 210396
Work Order: 2210547

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2210547-001	SO-TC-288A-102522	10/25/2022 11:05 AM	10/27/2022 1:18 PM
2210547-002	SO-TC-288B-102522	10/25/2022 11:15 AM	10/27/2022 1:18 PM
2210547-003	SO-TC-288C-102522	10/25/2022 11:25 AM	10/27/2022 1:18 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned



Case Narrative

WO#: 2210547

Date: 10/31/2022

CLIENT: Friedman & Bruya
Project: 210396

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2210547
Date Reported: 10/31/2022

Client: Friedman & Bruya

Collection Date: 10/25/2022 11:05:00 AM

Project: 210396

Lab ID: 2210547-001

Matrix: Extract

Client Sample ID: SO-TC-288A-102522

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38307

Analyst: SLL

Arsenic	0.124	0.100		mg/L	1	10/28/2022 5:56:00 PM
Lead	0.341	0.200		mg/L	1	10/28/2022 5:56:00 PM



Analytical Report

Work Order: 2210547
Date Reported: 10/31/2022

Client: Friedman & Bruya

Collection Date: 10/25/2022 11:15:00 AM

Project: 210396

Lab ID: 2210547-002

Matrix: Extract

Client Sample ID: SO-TC-288B-102522

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38307

Analyst: SLL

Arsenic	ND	0.100		mg/L	1	10/28/2022 5:58:00 PM
Lead	0.314	0.200		mg/L	1	10/28/2022 5:58:00 PM



Analytical Report

Work Order: 2210547
Date Reported: 10/31/2022

Client: Friedman & Bruya

Collection Date: 10/25/2022 11:25:00 AM

Project: 210396

Lab ID: 2210547-003

Matrix: Extract

Client Sample ID: SO-TC-288C-102522

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38307

Analyst: SLL

Arsenic	ND	0.100		mg/L	1	10/28/2022 6:01:00 PM
Lead	ND	0.200		mg/L	1	10/28/2022 6:01:00 PM

Work Order: 2210547
 CLIENT: Friedman & Bruya
 Project: 210396

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: MB-38307		SampType: MBLK			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: MBLKS		Batch ID: 38307						Analysis Date: 10/28/2022			SeqNo: 1636270	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100									
Lead	ND	0.200									

Sample ID: LCS-38307		SampType: LCS			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: LCSS		Batch ID: 38307			Analysis Date: 10/28/2022			SeqNo: 1636271				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.14	0.100	5.000	0	103	65	135				
Lead	2.55	0.200	2.500	0	102	65	135				

Sample ID: 2210545-001ADUP		SampType: DUP			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022			SeqNo: 1636273				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100						0		30	
Lead	ND	0.200						0		30	

Sample ID: 2210545-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307						Analysis Date: 10/28/2022			SeqNo: 1636274	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	4.82	0.100	5.000	0.04430	95.5	65	135				
Lead	2.42	0.200	2.500	0	96.9	65	135				

Sample ID: 2210545-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022			SeqNo: 1636275				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.04	0.100	5.000	0.04430	100	65	135	4.819	4.56	30	
Lead	2.57	0.200	2.500	0	103	65	135	2.422	5.73	30	

Work Order: 2210547
CLIENT: Friedman & Bruya
Project: 210396

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: 2210545-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636275		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Sample ID: 2210548-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/28/2022		RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022				SeqNo: 1636290		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.36	0.100	5.000	0.3350	101	65	135				
Lead	2.57	0.200	2.500	0.06170	101	65	135				

Client Name: **FB**
 Logged by: **Clare Griggs**

Work Order Number: **2210547**
 Date Received: **10/27/2022 1:18:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
 4. Shipping container/cooler in good condition? Yes ☒ No ☐
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 7. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 8. Sample(s) in proper container(s)? Yes ☒ No ☐
 9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 10. Are samples properly preserved? Yes ☒ No ☐
 11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 14. Does paperwork match bottle labels? Yes ☒ No ☐
 15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 16. Is it clear what analyses were requested? Yes ☒ No ☐
 17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
 By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
 Regarding:
 Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.3

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2210547

Phone # (206) 285-8282 merdahl@friedmanandbruya.com

REMARKS

☐ Will call with instructions

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Received by

Libby Baumgart

FAT

10/22/17

13-10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 28, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on October 26, 2022 from the Superlon Plastics, F&BI 210397 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jeff King (PRC), Kim Oliva-Membreno (PRC)
PRC1028R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 26, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 210397 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
210397 -01	SO-TC-289A-102522
210397 -02	SO-TC-289B-102522
210397 -03	SO-TC-289C-102522

The TCLP extracts were sent to Fremont Analytical for lead and arsenic analysis. The report will be forwarded upon receipt.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210397

Date Extracted: 10/27/22

Date Analyzed: 10/27/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SO-TC-289A-102522 210397-01	ND	ND	ND	112
SO-TC-289B-102522 210397-02	ND	ND	ND	111
SO-TC-289C-102522 210397-03	ND	ND	ND	112
Method Blank 02-2651 MB	ND	ND	ND	89

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210397

Date Extracted: 10/26/22

Date Analyzed: 10/26/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
SO-TC-289A-102522 210397-01	<50	<250	107
SO-TC-289B-102522 210397-02	<50	<250	106
SO-TC-289C-102522 210397-03	<50	<250	107
Method Blank 02-2653 MB	<50	<250	100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210397

Date Extracted: 10/27/22

Date Analyzed: 10/27/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-289A-102522 210397-01	6.6
SO-TC-289B-102522 210397-02	8.5
SO-TC-289C-102522 210397-03	8.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210397

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 210390-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	2,900	92	76	73-135	19

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	98	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210397

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 210394-03 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.4	9.4	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

210397

Report To

Kenny King

Company

PERC Pacific Environmental
Redevelopment Corporation

Address

6424 E Meadow Lake Dr

City, State, ZIP

Snohomish, WA 98290

Phone (425) 346-0921

Email kking@perc-nw.com

SAMPLE CHAIN OF CUSTODY

10/26/22

B13

SAMPLERS (signature)

PROJECT NAME

Superior Plastics

PO #

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

Page # of

TURNAROUND TIME

Standard Turnaround
RUSH ASAP

Rush charges authorized by:

Kenny King

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TC/PC/PAHs As/PAHs Only	pH 9045C	NWTPH-HCID	NWTPH-Dx	
SO-TC-289A-102522	01	10/25/22	14:45	Soil	1							✓	✓	✓	✓	
SO-TC-289B-102522	02	10/25/22	14:55	Soil	1							✓	✓	✓	✓	
SO-TC-289C-102522	03	10/25/22	15:05	Soil	1							✓	✓	✓	✓	

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>Kenny King</i>	Kenny King	PERC	10/26/22	12:16
Received by: <i>blush</i>	VINT	FBI	10-26-22	12:16
Relinquished by:				
Received by:		Samples received at	14	C



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 210397
Work Order Number: 2210549

October 31, 2022

Attention Michael Erdahl:

Fremont Analytical, Inc. received 3 sample(s) on 10/27/2022 for the analyses presented in the following report.

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC:
Kenny King

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original



Date: 10/31/2022

CLIENT: Friedman & Bruya
Project: 210397
Work Order: 2210549

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2210549-001	SO-TC-289A-102522	10/25/2022 2:45 PM	10/27/2022 1:18 PM
2210549-002	SO-TC-289B-102522	10/25/2022 2:55 PM	10/27/2022 1:18 PM
2210549-003	SO-TC-289C-102522	10/25/2022 3:05 PM	10/27/2022 1:18 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya
Project: 210397

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2210549
Date Reported: 10/31/2022

Client: Friedman & Bruya

Collection Date: 10/25/2022 2:45:00 PM

Project: 210397

Lab ID: 2210549-001

Matrix: Extract

Client Sample ID: SO-TC-289A-102522

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38307

Analyst: SLL

Arsenic	0.136	0.100		mg/L	1	10/28/2022 6:17:00 PM
Lead	0.881	0.200		mg/L	1	10/28/2022 6:17:00 PM



Analytical Report

Work Order: 2210549
Date Reported: 10/31/2022

Client: Friedman & Bruya

Collection Date: 10/25/2022 2:55:00 PM

Project: 210397

Lab ID: 2210549-002

Matrix: Extract

Client Sample ID: SO-TC-289B-102522

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38307

Analyst: SLL

Arsenic	0.863	0.100		mg/L	1	10/28/2022 6:20:00 PM
Lead	1.04	0.200		mg/L	1	10/28/2022 6:20:00 PM



Analytical Report

Work Order: 2210549
Date Reported: 10/31/2022

Client: Friedman & Bruya

Collection Date: 10/25/2022 3:05:00 PM

Project: 210397

Lab ID: 2210549-003

Matrix: Extract

Client Sample ID: SO-TC-289C-102522

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38307

Analyst: SLL

Arsenic	ND	0.100		mg/L	1	10/28/2022 6:22:00 PM
Lead	ND	0.200		mg/L	1	10/28/2022 6:22:00 PM

Work Order: 2210549
 CLIENT: Friedman & Bruya
 Project: 210397

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: MB-38307		SampType: MBLK			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: MBLKS		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636270		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100									
Lead	ND	0.200									

Sample ID: LCS-38307		SampType: LCS			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: LCSS		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636271		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.14	0.100	5.000	0	103	65	135				
Lead	2.55	0.200	2.500	0	102	65	135				

Sample ID: 2210545-001ADUP		SampType: DUP			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636273		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100						0		30	
Lead	ND	0.200						0		30	

Sample ID: 2210545-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636274		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	4.82	0.100	5.000	0.04430	95.5	65	135				
Lead	2.42	0.200	2.500	0	96.9	65	135				

Sample ID: 2210545-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636275		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.04	0.100	5.000	0.04430	100	65	135	4.819	4.56	30	
Lead	2.57	0.200	2.500	0	103	65	135	2.422	5.73	30	

Work Order: 2210549
CLIENT: Friedman & Bruya
Project: 210397

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: 2210545-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022			SeqNo: 1636275				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Sample ID: 2210548-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/28/2022		RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022				SeqNo: 1636290		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.36	0.100	5.000	0.3350	101	65	135				
Lead	2.57	0.200	2.500	0.06170	101	65	135				



Sample Log-In Check List

Client Name: **FB**
Logged by: **Clare Griggs**

Work Order Number: **2210549**
Date Received: **10/27/2022 1:18:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
7. Were all items received at a temperature of $>2^{\circ}\text{C}$ to 6°C * Yes ☒ No ☐ NA ☐
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp $^{\circ}\text{C}$
Sample	5.3

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2210549

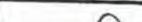
SUBCONTRACTOR <i>Freemont</i>	
PROJECT NAME/NO. <i>210397</i>	PO # <i>C-376</i>
REMARKS	

TURNAROUND TIME

SAMPLE DISPOSAL

- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

[illegible]

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Michael Erdahl Eric Fowler	Friedman & Bruya	10/27/22	11:00
Received by: 	Lily Baumgart	FAI	10/27/22	13:18
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 28, 2022

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on October 26, 2022 from the Superlon Plastics, F&BI 210398 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jeff King (PRC), Kim Oliva-Membreno (PRC)
PRC1028R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 26, 2022 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 210398 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
210398 -01	SO-TC-290A-102622
210398 -02	SO-TC-290B-102622
210398 -03	SO-TC-290C-102622

The TCLP extracts were sent to Fremont Analytical for lead and arsenic analysis. The report will be forwarded upon receipt.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210398

Date Extracted: 10/27/22

Date Analyzed: 10/27/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
SO-TC-290A-102622 210398-01	ND	ND	ND	111
SO-TC-290B-102622 210398-02	ND	ND	ND	113
SO-TC-290C-102622 210398-03	ND	ND	ND	112
Method Blank 02-2651 MB	ND	ND	ND	89

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210398

Date Extracted: 10/26/22

Date Analyzed: 10/26/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
SO-TC-290A-102622 210398-01	<50	<250	112
SO-TC-290B-102622 210398-02	<50	<250	102
SO-TC-290C-102622 210398-03	<50	<250	105
Method Blank 02-2653 MB	<50	<250	100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210398

Date Extracted: 10/27/22

Date Analyzed: 10/27/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-290A-102622 210398-01	8.8
SO-TC-290B-102622 210398-02	8.8
SO-TC-290C-102622 210398-03	8.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210398

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 210390-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	2,900	92	76	73-135	19

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	98	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/26/22

Project: Superlon Plastics, F&BI 210398

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 210394-03 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.4	9.4	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

210398

SAMPLE CHAIN OF CUSTODY

10/26/22 BI3

Report To Kenny King
 Company PERC Pacific Environmental Redevelopment Corporation
 Address 8424 E Meadow Lake Dr.
 City, State, ZIP Snohomish, WA 98290
 Phone (425) 346-0921 Email KKing@perc-nw.com

SAMPLERS (signature)

Page # _____ of _____

PROJECT NAME

PO #

Superlon Plastics

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

TURNAROUND TIME

Standard Turnaround
RUSH ASAP

Rush charges authorized by:

Kenny King

SAMPLE DISPOSAL

Dispose after 30 days
Archive Samples
Other _____

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TCDF 1311 As/Pb only	pH 9045C	NWTPH-HC10	NWTPH-Dx	
SO-TC-290A-102622	01	10/26/22	10:10	SOIL	1							✓	✓	✓	✓	
SO-TC-290B-102622	02	10/26/22	10:20	SOIL	1							✓	✓	✓	✓	
SO-TC-290C-102622	03	10/26/22	10:30	SOIL	2							✓	✓	✓	✓	

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Kenny King</u>	<u>Kenny King</u>	<u>PERC</u>	<u>10/26/22</u>	<u>12:16</u>
Received by: <u>Allen</u>	<u>VIDH</u>	<u>FBI</u>	<u>10-26-22</u>	<u>12:18</u>
Relinquished by:				
Received by:		Samples received at <u>14</u> °C		



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 210398
Work Order Number: 2210548

October 31, 2022

Attention Michael Erdahl:

Fremont Analytical, Inc. received 3 sample(s) on 10/27/2022 for the analyses presented in the following report.

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

CC:
Kenny King

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com



Date: 10/31/2022

CLIENT: Friedman & Bruya
Project: 210398
Work Order: 2210548

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2210548-001	SO-TC-290A-102622	10/26/2022 10:10 AM	10/27/2022 1:18 PM
2210548-002	SO-TC-290B-102622	10/26/2022 10:20 AM	10/27/2022 1:18 PM
2210548-003	SO-TC-290C-102622	10/26/2022 10:30 AM	10/27/2022 1:18 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned



Case Narrative

WO#: 2210548

Date: 10/31/2022

CLIENT: Friedman & Bruya
Project: 210398

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2210548
Date Reported: 10/31/2022

Client: Friedman & Bruya

Collection Date: 10/26/2022 10:10:00 AM

Project: 210398

Lab ID: 2210548-001

Matrix: Extract

Client Sample ID: SO-TC-290A-102622

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38307

Analyst: SLL

Arsenic	0.335	0.100		mg/L	1	10/28/2022 6:03:00 PM
Lead	ND	0.200		mg/L	1	10/28/2022 6:03:00 PM



Analytical Report

Work Order: 2210548
Date Reported: 10/31/2022

Client: Friedman & Bruya

Collection Date: 10/26/2022 10:20:00 AM

Project: 210398

Lab ID: 2210548-002

Matrix: Extract

Client Sample ID: SO-TC-290B-102622

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38307

Analyst: SLL

Arsenic	0.289	0.100		mg/L	1	10/28/2022 6:08:00 PM
Lead	0.603	0.200		mg/L	1	10/28/2022 6:08:00 PM



Analytical Report

Work Order: 2210548
Date Reported: 10/31/2022

Client: Friedman & Bruya

Collection Date: 10/26/2022 10:30:00 AM

Project: 210398

Lab ID: 2210548-003

Matrix: Extract

Client Sample ID: SO-TC-290C-102622

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 38307

Analyst: SLL

Arsenic	0.144	0.100		mg/L	1	10/28/2022 6:15:00 PM
Lead	0.358	0.200		mg/L	1	10/28/2022 6:15:00 PM

Work Order: 2210548
CLIENT: Friedman & Bruya
Project: 210398

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: MB-38307		SampType: MBLK			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: MBLKS		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636270		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100									
Lead	ND	0.200									

Sample ID: LCS-38307		SampType: LCS			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: LCSS		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636271		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.14	0.100	5.000	0	103	65	135				
Lead	2.55	0.200	2.500	0	102	65	135				

Sample ID: 2210545-001ADUP		SampType: DUP			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636273		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.100						0		30	
Lead	ND	0.200						0		30	

Sample ID: 2210545-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636274		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	4.82	0.100	5.000	0.04430	95.5	65	135				
Lead	2.42	0.200	2.500	0	96.9	65	135				

Sample ID: 2210545-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636275		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	5.04	0.100	5.000	0.04430	100	65	135	4.819	4.56	30	
Lead	2.57	0.200	2.500	0	103	65	135	2.422	5.73	30	

Work Order: 2210548
CLIENT: Friedman & Bruya
Project: 210398

QC SUMMARY REPORT

Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: 2210545-001AMSD		SampType: MSD			Units: mg/L		Prep Date: 10/28/2022			RunNo: 79412		
Client ID: BATCH		Batch ID: 38307			Analysis Date: 10/28/2022					SeqNo: 1636275		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Sample ID: 2210548-001AMS		SampType: MS			Units: mg/L		Prep Date: 10/28/2022		RunNo: 79412		
Client ID: SO-TC-290A-102622		Batch ID: 38307			Analysis Date: 10/28/2022				SeqNo: 1636290		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.36	0.100	5.000	0.3350	101	65	135				
Lead	2.57	0.200	2.500	0.06170	101	65	135				

Client Name: **FB**
 Logged by: **Clare Griggs**

Work Order Number: **2210548**
 Date Received: **10/27/2022 1:18:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
 4. Shipping container/cooler in good condition? Yes ☒ No ☐
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
 6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 7. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
 8. Sample(s) in proper container(s)? Yes ☒ No ☐
 9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 10. Are samples properly preserved? Yes ☒ No ☐
 11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 14. Does paperwork match bottle labels? Yes ☒ No ☐
 15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 16. Is it clear what analyses were requested? Yes ☒ No ☐
 17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
 By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
 Regarding:
 Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.3

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

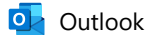
2210548

SUBCONTRACTOR <i>Freemont</i>	
PROJECT NAME/NO. <i>210398</i>	PO # <i>C-376</i>
REMARKS	

☐ Will call with instructions

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Received by



RE: Five data packages for your review and approval

From Keith Johnston <KJohnston@tpchd.org>
Date Mon 11/14/2022 9:33 AM
To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc kking perc-nw.com <kking@perc-nw.com>

Jeff,

I have reviewed the data and these soils are appropriate for disposal under WDA 2625R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
 Environmental Health
 (253) 405-8604 c • kjohnston@tpchd.org
 (253) 649-1840 o • www.tpchd.org



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We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>
Sent: Friday, November 11, 2022 7:11 AM
To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc: 'kking@perc-nw.com' <kking@perc-nw.com>
Subject: Five data packages for your review and approval

CAUTION: External Email

Keith:

Attached are five data packages for your review and approval under the permit for the Superlon Plastics site (WDA Permit number 2526R). Each of the samples are from sediment/soil collected in the ditch adjacent to the Superlon Plastics site and represent approximately 23 CY of sediment/soil.

SAMPLE ID	TCLP (mg/L)		NWTPH-Dx		NWTPH-HCID			pH	Request
	Arsenic Concentration	Lead Concentration	Diesel Range Organics	Motor Oil Range Organics	Gasoline Range Organics	Diesel Range Organics	Motor Oil Range Organics		
SO-TC-291A-102722	0.16	0.76	ND	236	ND	ND	ND	8.4	Asking for approval
SO-TC-291B-102722	0.15	0.78	101	347	ND	ND	DET	8.45	Asking for approval
SO-TC-291C-102722	0.08	1.43	127	374	ND	DET	DET	7.66	Asking for approval
SO-TC-292A-102722	0.16	0.6	ND	164	ND	ND	ND	7.72	Asking for approval
SO-TC-292B-102722	0.08	0.18	ND	211	ND	ND	ND	8.6	Asking for approval
SO-TC-292C-102722	0.06	0.06	93.5	312	ND	DET	DET	8.83	Asking for approval
SO-TC-294A-103122	0.21	1.18	100	335	ND	ND	ND	8.53	Asking for approval
SO-TC-294B-103122	0.45	1.43	79.9	301	ND	ND	ND	8.18	Asking for approval
SO-TC-294C-103122	0.08	0.35	92.9	340	ND	ND	ND	8.51	Asking for approval

SO-TC-295A-110122	0.09	0.17	118	373	ND	ND	DET	8.51	Asking for approval
SO-TC-295B-110122	0.12	0.68	88.3	306	ND	ND	DET	8.43	Asking for approval
SO-TC-295C-110122	0.11	0.28	113	367	ND	ND	DET	8.31	Asking for approval
SO-TC-296A-110122	0.14	0.88	108	389	ND	ND	DET	8.43	Asking for approval
SO-TC-296B-110122	0.1	0.22	116	415	ND	ND	ND	8.14	Asking for approval
SO-TC-296C-110122	0.09	0.48	87.1	306	ND	ND	ND	8.32	Asking for approval

Thank you
Jeff

Jeffrey D King, PG/LG
President/Geologist
Pacific Environmental & Redevelopment Corporation (PERC)
 8424 E Meadow Lake Drive
 Snohomish, WA 98290
 425.238.2212
jking@perc-nw.com

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Analytical Resources, LLC
Analytical Chemists and Consultants

08 November 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22J0490

Associated SDG ID(s)
N/A

Shelly
Fishel


Digitally signed by Shelly Fishel
Date: 2022.11.08 19:14:57 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclosed Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Shelly Fishel, Project Manager



ARI Assigned Number: 22J0490	Turn-around Requested: 3 DAY
------------------------------	------------------------------

ARI Client Company: PERC Phone: 4253460921

Client Contact: **Kenny King**

Client Project Name: **Superlon Plastics**

Client Project #:	SLON	Samplers:	KING
-------------------	------	-----------	------

Sample ID	Date	Time	Matrix	No. Containers
-----------	------	------	--------	----------------

SO-TC-291A-102622	10/26/22	14:25	SOIL	1
-------------------	----------	-------	------	---

SO-TC-291B-102622	10/26/22	14:35	SOIL	1
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SO-TC-291C-102622	10/26/22	14:45	SOIL	1

Comments/Special Instructions	Relinquished by:	Received by:
-------------------------------	------------------	--------------

(Signature) <i>Kenny King</i>	(Signature) <i>[Signature]</i>
Printed Name: <i>Kenny King</i>	Printed Name: <i>[Name]</i>

Company: <u>Henny King</u>	Company: <u>AB</u>
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FERC	10/27/22	16:18
Date & Time:	10/27/22	16:18

Date: 10/26/2022

Page: of

No. of Coolers:	Cooler Temps: 20.4
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Analysis Requested				

1311	Only	45C	PH-H	PH-
------	------	-----	------	-----

TCLP As/Pb	pH 9.0	NWTF CID	NW-T Dx
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✓	✓	✓	✓	
---	---	---	---	--

✓	✓	✓	✓	
---	---	---	---	--

✓	✓	✓	✓	

--	--	--	--	--

<i>William R.</i>				Relinquished by:	

	(Signature)
	Printed Name:

	Company:
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122	16:18	Date & Time:
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Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	TCLP As/Pb	pH 90	NWTF CID	NW-T Dx					
SO-TC-291A-102622	10/26/22	14:25	SOIL	1	✓	✓	✓	✓					
SO-TC-291B-102622	10/26/22	14:35	SOIL	1	✓	✓	✓	✓					
SO-TC-291C-102622	10/26/22	14:45	SOIL	1	✓	✓	✓	✓					
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>	Received by: (Signature) <i>Phillip Bates</i>	Relinquished by:			Received by:			
					Printed Name: <i>Kenny King</i>	Printed Name: <i>Phillip Bates</i>							
					Company: <i>PERC</i>	Company: <i>AR</i>							
					Date & Time: <i>10/27/22 16:18</i>	Date & Time: <i>10/27/22 16:18</i>							

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-291A-102722	22J0490-01	Solid	26-Oct-2022 14:25	27-Oct-2022 16:18
SO-TC-291B-102722	22J0490-02	Solid	26-Oct-2022 14:35	27-Oct-2022 16:18
SO-TC-291C-102722	22J0490-03	Solid	26-Oct-2022 14:45	27-Oct-2022 16:18



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:13

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22J0490

Sample receipt

Samples as listed on the preceding page were received 27-Oct-2022 16:18 under ARI work order 22J0490. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

Hydrocarbon Identification (HCID) - WA-Ecology Method NW-HCID

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

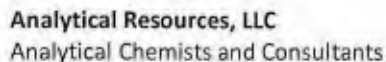


PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Reported:
08-Nov-2022 19:13

The method blank was clean at the reporting limits.



Cooler Temperature Compliance Form

Completed by: PIB Date: 10/27/25 Time: 16:18

Version 001
10/27/2021



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): _____ (NA)
Assigned ARI Job No: 22J0490

Project Name: Supelion
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES (NO)
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 16:18 204
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 5009728

Cooler Accepted by: PIR Date: 10/27/22 Time: 16:18

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES (NO)
How were bottles sealed in plastic bags? Individually Grouped (Not)
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: _____ (NA)
Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: PIR Date: 10/27/22 Time: 1707 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:13

SO-TC-291A-102722
22J0490-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/26/2022 14:25

Instrument: FID4 Analyst: AA

Analyzed: 10/31/2022 18:00

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave)
Preparation Batch: BKJ0820
Prepared: 10/31/2022

Sample Size: 10.03 g (wet)
Final Volume: 10 mL

Extract ID: 22J0490-01 A 02
Dry Weight: 6.24 g
% Solids: 62.21

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	80.1	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	160	236	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	104	%	



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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
08-Nov-2022 19:13

SO-TC-291A-102722
22J0490-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/26/2022 14:25

Instrument: FID3 Analyst: AA

Analyzed: 10/31/2022 18:10

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKJ0819
Prepared: 10/31/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22J0490-01 A 01
Dry Weight: 6.22 g
% Solids: 62.21

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	16	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	40	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	80	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	III	%	
Surrogate: n-Triacontane			50-150 %	III	%	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:13

SO-TC-291A-102722
22J0490-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 10/26/2022 14:25

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/01/2022 22:32

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22J0490-01 A 04

Preparation Batch: BKK0009

Sample Size: 25 mL (wet)

Prepared: 11/01/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.16	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.76	mg/L	



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Project: Superlon Plastics
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Reported:
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SO-TC-291A-102722
22J0490-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/26/2022 14:25

Instrument: Accumet AB150 Analyst: BF

Analyzed: 11/03/2022 12:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22J0490-01 A

Preparation Batch: BKK0063

Sample Size: 20.62 g (wet)

Prepared: 11/02/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.40	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:13

SO-TC-291B-102722
22J0490-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/26/2022 14:35

Instrument: FID4 Analyst: AA

Analyzed: 10/31/2022 18:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 22J0490-02 A 02

Preparation Batch: BKJ0820

Sample Size: 10.03 g (wet)

Dry Weight: 6.58 g

Prepared: 10/31/2022

Final Volume: 10 mL

% Solids: 65.59

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	76.0	101	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	152	347	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	102	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:13

SO-TC-291B-102722
22J0490-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/26/2022 14:35

Instrument: FID3 Analyst: AA

Analyzed: 10/31/2022 18:31

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 3580A (Vortex)

Extract ID: 22J0490-02 A 01

Preparation Batch: BKJ0819

Sample Size: 10 g (wet)

Dry Weight: 6.56 g

Prepared: 10/31/2022

Final Volume: 5 mL

% Solids: 65.59

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	38	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	76	DET	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	114	%	
Surrogate: n-Triacontane			50-150 %	110	%	



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Project: Superlon Plastics
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Reported:
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SO-TC-291B-102722
22J0490-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 10/26/2022 14:35

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/01/2022 22:36

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22J0490-02 A 04

Preparation Batch: BKK0009

Sample Size: 25 mL (wet)

Prepared: 11/01/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.15	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.78	mg/L	



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Project Number: SLON
Project Manager: Kenny King

Reported:
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SO-TC-291B-102722
22J0490-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/26/2022 14:35

Instrument: Accumet AB150 Analyst: BF

Analyzed: 11/03/2022 12:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22J0490-02 A

Preparation Batch: BKK0063

Sample Size: 20.36 g (wet)

Prepared: 11/02/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.45	pH Units	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:13

SO-TC-291C-102722
22J0490-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/26/2022 14:45

Instrument: FID4 Analyst: AA

Analyzed: 10/31/2022 18:40

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 22J0490-03 A 02

Preparation Batch: BKJ0820

Sample Size: 10.04 g (wet)

Dry Weight: 6.35 g

Prepared: 10/31/2022

Final Volume: 10 mL

% Solids: 63.22

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	78.8	127	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	158	374	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	97.2	%	



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Project Number: SLON
Project Manager: Kenny King

Reported:
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SO-TC-291C-102722
22J0490-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/26/2022 14:45

Instrument: FID3 Analyst: AA

Analyzed: 10/31/2022 18:53

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex) Extract ID: 22J0490-03 A 01
Preparation Batch: BKJ0819 Sample Size: 10 g (wet) Dry Weight: 6.32 g
Prepared: 10/31/2022 Final Volume: 5 mL % Solids: 63.22

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	16	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	40	DET	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	79	DET	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	115	%	
Surrogate: n-Triacontane			50-150 %	112	%	



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Reported:
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SO-TC-291C-102722
22J0490-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 10/26/2022 14:45

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/01/2022 22:41

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22J0490-03 A 04

Preparation Batch: BKK0009

Sample Size: 25 mL (wet)

Prepared: 11/01/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.08	mg/L	
Lead	7439-92-1	200	0.01	0.02	1.43	mg/L	



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Reported:
08-Nov-2022 19:13

SO-TC-291C-102722
22J0490-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/26/2022 14:45

Instrument: Accumet AB150 Analyst: BF

Analyzed: 11/03/2022 12:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22J0490-03 A

Preparation Batch: BKK0063

Sample Size: 20.11 g (wet)

Prepared: 11/02/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.66	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:13

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKJ0819 - NWTPH-HCID

Instrument: FID3 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKJ0819-BLK1)		Prepared: 31-Oct-2022 Analyzed: 31-Oct-2022 16:45							
Gasoline Range Organics (Tol-C12)	ND	10	mg/kg						U
Diesel Range Organics (C12-C24)	ND	25	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	50	mg/kg						U
Surrogate: o-Terphenyl	12.5		mg/kg	11.3	111	50-150			
Surrogate: n-Triacontane	13.1		mg/kg	11.3	116	50-150			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:13

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKJ0820 - NWTPH-Dx

Instrument: FID4 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKJ0820-BLK1) Prepared: 31-Oct-2022 Analyzed: 31-Oct-2022 16:01									
Diesel Range Organics (C12-C24)	ND	50.0	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	100	mg/kg						U
Surrogate: o-Terphenyl	55.1		mg/kg	56.3		98.0	50-150		
LCS (BKJ0820-BS1) Prepared: 31-Oct-2022 Analyzed: 31-Oct-2022 16:21									
Diesel Range Organics (C12-C24)	1550	50.0	mg/kg	1500		103	63-120		
Surrogate: o-Terphenyl	60.7		mg/kg	56.3		108	50-150		
LCS Dup (BKJ0820-BSD1) Prepared: 31-Oct-2022 Analyzed: 31-Oct-2022 16:41									
Diesel Range Organics (C12-C24)	1410	50.0	mg/kg	1500		93.9	63-120	9.49	30
Surrogate: o-Terphenyl	54.3		mg/kg	56.3		96.5	50-150		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:13

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKK0009 - EPA 6020B

Instrument: ICPMS1 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0009-BLK1)						Prepared: 01-Nov-2022 Analyzed: 01-Nov-2022 22:15					
Arsenic	75a	ND	0.006	0.04	mg/L						U
Lead	208	ND	0.01	0.02	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:13

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKK0063 - EPA 9045D

Instrument: Accumet AB150 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BKK0063-BS1)									
Prepared: 02-Nov-2022 Analyzed: 03-Nov-2022 12:55									
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:13

Certified Analyses included in this Report

Analyte	Certifications
EPA 6020B in Solid	
Arsenic-75a	ADEC,DoD-ELAP,WADOE,NELAP
Arsenic-75b	ADEC,DoD-ELAP,WADOE
Lead-208	NELAP,DoD-ELAP,WADOE,ADEC
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP
NWTPH-Dx in Solid	
Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE
NWTPH-HCID in Solid	
Gasoline Range Organics (Tol-C12)	NELAP,DoD-ELAP,WADOE
Diesel Range Organics (C12-C24)	NELAP,DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C38)	NELAP,DoD-ELAP,WADOE



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
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Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
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Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

08 November 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22J0489

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2022.11.08
19:11:00 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager



Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 22J0489 Turn-around Requested: 3 Day

AR Client Company: PERC Phone: 425-346-0921

Client Contact: Kenny King

Client Project Name: Superlon Plastics

Client Project #: SLON Samplers: King

Sample ID Date Time Matrix No. Containers

SO-TC-292A-102722 10/27/22 10:30 Soil 1

SO-TC-292B-102722 10/27/22 10:45 Soil 1

SO-TC-292C-102722 10/27/22 11:00 Soil 1

Comments/Special Instructions Relinquished by: (Signature) Kenny King

Printed Name: Kenny King

Company: PERC

Date & Time: 10/27/22 16:18

Date: 10/27/2022

Page: of

No. of Coolers: Cooler Temps: 20.4

Analysis Requested

TCLP 1311 As/Pb Only pH 9045c NW-TPH-HCID NW-TPH-Dx

Received by: (Signature) Phillip Bates

Printed Name: Phillip Bates

Company: AR

Date & Time: 10/27/22 16:18

Analytical Resources, LLC
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6202 (fax)



Limits of Liability: Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSSDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-292A-102722	22J0489-01	Solid	27-Oct-2022 10:30	27-Oct-2022 16:18
SO-TC-292B-102722	22J0489-02	Solid	27-Oct-2022 10:45	27-Oct-2022 16:18
SO-TC-292C-102722	22J0489-03	Solid	27-Oct-2022 11:00	27-Oct-2022 16:18



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:07

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22J0489

Sample receipt

Samples as listed on the preceding page were received 27-Oct-2022 16:18 under ARI work order 22J0489. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

Hydrocarbon Identification (HCID) - WA-Ecology Method NW-HCID

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.



PERC-Pacific Environmental and Redevelopment Corp
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The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERL Project Name: Superion
COC No(s): _____ (NA) Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Assigned ARI Job No: 2270489 Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES (NO)
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) _____
Time 16:18 20:4
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 5009708
Cooler Accepted by: PIB Date: 10/27/22 Time: 16:18

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES (NO)
How were bottles sealed in plastic bags? Individually Grouped (Not)
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: _____ NA
Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Rowan Miller Date: 10/27/2022 Time: 16:32 Labels checked by: _____

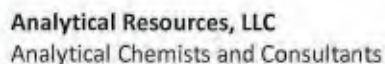
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

Completed by: PIA Date: 10/27/22 Time: 16:18

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:07

SO-TC-292A-102722
22J0489-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/27/2022 10:30

Instrument: FID4 Analyst: AA

Analyzed: 10/31/2022 17:01

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 22J0489-01 A 02

Preparation Batch: BKJ0820

Sample Size: 10 g (wet)

Dry Weight: 6.64 g

Prepared: 10/31/2022

Final Volume: 10 mL

% Solids: 66.41

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	75.3	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	151	164	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	88.9	%	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:07

SO-TC-292A-102722
22J0489-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/27/2022 10:30

Instrument: FID3 Analyst: AA

Analyzed: 10/31/2022 17:06

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKJ0819
Prepared: 10/31/2022

Sample Size: 10.01 g (wet)
Final Volume: 5 mL

Extract ID: 22J0489-01 A 01
Dry Weight: 6.65 g
% Solids: 66.41

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	38	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	75	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	104	%	
Surrogate: n-Triacontane			50-150 %	104	%	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
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SO-TC-292A-102722
22J0489-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 10/27/2022 10:30

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/01/2022 22:19

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22J0489-01 A 04

Preparation Batch: BKK0009

Sample Size: 25 mL (wet)

Prepared: 11/01/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.16	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.60	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
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SO-TC-292A-102722
22J0489-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/27/2022 10:30

Instrument: Accumet AB150 Analyst: BF

Analyzed: 11/03/2022 12:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22J0489-01 A

Preparation Batch: BKK0063

Sample Size: 20.04 g (wet)

Prepared: 11/02/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	7.72	pH Units	



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Project: Superlon Plastics
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Reported:
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SO-TC-292B-102722
22J0489-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/27/2022 10:45

Instrument: FID4 Analyst: AA

Analyzed: 10/31/2022 17:21

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave)
Preparation Batch: BKJ0820
Prepared: 10/31/2022

Sample Size: 10.01 g (wet)
Final Volume: 10 mL

Extract ID: 22J0489-02 A 02
Dry Weight: 6.92 g
% Solids: 69.12

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	72.3	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	145	211	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	96.7	%	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:07

SO-TC-292B-102722
22J0489-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/27/2022 10:45

Instrument: FID3 Analyst: AA

Analyzed: 10/31/2022 17:28

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKJ0819
Prepared: 10/31/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22J0489-02 A 01
Dry Weight: 6.91 g
% Solids: 69.12

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	14	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	36	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	72	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	106	%	
Surrogate: n-Triacontane			50-150 %	106	%	



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Reported:
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SO-TC-292B-102722
22J0489-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 10/27/2022 10:45

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/01/2022 22:23

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22J0489-02 A 04

Preparation Batch: BKK0009

Sample Size: 25 mL (wet)

Prepared: 11/01/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.08	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.18	mg/L	



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Reported:
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SO-TC-292B-102722
22J0489-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/27/2022 10:45

Instrument: Accumet AB150 Analyst: BF

Analyzed: 11/03/2022 12:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22J0489-02 A

Preparation Batch: BKK0063

Sample Size: 20.18 g (wet)

Prepared: 11/02/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.60	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:07

SO-TC-292C-102722
22J0489-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/27/2022 11:00

Instrument: FID4 Analyst: AA

Analyzed: 10/31/2022 17:40

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 22J0489-03 A 02

Preparation Batch: BKJ0820

Sample Size: 10.01 g (wet)

Dry Weight: 7.13 g

Prepared: 10/31/2022

Final Volume: 10 mL

% Solids: 71.18

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	70.2	93.5	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	140	312	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	98.8	%	



PERC-Pacific Environmental and Redevelopment Corp
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Reported:
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SO-TC-292C-102722
22J0489-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/27/2022 11:00

Instrument: FID3 Analyst: AA

Analyzed: 10/31/2022 17:49

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKJ0819
Prepared: 10/31/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22J0489-03 A 01
Dry Weight: 7.12 g
% Solids: 71.18

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	14	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	35	DET	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	70	DET	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	110	%	
Surrogate: n-Triacontane			50-150 %	106	%	



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Project: Superlon Plastics
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Reported:
08-Nov-2022 19:07

SO-TC-292C-102722
22J0489-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 10/27/2022 11:00

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/01/2022 22:28

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22J0489-03 A 04

Preparation Batch: BKK0009

Sample Size: 25 mL (wet)

Prepared: 11/01/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.06	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.06	mg/L	



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Reported:
08-Nov-2022 19:07

SO-TC-292C-102722
22J0489-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/27/2022 11:00

Instrument: Accumet AB150 Analyst: BF

Analyzed: 11/03/2022 12:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22J0489-03 A

Preparation Batch: BKK0063

Sample Size: 20.2 g (wet)

Prepared: 11/02/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.83	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:07

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKJ0819 - NWTPH-HCID

Instrument: FID3 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKJ0819-BLK1)		Prepared: 31-Oct-2022 Analyzed: 31-Oct-2022 16:45							
Gasoline Range Organics (Tol-C12)	ND	10	mg/kg						U
Diesel Range Organics (C12-C24)	ND	25	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	50	mg/kg						U
Surrogate: <i>o</i> -Terphenyl	12.5		mg/kg	11.3	111	50-150			
Surrogate: <i>n</i> -Triacontane	13.1		mg/kg	11.3	116	50-150			



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8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:07

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKJ0820 - NWTPH-Dx

Instrument: FID4 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKJ0820-BLK1) Prepared: 31-Oct-2022 Analyzed: 31-Oct-2022 16:01										
Diesel Range Organics (C12-C24)	ND	50.0	mg/kg							U
Motor Oil Range Organics (C24-C38)	ND	100	mg/kg							U
Surrogate: o-Terphenyl	55.1		mg/kg	56.3		98.0	50-150			
LCS (BKJ0820-BS1) Prepared: 31-Oct-2022 Analyzed: 31-Oct-2022 16:21										
Diesel Range Organics (C12-C24)	1550	50.0	mg/kg	1500		103	63-120			
Surrogate: o-Terphenyl	60.7		mg/kg	56.3		108	50-150			
LCS Dup (BKJ0820-BSD1) Prepared: 31-Oct-2022 Analyzed: 31-Oct-2022 16:41										
Diesel Range Organics (C12-C24)	1410	50.0	mg/kg	1500		93.9	63-120	9.49	30	
Surrogate: o-Terphenyl	54.3		mg/kg	56.3		96.5	50-150			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:07

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKK0009 - EPA 6020B

Instrument: ICPMS1 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0009-BLK1)						Prepared: 01-Nov-2022 Analyzed: 01-Nov-2022 22:15						
Arsenic	75a	ND	0.006	0.04	mg/L							U
Lead	208	ND	0.01	0.02	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:07

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKK0063 - EPA 9045D

Instrument: Accumet AB150 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BKK0063-BS1)						Prepared: 02-Nov-2022 Analyzed: 03-Nov-2022 12:55				
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8			
Duplicate (BKK0063-DUP1)						Source: 22J0489-01 Prepared: 02-Nov-2022 Analyzed: 03-Nov-2022 12:55				
pH	8.13	0.01	0.01	pH Units	7.72	5.17	20			



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Reported:
08-Nov-2022 19:07

Certified Analyses included in this Report

Analyte	Certifications
EPA 6020B in Solid	
Arsenic-75a	ADEC,DoD-ELAP,WADOE,NELAP
Arsenic-75b	ADEC,DoD-ELAP,WADOE
Lead-208	NELAP,DoD-ELAP,WADOE,ADEC
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP
NWTPH-Dx in Solid	
Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE
NWTPH-HCID in Solid	
Gasoline Range Organics (Tol-C12)	NELAP,DoD-ELAP,WADOE
Diesel Range Organics (C12-C24)	NELAP,DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C38)	NELAP,DoD-ELAP,WADOE



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
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Reported:
08-Nov-2022 19:07

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
08-Nov-2022 19:07

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

10 November 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22K0029

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2022.11.10
09:02:10 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-294A-103122	22K0029-01	Solid	31-Oct-2022 14:40	01-Nov-2022 16:55
SO-TC-294B-103122	22K0029-02	Solid	31-Oct-2022 14:50	01-Nov-2022 16:55
SO-TC-294C-103122	22K0029-03	Solid	31-Oct-2022 15:00	01-Nov-2022 16:55



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:01

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22K0029

Sample receipt

Samples as listed on the preceding page were received 01-Nov-2022 16:55 under ARI work order 22K0029. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

Hydrocarbon Identification (HCID) - WA-Ecology Method NW-HCID

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits except as flagged.

The method blank(s) were clean at the reporting limits.

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:01

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PGRC

Project Name: Superior Plaster

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 22K0029

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1655 1727

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: J009788

Cooler Accepted by: JS Date: 11/6/12 Time: 1655

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

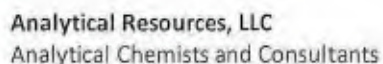
Samples Logged by: JS Date: 11/6/12 Time: 1712 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

Completed by: SA Date: 11/9/02 Time: 1655

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:01

SO-TC-294A-103122
22K0029-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/31/2022 14:40

Instrument: FID4 Analyst: AA

Analyzed: 11/04/2022 03:05

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 10 g (wet)	Extract ID: 22K0029-01 A 02
	Preparation Batch: BKK0056	Final Volume: 10 mL	Dry Weight: 6.97 g
	Prepared: 11/02/2022		% Solids: 69.66

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	71.8	100	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	144	335	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	101	%	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:01

SO-TC-294A-103122
22K0029-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/31/2022 14:40

Instrument: FID3 Analyst: AA

Analyzed: 11/03/2022 15:25

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKK0055
Prepared: 11/02/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22K0029-01 A 01
Dry Weight: 6.97 g
% Solids: 69.66

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	14	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	36	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	72	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	113	%	
Surrogate: n-Triacontane			50-150 %	110	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:01

SO-TC-294A-103122
22K0029-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 10/31/2022 14:40

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/09/2022 04:09

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0029-01 A 04

Preparation Batch: BKK0137

Sample Size: 25 mL (wet)

Prepared: 11/04/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.21	mg/L	
Lead	7439-92-1	200	0.01	0.02	1.18	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:01

SO-TC-294A-103122
22K0029-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/31/2022 14:40

Instrument: Accumet AB150 Analyst: BF

Analyzed: 11/03/2022 12:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0029-01 A

Preparation Batch: BKK0063

Sample Size: 20.37 g (wet)

Prepared: 11/02/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.53	pH Units	



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Reported:
10-Nov-2022 09:01

SO-TC-294B-103122
22K0029-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/31/2022 14:50

Instrument: FID4 Analyst: AA

Analyzed: 11/04/2022 03:25

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 10.01 g (wet)	Extract ID: 22K0029-02 A 02
	Preparation Batch: BKK0056	Final Volume: 10 mL	Dry Weight: 6.92 g
	Prepared: 11/02/2022		% Solids: 69.13

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	72.3	79.9	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	145	301	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	95.5	%	



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Reported:
10-Nov-2022 09:01

SO-TC-294B-103122
22K0029-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/31/2022 14:50

Instrument: FID3 Analyst: AA

Analyzed: 11/03/2022 15:46

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKK0055
Prepared: 11/02/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22K0029-02 A 01
Dry Weight: 6.91 g
% Solids: 69.13

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	14	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	36	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	72	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	112	%	
Surrogate: n-Triacontane			50-150 %	110	%	



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Reported:
10-Nov-2022 09:01

SO-TC-294B-103122
22K0029-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 10/31/2022 14:50

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/09/2022 04:13

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0029-02 A 04

Preparation Batch: BKK0137

Sample Size: 25 mL (wet)

Prepared: 11/04/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.45	mg/L	
Lead	7439-92-1	200	0.01	0.02	1.43	mg/L	



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Reported:
10-Nov-2022 09:01

SO-TC-294B-103122
22K0029-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/31/2022 14:50

Instrument: Accumet AB150 Analyst: BF

Analyzed: 11/03/2022 12:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0029-02 A

Preparation Batch: BKK0063

Sample Size: 20.32 g (wet)

Prepared: 11/02/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.18	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:01

SO-TC-294C-103122
22K0029-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/31/2022 15:00

Instrument: FID4 Analyst: AA

Analyzed: 11/04/2022 03:44

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 10.03 g (wet)	Extract ID: 22K0029-03 A 02
	Preparation Batch: BKK0056	Final Volume: 10 mL	Dry Weight: 6.87 g
	Prepared: 11/02/2022		% Solids: 68.48

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	72.8	92.9	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	146	340	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	93.2	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
10-Nov-2022 09:01

SO-TC-294C-103122
22K0029-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/31/2022 15:00

Instrument: FID3 Analyst: AA

Analyzed: 11/03/2022 16:07

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKK0055
Prepared: 11/02/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22K0029-03 A 01
Dry Weight: 6.85 g
% Solids: 68.48

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	37	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	73	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	106	%	
Surrogate: n-Triacontane			50-150 %	104	%	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:01

SO-TC-294C-103122
22K0029-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 10/31/2022 15:00

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/09/2022 04:16

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0029-03 A 04

Preparation Batch: BKK0137

Sample Size: 25 mL (wet)

Prepared: 11/04/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.08	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.35	mg/L	



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Reported:
10-Nov-2022 09:01

SO-TC-294C-103122
22K0029-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/31/2022 15:00

Instrument: Accumet AB150 Analyst: BF

Analyzed: 11/03/2022 12:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0029-03 A

Preparation Batch: BKK0063

Sample Size: 20.63 g (wet)

Prepared: 11/02/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.51	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:01

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKK0055 - NWTPH-HCID

Instrument: FID3 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0055-BLK1)		Prepared: 02-Nov-2022 Analyzed: 03-Nov-2022 14:01							
Gasoline Range Organics (Tol-C12)	ND	10	mg/kg						U
Diesel Range Organics (C12-C24)	ND	25	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	50	mg/kg						U
Surrogate: o-Terphenyl	5.40		mg/kg	11.3	48.0	50-150			*
Surrogate: n-Triacontane	5.70		mg/kg	11.3	50.7	50-150			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:01

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKK0056 - NWTPH-Dx

Instrument: FID4 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0056-BLK1)		Prepared: 02-Nov-2022 Analyzed: 04-Nov-2022 01:27								
Diesel Range Organics (C12-C24)	ND	50.0	mg/kg							U
Motor Oil Range Organics (C24-C38)	ND	100	mg/kg							U
Surrogate: o-Terphenyl	60.1		mg/kg	56.3		107	50-150			
LCS (BKK0056-BS1)		Prepared: 02-Nov-2022 Analyzed: 04-Nov-2022 01:46								
Diesel Range Organics (C12-C24)	1420	50.0	mg/kg	1500		94.4	63-120			
Surrogate: o-Terphenyl	56.0		mg/kg	56.3		99.6	50-150			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:01

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKK0137 - EPA 6020B

Instrument: ICPMS1 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0137-BLK1)						Prepared: 04-Nov-2022 Analyzed: 08-Nov-2022 22:45					
Arsenic	75a	ND	0.006	0.04	mg/L						U
Lead	208	ND	0.01	0.02	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:01

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKK0063 - EPA 9045D

Instrument: Accumet AB150 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BKK0063-BS1)									
Prepared: 02-Nov-2022 Analyzed: 03-Nov-2022 12:55									
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8		



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Project: Superlon Plastics
Project Number: SLON
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Reported:
10-Nov-2022 09:01

Certified Analyses included in this Report

Analyte	Certifications
EPA 6020B in Solid	
Arsenic-75a	ADEC,DoD-ELAP,WADOE,NELAP
Arsenic-75b	ADEC,DoD-ELAP,WADOE
Lead-208	NELAP,DoD-ELAP,WADOE,ADEC
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP
NWTPH-Dx in Solid	
Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE
NWTPH-HCID in Solid	
Gasoline Range Organics (Tol-C12)	NELAP,DoD-ELAP,WADOE
Diesel Range Organics (C12-C24)	NELAP,DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C38)	NELAP,DoD-ELAP,WADOE



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
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Reported:
10-Nov-2022 09:01

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:01

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

10 November 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22K0030

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2022.11.10
08:57:57 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22 K0030	Turn-around Requested: 3 DAY	Date: 11/1/2022
ARI Client Company: PERC	Phone: 4253460921	Page: of
Client Contact: Kenny King		No. of Coolers: Cooler Temps: 17.7



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments			
Client Project #: SLON		Samplers: KING			TCLP 1311 As/Pb Only	pH 9045C	NWTPH-H CID	NW-TPH- Dx								
Sample ID	Date	Time	Matrix	No. Containers												
SO-TC-295A-110122	11/01/22	09:50	SOIL	1	✓	✓	✓	✓								
SO-TC-295B-110122	11/01/22	10:00	SOIL	1	✓	✓	✓	✓								
SO-TC-295C-110122	11/01/22	10:10	SOIL	1	✓	✓	✓	✓								
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>				Received by: (Signature) <i>Isaac Walter</i>				Relinquished by: (Signature)		Received by: (Signature)	
					Printed Name: Kenny King				Printed Name: Isaac Walter				Printed Name:		Printed Name:	
					Company: PERC				Company: ARI				Company:		Company:	
					Date & Time: 11/1/2022 16:55				Date & Time: 11/1/2022 16:55				Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSSDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-295A-110122	22K0030-01	Solid	01-Nov-2022 09:50	01-Nov-2022 16:55
SO-TC-295B-110122	22K0030-02	Solid	01-Nov-2022 10:00	01-Nov-2022 16:55
SO-TC-295C-110122	22K0030-03	Solid	01-Nov-2022 10:10	01-Nov-2022 16:55



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22K0030

Sample receipt

Samples as listed on the preceding page were received 01-Nov-2022 16:55 under ARI work order 22K0030. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

Hydrocarbon Identification (HCID) - WA-Ecology Method NW-HCID

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Cooler Receipt Form

ARI Client: PGRC

Project Name: Spurlock Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 22Kou 30

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES YES NO

Were custody papers properly filled out (ink, signed, etc.) YES YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1655

177

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 3009708

Cooler Accepted by: TSW

Date: 11/6/22

Time: 1655

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES YES NO

Were all bottle labels complete and legible? YES YES NO

Did the number of containers listed on COC match with the number of containers received? YES YES NO

Did all bottle labels and tags agree with custody papers? YES YES NO

Were all bottles used correct for the requested analyses? YES YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

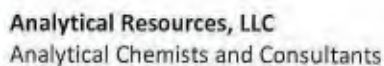
Samples Logged by: TSW Date: 11/6/22 Time: 1715 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 2210030

Cooler#: _____

Temperature(°C): 17.7

Sample ID	Bottle Count	Bottle Type
Samples received above 6c		

Cooler#: _____

Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Cooler#: _____

Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Cooler#: _____

Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Completed by: SSA Date: 11/6/22 Time: 1655

00070F

Cooler Temperature Compliance Form

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

SO-TC-295A-110122
22K0030-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/01/2022 09:50

Instrument: FID4 Analyst: AA

Analyzed: 11/04/2022 04:43

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave)
Preparation Batch: BKK0056
Prepared: 11/02/2022

Sample Size: 10 g (wet)
Final Volume: 10 mL

Extract ID: 22K0030-01 A 02
Dry Weight: 6.83 g
% Solids: 68.35

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	73.2	118	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	146	373	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	103	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

SO-TC-295A-110122
22K0030-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/01/2022 09:50

Instrument: FID3 Analyst: AA

Analyzed: 11/03/2022 16:28

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex) Extract ID: 22K0030-01 A 01
Preparation Batch: BKK0055 Sample Size: 10 g (wet) Dry Weight: 6.83 g
Prepared: 11/02/2022 Final Volume: 5 mL % Solids: 68.35

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	37	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	73	DET	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	107	%	
Surrogate: n-Triacontane			50-150 %	102	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

SO-TC-295A-110122
22K0030-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/01/2022 09:50

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/09/2022 04:19

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0030-01 A 04

Preparation Batch: BKK0137

Sample Size: 25 mL (wet)

Prepared: 11/04/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.09	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.17	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
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Reported:
10-Nov-2022 08:55

SO-TC-295A-110122
22K0030-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/01/2022 09:50

Instrument: Accumet AB150 Analyst: BF

Analyzed: 11/03/2022 12:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0030-01 A

Preparation Batch: BKK0063

Sample Size: 20.72 g (wet)

Prepared: 11/02/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.51	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

SO-TC-295B-110122
22K0030-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/01/2022 10:00

Instrument: FID4 Analyst: AA

Analyzed: 11/04/2022 05:03

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 10.01 g (wet)	Extract ID: 22K0030-02 A 02
	Preparation Batch: BKK0056	Final Volume: 10 mL	Dry Weight: 6.99 g
	Prepared: 11/02/2022		% Solids: 69.79

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	71.6	88.3	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	143	306	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	99.7	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

SO-TC-295B-110122
22K0030-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/01/2022 10:00

Instrument: FID3 Analyst: AA

Analyzed: 11/03/2022 16:49

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex) Extract ID: 22K0030-02 A 01
Preparation Batch: BKK0055 Sample Size: 10 g (wet) Dry Weight: 6.98 g
Prepared: 11/02/2022 Final Volume: 5 mL % Solids: 69.79

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	14	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	36	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	72	DET	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	110	%	
Surrogate: n-Triacontane			50-150 %	104	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

SO-TC-295B-110122
22K0030-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/01/2022 10:00

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/09/2022 04:23

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0030-02 A 04

Preparation Batch: BKK0137

Sample Size: 25 mL (wet)

Prepared: 11/04/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.12	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.68	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

SO-TC-295B-110122
22K0030-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/01/2022 10:00

Instrument: Accumet AB150 Analyst: BF

Analyzed: 11/03/2022 12:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0030-02 A

Preparation Batch: BKK0063

Sample Size: 20.02 g (wet)

Prepared: 11/02/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.43	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

SO-TC-295C-110122
22K0030-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/01/2022 10:10

Instrument: FID4 Analyst: AA

Analyzed: 11/04/2022 05:23

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 10.01 g (wet)	Extract ID: 22K0030-03 A 02
	Preparation Batch: BKK0056	Final Volume: 10 mL	Dry Weight: 6.54 g
	Prepared: 11/02/2022		% Solids: 65.33

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	76.5	113	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	153	367	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	98.8	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

SO-TC-295C-110122
22K0030-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/01/2022 10:10

Instrument: FID3 Analyst: AA

Analyzed: 11/03/2022 17:10

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex) Extract ID: 22K0030-03 A 01
Preparation Batch: BKK0055 Sample Size: 10 g (wet) Dry Weight: 6.53 g
Prepared: 11/02/2022 Final Volume: 5 mL % Solids: 65.33

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	38	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	77	DET	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	112	%	
Surrogate: n-Triacontane			50-150 %	106	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

SO-TC-295C-110122
22K0030-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/01/2022 10:10

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/09/2022 04:28

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0030-03 A 04

Preparation Batch: BKK0137

Sample Size: 25 mL (wet)

Prepared: 11/04/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.11	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.28	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

SO-TC-295C-110122
22K0030-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/01/2022 10:10

Instrument: Accumet AB150 Analyst: BF

Analyzed: 11/03/2022 12:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0030-03 A

Preparation Batch: BKK0063

Sample Size: 20.44 g (wet)

Prepared: 11/02/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.31	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKK0055 - NWTPH-HCID

Instrument: FID3 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0055-BLK1)		Prepared: 02-Nov-2022 Analyzed: 03-Nov-2022 14:01							
Gasoline Range Organics (Tol-C12)	ND	10	mg/kg						U
Diesel Range Organics (C12-C24)	ND	25	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	50	mg/kg						U
Surrogate: o-Terphenyl	5.40		mg/kg	11.3	48.0	50-150			*
Surrogate: n-Triacontane	5.70		mg/kg	11.3	50.7	50-150			



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8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKK0056 - NWTPH-Dx

Instrument: FID4 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0056-BLK1)		Prepared: 02-Nov-2022 Analyzed: 04-Nov-2022 01:27								
Diesel Range Organics (C12-C24)	ND	50.0	mg/kg							U
Motor Oil Range Organics (C24-C38)	ND	100	mg/kg							U
Surrogate: o-Terphenyl	60.1		mg/kg	56.3		107	50-150			
LCS (BKK0056-BS1)		Prepared: 02-Nov-2022 Analyzed: 04-Nov-2022 01:46								
Diesel Range Organics (C12-C24)	1420	50.0	mg/kg	1500		94.4	63-120			
Surrogate: o-Terphenyl	56.0		mg/kg	56.3		99.6	50-150			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKK0137 - EPA 6020B

Instrument: ICPMS1 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0137-BLK1)						Prepared: 04-Nov-2022 Analyzed: 08-Nov-2022 22:45					
Arsenic	75a	ND	0.006	0.04	mg/L						U
Lead	208	ND	0.01	0.02	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKK0063 - EPA 9045D

Instrument: Accumet AB150 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BKK0063-BS1)									
Prepared: 02-Nov-2022 Analyzed: 03-Nov-2022 12:55									
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8		



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8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

Certified Analyses included in this Report

Analyte	Certifications
EPA 6020B in Solid	
Arsenic-75a	ADEC,DoD-ELAP,WADOE,NELAP
Arsenic-75b	ADEC,DoD-ELAP,WADOE
Lead-208	NELAP,DoD-ELAP,WADOE,ADEC
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP
NWTPH-Dx in Solid	
Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE
NWTPH-HCID in Solid	
Gasoline Range Organics (Tol-C12)	NELAP,DoD-ELAP,WADOE
Diesel Range Organics (C12-C24)	NELAP,DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C38)	NELAP,DoD-ELAP,WADOE



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 08:55

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

10 November 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22K0031

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly Fishel
Date: 2022.11.10 09:09:25
-08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22K0031	Turn-around Requested: 3 DAY	Date: 11/1/2022
ARI Client Company: PERC	Phone: 4253460921	Page: of
Client Contact: Kenny King		No. of Coolers: Cooler Temps: 17.7



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested					Notes/Comments		
Client Project #: SLON		Samplers: KING			TCLP 1311 As/Pb Only	pH 9045C	NWTPH-H CID	NW-TPH- Dx				
Sample ID	Date	Time	Matrix	No. Containers								
SO-TC-296A-110122	11/01/22	13:50	SOIL	1	✓	✓	✓	✓				
SO-TC-296B-110122	11/01/22	14:00	SOIL	1	✓	✓	✓	✓				
SO-TC-296C-110122	11/01/22	14:10	SOIL	1	✓	✓	✓	✓				
Comments/Special Instructions					Relinquished by: (Signature) Kenny King		Received by: (Signature) Jacob Walker		Relinquished by: (Signature)		Received by: (Signature)	
					Printed Name: Kenny King		Printed Name: Jacob Walker		Printed Name:		Printed Name:	
					Company: PERC		Company: ARZ		Company:		Company:	
					Date & Time: 11/1/2022 16:55		Date & Time: 11/1/22 1655		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-296A-110122	22K0031-01	Solid	01-Nov-2022 13:50	01-Nov-2022 16:55
SO-TC-296B-110122	22K0031-02	Solid	01-Nov-2022 14:00	01-Nov-2022 16:55
SO-TC-296C-110122	22K0031-03	Solid	01-Nov-2022 14:10	01-Nov-2022 16:55



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22K0031

Sample receipt

Samples as listed on the preceding page were received 01-Nov-2022 16:55 under ARI work order 22K0031. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

Hydrocarbon Identification (HCID) - WA-Ecology Method NW-HCID

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits except as flagged.

The method blank(s) were clean at the reporting limits.

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Spectra Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 22K0031

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1655

1717

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 3009205

Cooler Accepted by: JS

Date: 11/6/12

Time: 1655

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JS Date: 11/6/12 Time: 1717 Labels checked by: JS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 22K0031

Cooler#: _____ Temperature(°C): 17.7

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: [Signature] Date: 11/6/22 Time: 1655



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

SO-TC-296A-110122
22K0031-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/01/2022 13:50

Instrument: FID4 Analyst: AA

Analyzed: 11/04/2022 05:43

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 10.02 g (wet)	Extract ID: 22K0031-01 A 02
	Preparation Batch: BKK0056	Final Volume: 10 mL	Dry Weight: 6.54 g
	Prepared: 11/02/2022		% Solids: 65.29

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	76.4	108	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	153	389	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	99.6	%	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
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Reported:
10-Nov-2022 09:06

SO-TC-296A-110122
22K0031-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/01/2022 13:50

Instrument: FID3 Analyst: AA

Analyzed: 11/03/2022 17:31

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 3580A (Vortex)

Extract ID: 22K0031-01 A 01

Preparation Batch: BKK0055

Sample Size: 10 g (wet)

Dry Weight: 6.53 g

Prepared: 11/02/2022

Final Volume: 5 mL

% Solids: 65.29

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	38	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	77	DET	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	109	%	
Surrogate: n-Triacontane			50-150 %	105	%	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

SO-TC-296A-110122
22K0031-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/01/2022 13:50

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/09/2022 04:44

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0031-01 A 04

Preparation Batch: BKK0137

Sample Size: 25 mL (wet)

Prepared: 11/04/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.14	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.88	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

SO-TC-296A-110122
22K0031-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/01/2022 13:50

Instrument: Accumet AB150 Analyst: BF

Analyzed: 11/03/2022 12:55

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 9045D
Preparation Batch: BKK0063
Prepared: 11/02/2022

Sample Size: 20.26 g (wet)
Final Volume: 20 mL

Extract ID: 22K0031-01 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.43	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

SO-TC-296B-110122
22K0031-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/01/2022 14:00

Instrument: FID4 Analyst: AA

Analyzed: 11/04/2022 06:02

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 10.06 g (wet)	Extract ID: 22K0031-02 A 02
	Preparation Batch: BKK0056	Final Volume: 10 mL	Dry Weight: 6.82 g
	Prepared: 11/02/2022		% Solids: 67.80

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	73.3	116	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	147	415	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	105	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

SO-TC-296B-110122
22K0031-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/01/2022 14:00

Instrument: FID3 Analyst: AA

Analyzed: 11/03/2022 17:52

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKK0055
Prepared: 11/02/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22K0031-02 A 01
Dry Weight: 6.78 g
% Solids: 67.80

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	37	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	74	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	110	%	
Surrogate: n-Triacontane			50-150 %	108	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

SO-TC-296B-110122
22K0031-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/01/2022 14:00

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/09/2022 04:48

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0031-02 A 04

Preparation Batch: BKK0137

Sample Size: 25 mL (wet)

Prepared: 11/04/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.10	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.22	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

SO-TC-296B-110122
22K0031-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/01/2022 14:00

Instrument: Accumet AB150 Analyst: BF

Analyzed: 11/03/2022 12:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0031-02 A

Preparation Batch: BKK0063

Sample Size: 20.7 g (wet)

Prepared: 11/02/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.14	pH Units	



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8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

SO-TC-296C-110122
22K0031-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/01/2022 14:10

Instrument: FID4 Analyst: AA

Analyzed: 11/04/2022 06:22

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 10.03 g (wet)	Extract ID: 22K0031-03 A 02
	Preparation Batch: BKK0056	Final Volume: 10 mL	Dry Weight: 7.04 g
	Prepared: 11/02/2022		% Solids: 70.15

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	71.1	87.1	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	142	306	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	94.0	%	



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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

SO-TC-296C-110122
22K0031-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/01/2022 14:10

Instrument: FID3 Analyst: AA

Analyzed: 11/03/2022 18:13

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3580A (Vortex)	Sample Size: 10 g (wet)	Extract ID: 22K0031-03 A 01
	Preparation Batch: BKK0055	Final Volume: 5 mL	Dry Weight: 7.02 g
	Prepared: 11/02/2022		% Solids: 70.15

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	14	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	36	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	71	ND	mg/kg	U
<i>Surrogate: o-Terphenyl</i>			50-150 %	112	%	
<i>Surrogate: n-Triacontane</i>			50-150 %	110	%	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

SO-TC-296C-110122
22K0031-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/01/2022 14:10

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/09/2022 04:51

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0031-03 A 04

Preparation Batch: BKK0137

Sample Size: 25 mL (wet)

Prepared: 11/04/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.09	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.48	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

SO-TC-296C-110122
22K0031-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/01/2022 14:10

Instrument: Accumet AB150 Analyst: BF

Analyzed: 11/03/2022 12:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0031-03 A

Preparation Batch: BKK0063

Sample Size: 20.71 g (wet)

Prepared: 11/02/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.32	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKK0055 - NWTPH-HCID

Instrument: FID3 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0055-BLK1)		Prepared: 02-Nov-2022 Analyzed: 03-Nov-2022 14:01							
Gasoline Range Organics (Tol-C12)	ND	10	mg/kg						U
Diesel Range Organics (C12-C24)	ND	25	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	50	mg/kg						U
Surrogate: o-Terphenyl	5.40		mg/kg	11.3	48.0	50-150			*
Surrogate: n-Triacontane	5.70		mg/kg	11.3	50.7	50-150			



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKK0056 - NWTPH-Dx

Instrument: FID4 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0056-BLK1) Prepared: 02-Nov-2022 Analyzed: 04-Nov-2022 01:27									
Diesel Range Organics (C12-C24)	ND	50.0	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	100	mg/kg						U
Surrogate: o-Terphenyl	60.1		mg/kg	56.3	107	50-150			
LCS (BKK0056-BS1) Prepared: 02-Nov-2022 Analyzed: 04-Nov-2022 01:46									
Diesel Range Organics (C12-C24)	1420	50.0	mg/kg	1500	94.4	63-120			
Surrogate: o-Terphenyl	56.0		mg/kg	56.3	99.6	50-150			



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKK0137 - EPA 6020B

Instrument: ICPMS1 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0137-BLK1)						Prepared: 04-Nov-2022 Analyzed: 08-Nov-2022 22:45					
Arsenic	75a	ND	0.006	0.04	mg/L						U
Lead	208	ND	0.01	0.02	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKK0063 - EPA 9045D

Instrument: Accumet AB150 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BKK0063-BS1)									
Prepared: 02-Nov-2022 Analyzed: 03-Nov-2022 12:55									
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8		



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

Certified Analyses included in this Report

Analyte	Certifications
EPA 6020B in Solid	
Arsenic-75a	ADEC,DoD-ELAP,WADOE,NELAP
Arsenic-75b	ADEC,DoD-ELAP,WADOE
Lead-208	NELAP,DoD-ELAP,WADOE,ADEC
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP
NWTPH-Dx in Solid	
Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE
NWTPH-HCID in Solid	
Gasoline Range Organics (Tol-C12)	NELAP,DoD-ELAP,WADOE
Diesel Range Organics (C12-C24)	NELAP,DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C38)	NELAP,DoD-ELAP,WADOE



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023



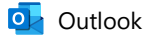
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2022 09:06

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Five data packages for your review and approval

From EH SolidWaste <EHSolidWaste@tpchd.org>
Date Wed 11/23/2022 12:17 PM
To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc kking@perc-nw.com <kking@perc-nw.com>

Hi Jeff,

I have reviewed this data and these soils are appropriate for disposal under **WDA 2625R**.

Thank you and Happy Holidays to you too!

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
 Environmental Health
 (253) 405-8604 c • kjohnston@tpchd.org
 (253) 649-1840 o • www.tpchd.org



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We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>
Sent: Tuesday, November 22, 2022 11:39 AM
To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc: 'kking@perc-nw.com' <kking@perc-nw.com>
Subject: Five data packages for your review and approval

CAUTION: External Email

Keith:

Attached are five data packages for your review and approval under the permit for the Superlon Plastics site (WDA Permit number 2526R). Each of the samples are from sediment/soil collected in the ditch adjacent to the Superlon Plastics site and represent approximately 23 CY of sediment/soil. The following table lists the data.

SAMPLE ID	TCLP (mg/L)		NWTPh-Dx		NWTPh-HCID			pH	Request
	Arsenic Concentration	Lead Concentration	Diesel Range Organics	Motor Oil Range Organics	Gasoline Range Organics	Diesel Range Organics	Motor Oil Range Organics		
SO-TC-293A-103122	0.2	1.2	82.7	261	ND	ND	ND	8.28	Asking for approval
SO-TC-293B-103122	0.1	0.26	123	503	ND	ND	ND	8.49	Asking for approval
SO-TC-293C-103122	0.41	1.65	87.7	294	ND	ND	ND	8.23	Asking for approval
SO-TC-297A-110222	0.12	0.87	96.1	273	ND	ND	DET	8.67	Asking for approval
SO-TC-297B-110222	0.47	1.71	192	610	ND	ND	ND	8.1	Asking for approval
SO-TC-297C-110222	0.02	ND	161	687	ND	ND	ND	8.8	Asking for approval
SO-TC-298A-110222	0.08	0.53	135	378	ND	ND	ND	8.93	Asking for approval
SO-TC-298B-110222	0.12	0.84	104	293	ND	ND	ND	8.99	Asking for approval
SO-TC-298C-110222	0.25	1.68	153	355	ND	DET	ND	8.76	Asking for approval
SO-TC-299A-110322	0.05	0.07	ND	167	ND	ND	ND	9.03	Asking for approval
SO-TC-299B-110322	0.18	0.72	110	280	ND	ND	ND	8.72	Asking for approval
SO-TC-299C-110322	0.08	0.38	ND	151	ND	ND	ND	8.83	Asking for approval
SO-TC-300A-110322	0.09	0.48	ND	239	ND	ND	ND	8.48	Asking for approval
SO-TC-300B-110322	0.06	0.02	ND	180	ND	ND	ND	8.92	Asking for approval
SO-TC-300C-110322	0.05	ND	144	368	ND	ND	ND	8.99	Asking for approval

Thank you and Happy Thanksgiving
 Jeff

Jeffrey D King, PG/LG
President/Geologist
[Pacific Environmental & Redevelopment Corporation \(PERC\)](#)
8424 E Meadow Lake Drive
Snohomish, WA 98290
425.238.2212
jking@perc-nw.com

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Analytical Resources, LLC
Analytical Chemists and Consultants

12 November 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22K0028

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2022.11.12
08:49:51 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 22K0028		Turn-around Requested: 3 DAY		Date: 10/31/2022		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 4253460921		Page: of									
Client Contact: Kenny King				No. of Coolers: Cooler Temps: 17.7									
Client Project Name: Superlon Plastics				Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: KING		TCLP 1311 As/Pb Only	pH 9045C	NWTPH-H CID	NW-TPH-Dx						
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-293A-103122	10/31/22	10:50	SOIL	1	✓	✓	✓	✓					
SO-TC-293B-103122	10/31/22	11:00	SOIL	1	✓	✓	✓	✓					
SO-TC-293C-103122	10/31/22	11:10	SOIL	1	✓	✓	✓	✓					
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Jacob Walter</i>		Relinquished by: (Signature)		Received by: (Signature)			
				Printed Name: <i>Kenny King</i>		Printed Name: <i>Jacob Walter</i>		Printed Name:		Printed Name:			
				Company: <i>PERC</i>		Company: <i>ART</i>		Company:		Company:			
				Date & Time: <i>11/1/2022 16:55</i>		Date & Time: <i>11/1/2022 16:55</i>		Date & Time:		Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2022 08:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-293A-103122	22K0028-01	Solid	31-Oct-2022 10:50	01-Nov-2022 16:55
SO-TC-293B-103122	22K0028-02	Solid	31-Oct-2022 11:00	01-Nov-2022 16:55
SO-TC-293C-103122	22K0028-03	Solid	31-Oct-2022 11:10	01-Nov-2022 16:55



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2022 08:48

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22K0028

Sample receipt

Samples as listed on the preceding page were received 01-Nov-2022 16:55 under ARI work order 22K0028. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

Hydrocarbon Identification (HCID) - WA-Ecology Method NW-HCID

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits except as flagged.

The method blank(s) were clean at the reporting limits.

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2022 08:48

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PGRC

Project Name: Speaker Phisters

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 22K0028

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2,0-6,0 °C for chemistry)

Time 1655 1727

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: J009788

Cooler Accepted by: JSN Date: 11/6/22 Time: 1655

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

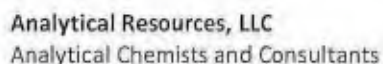
Samples Logged by: JSN Date: 11/1/22 Time: 1701 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: SB Date: 11/6/23 Time: 1655

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2022 08:48

SO-TC-293A-103122
22K0028-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/31/2022 10:50

Instrument: FID4 Analyst: AA

Analyzed: 11/04/2022 02:06

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 10.01 g (wet)	Extract ID: 22K0028-01 A 02
	Preparation Batch: BKK0056	Final Volume: 10 mL	Dry Weight: 7.31 g
	Prepared: 11/02/2022		% Solids: 73.05

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	68.4	82.7	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	137	261	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	101	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2022 08:48

SO-TC-293A-103122
22K0028-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/31/2022 10:50

Instrument: FID3 Analyst: AA

Analyzed: 11/03/2022 14:22

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKK0055
Prepared: 11/02/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22K0028-01 A 01
Dry Weight: 7.31 g
% Solids: 73.05

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	14	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	34	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	68	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	49.3	%	*
Surrogate: n-Triacontane			50-150 %	46.7	%	*



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2022 08:48

SO-TC-293A-103122
22K0028-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 10/31/2022 10:50

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/09/2022 03:59

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0028-01 A 04

Preparation Batch: BKK0137

Sample Size: 25 mL (wet)

Prepared: 11/04/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	200	0.006	0.04	0.20	mg/L	
Lead	7439-92-1	200	0.01	0.02	1.20	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2022 08:48

SO-TC-293A-103122
22K0028-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/31/2022 10:50

Instrument: Accumet AB150 Analyst: BF

Analyzed: 11/03/2022 12:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0028-01 A

Preparation Batch: BKK0063

Sample Size: 20.77 g (wet)

Prepared: 11/02/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.28	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2022 08:48

SO-TC-293B-103122
22K0028-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/31/2022 11:00

Instrument: FID4 Analyst: AA

Analyzed: 11/04/2022 02:26

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 10.03 g (wet)	Extract ID: 22K0028-02 A 02
	Preparation Batch: BKK0056	Final Volume: 10 mL	Dry Weight: 6.58 g
	Prepared: 11/02/2022		% Solids: 65.58

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	76.0	123	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	152	503	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	102	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2022 08:48

SO-TC-293B-103122
22K0028-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/31/2022 11:00

Instrument: FID3 Analyst: AA

Analyzed: 11/03/2022 14:43

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKK0055
Prepared: 11/02/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22K0028-02 A 01
Dry Weight: 6.56 g
% Solids: 65.58

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	38	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	76	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	112	%	
Surrogate: n-Triacontane			50-150 %	109	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2022 08:48

SO-TC-293B-103122
22K0028-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 10/31/2022 11:00

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/09/2022 04:03

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0028-02 A 04

Preparation Batch: BKK0137

Sample Size: 25 mL (wet)

Prepared: 11/04/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.10	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.26	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
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Reported:
12-Nov-2022 08:48

SO-TC-293B-103122
22K0028-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/31/2022 11:00

Instrument: Accumet AB150 Analyst: BF

Analyzed: 11/03/2022 12:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0028-02 A

Preparation Batch: BKK0063

Sample Size: 20.54 g (wet)

Prepared: 11/02/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.49	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2022 08:48

SO-TC-293C-103122
22K0028-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 10/31/2022 11:10

Instrument: FID4 Analyst: AA

Analyzed: 11/04/2022 02:45

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 10 g (wet)	Extract ID: 22K0028-03 A 02
	Preparation Batch: BKK0056	Final Volume: 10 mL	Dry Weight: 5.96 g
	Prepared: 11/02/2022		% Solids: 59.62

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	83.9	87.7	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	168	294	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	102	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2022 08:48

SO-TC-293C-103122
22K0028-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 10/31/2022 11:10

Instrument: FID3 Analyst: AA

Analyzed: 11/03/2022 15:04

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3580A (Vortex)	Sample Size: 10 g (wet)	Extract ID: 22K0028-03 A 01
	Preparation Batch: BKK0055	Final Volume: 5 mL	Dry Weight: 5.96 g
	Prepared: 11/02/2022		% Solids: 59.62

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	17	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	42	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	84	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	113	%	
Surrogate: n-Triacontane			50-150 %	109	%	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2022 08:48

SO-TC-293C-103122
22K0028-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 10/31/2022 11:10

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/10/2022 19:23

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0028-03 A 04

Preparation Batch: BKK0137

Sample Size: 25 mL (wet)

Prepared: 11/04/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.41	mg/L	
Lead	7439-92-1	200	0.01	0.02	1.65	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2022 08:48

SO-TC-293C-103122
22K0028-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/31/2022 11:10

Instrument: Accumet AB150 Analyst: BF

Analyzed: 11/03/2022 12:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0028-03 A

Preparation Batch: BKK0063

Sample Size: 20.43 g (wet)

Prepared: 11/02/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.23	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2022 08:48

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKK0055 - NWTPH-HCID

Instrument: FID3 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0055-BLK1)		Prepared: 02-Nov-2022 Analyzed: 03-Nov-2022 14:01							
Gasoline Range Organics (Tol-C12)	ND	10	mg/kg						U
Diesel Range Organics (C12-C24)	ND	25	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	50	mg/kg						U
Surrogate: o-Terphenyl	5.40		mg/kg	11.3	48.0	50-150			*
Surrogate: n-Triacontane	5.70		mg/kg	11.3	50.7	50-150			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2022 08:48

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKK0056 - NWTPH-Dx

Instrument: FID4 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0056-BLK1) Prepared: 02-Nov-2022 Analyzed: 04-Nov-2022 01:27									
Diesel Range Organics (C12-C24)	ND	50.0	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	100	mg/kg						U
Surrogate: o-Terphenyl	60.1		mg/kg	56.3	107	50-150			
LCS (BKK0056-BS1) Prepared: 02-Nov-2022 Analyzed: 04-Nov-2022 01:46									
Diesel Range Organics (C12-C24)	1420	50.0	mg/kg	1500	94.4	63-120			
Surrogate: o-Terphenyl	56.0		mg/kg	56.3	99.6	50-150			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2022 08:48

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKK0137 - EPA 6020B

Instrument: ICPMS1 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0137-BLK1)						Prepared: 04-Nov-2022 Analyzed: 08-Nov-2022 22:45					
Arsenic	75a	ND	0.006	0.04	mg/L						U
Lead	208	ND	0.01	0.02	mg/L						U



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8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Nov-2022 08:48

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKK0063 - EPA 9045D

Instrument: Accumet AB150 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BKK0063-BS1)									
Prepared: 02-Nov-2022 Analyzed: 03-Nov-2022 12:55									
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8		



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Project: Superlon Plastics
Project Number: SLON
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Reported:
12-Nov-2022 08:48

Certified Analyses included in this Report

Analyte	Certifications
EPA 6020B in Solid	
Arsenic-75a	ADEC,DoD-ELAP,WADOE,NELAP
Arsenic-75b	ADEC,DoD-ELAP,WADOE
Lead-208	NELAP,DoD-ELAP,WADOE,ADEC
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP
NWTPH-Dx in Solid	
Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE
NWTPH-HCID in Solid	
Gasoline Range Organics (Tol-C12)	NELAP,DoD-ELAP,WADOE
Diesel Range Organics (C12-C24)	NELAP,DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C38)	NELAP,DoD-ELAP,WADOE



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Reported:
12-Nov-2022 08:48

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
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Reported:
12-Nov-2022 08:48

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

20 November 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22K0058

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by
Shelly Fishel
Date: 2022.11.20
12:19:40 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22K0058		Turn-around Requested: 3 DAY		Date: 11/2/2022		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 4253460921		Page: of					
Client Contact: Kenny King				No. of Coolers: of					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: KING		TCLP 1311 As/Pb Only	pH 9045C	NWTPH-H CID	NW-TPH-Dx		
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-297A-110222	11/02/22	09:00	SOIL	1	✓	✓	✓	✓	
SO-TC-297B-110222	11/02/22	09:10	SOIL	1	✓	✓	✓	✓	
SO-TC-297C-110222	11/02/22	09:20	SOIL	1	✓	✓	✓	✓	
Comments/Special Instructions		Relinquished by:		Received by:		Relinquished by:		Received by:	
		(Signature) <i>Kenny King</i>		(Signature) <i>Roman Miller</i>		(Signature)		(Signature)	
		Printed Name: Kenny King		Printed Name: Roman Miller		Printed Name:		Printed Name:	
		Company: PERC		Company: ARI		Company:		Company:	
Date & Time: 11/2/22 16:34		Date & Time: 11/2/22 1634		Date & Time:		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2022 12:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-297A-110222	22K0058-01	Solid	02-Nov-2022 09:00	02-Nov-2022 16:34
SO-TC-297B-110222	22K0058-02	Solid	02-Nov-2022 09:10	02-Nov-2022 16:34
SO-TC-297C-110222	22K0058-03	Solid	02-Nov-2022 09:20	02-Nov-2022 16:34



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2022 12:18

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22K0058

Sample receipt

Samples as listed on the preceding page were received 02-Nov-2022 16:34 under ARI work order 22K0058. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

Hydrocarbon Identification (HCID) - WA-Ecology Method NW-HCID

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

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Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits. The matrix spike (MS) percent recoveries were within control limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastic

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 22K0058

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 1634 16.3°

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 9708

Cooler Accepted by: R Date: 11/2/22 Time: 1634

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: [Signature] Date: 11/2/22 Time: 16:55 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2022 12:18

SO-TC-297A-110222
22K0058-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/02/2022 09:00

Instrument: FID4 Analyst: AA

Analyzed: 11/04/2022 14:52

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave)
Preparation Batch: BKK0113
Prepared: 11/03/2022

Sample Size: 10.07 g (wet)
Final Volume: 10 mL

Extract ID: 22K0058-01 A 02
Dry Weight: 6.93 g
% Solids: 68.85

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	72.1	96.1	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	144	273	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	100	%	



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Reported:
20-Nov-2022 12:18

SO-TC-297A-110222
22K0058-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/02/2022 09:00

Instrument: FID3 Analyst: AA

Analyzed: 11/04/2022 14:16

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKK0112
Prepared: 11/03/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22K0058-01 A 01
Dry Weight: 6.88 g
% Solids: 68.85

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	36	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	73	DET	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	99.6	%	
Surrogate: n-Triacontane			50-150 %	87.6	%	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2022 12:18

SO-TC-297A-110222
22K0058-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/02/2022 09:00

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/18/2022 05:18

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0058-01 A 04

Preparation Batch: BKK0265

Sample Size: 25 mL (wet)

Prepared: 11/09/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.12	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.87	mg/L	



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Reported:
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SO-TC-297A-110222
22K0058-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/02/2022 09:00

Instrument: Accumet AB150 Analyst: UW

Analyzed: 11/08/2022 17:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0058-01 A 02

Preparation Batch: BKK0244

Sample Size: 20.15 g (wet)

Prepared: 11/08/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.67	pH Units	



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Project: Superlon Plastics
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Reported:
20-Nov-2022 12:18

SO-TC-297B-110222
22K0058-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/02/2022 09:10

Instrument: FID4 Analyst: AA

Analyzed: 11/04/2022 15:12

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 22K0058-02 A 02

Preparation Batch: BKK0113

Sample Size: 10 g (wet)

Dry Weight: 6.71 g

Prepared: 11/03/2022

Final Volume: 10 mL

% Solids: 67.08

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	74.5	192	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	149	610	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	92.1	%	



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Reported:
20-Nov-2022 12:18

SO-TC-297B-110222
22K0058-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/02/2022 09:10

Instrument: FID3 Analyst: AA

Analyzed: 11/04/2022 14:37

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKK0112
Prepared: 11/03/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22K0058-02 A 01
Dry Weight: 6.71 g
% Solids: 67.08

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	37	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	75	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	100	%	
Surrogate: n-Triacontane			50-150 %	91.6	%	



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Reported:
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SO-TC-297B-110222
22K0058-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/02/2022 09:10

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/18/2022 05:13

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0058-02 A 04

Preparation Batch: BKK0265

Sample Size: 25 mL (wet)

Prepared: 11/09/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.47	mg/L	
Lead	7439-92-1	200	0.01	0.02	1.71	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
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Reported:
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SO-TC-297B-110222
22K0058-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/02/2022 09:10

Instrument: Accumet AB150 Analyst: UW

Analyzed: 11/08/2022 17:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0058-02 A 02

Preparation Batch: BKK0244

Sample Size: 20.07 g (wet)

Prepared: 11/08/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.10	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
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Reported:
20-Nov-2022 12:18

SO-TC-297C-110222
22K0058-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/02/2022 09:20

Instrument: FID4 Analyst: AA

Analyzed: 11/04/2022 15:32

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 10.02 g (wet)	Extract ID: 22K0058-03 A 02
	Preparation Batch: BKK0113	Final Volume: 10 mL	Dry Weight: 6.66 g
	Prepared: 11/03/2022		% Solids: 66.46

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	75.1	161	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	150	687	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	94.6	%	



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Reported:
20-Nov-2022 12:18

SO-TC-297C-110222
22K0058-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/02/2022 09:20

Instrument: FID3 Analyst: AA

Analyzed: 11/04/2022 14:58

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKK0112
Prepared: 11/03/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22K0058-03 A 01
Dry Weight: 6.65 g
% Solids: 66.46

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	38	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	75	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	98.7	%	
Surrogate: n-Triacontane			50-150 %	89.3	%	



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Reported:
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SO-TC-297C-110222
22K0058-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/02/2022 09:20

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/18/2022 05:08

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0058-03 A 04

Preparation Batch: BKK0265

Sample Size: 25 mL (wet)

Prepared: 11/09/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.02	mg/L	J
Lead	7439-92-1	200	0.01	0.02	ND	mg/L	U



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Project: Superlon Plastics
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Reported:
20-Nov-2022 12:18

SO-TC-297C-110222
22K0058-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/02/2022 09:20

Instrument: Accumet AB150 Analyst: UW

Analyzed: 11/08/2022 17:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0058-03 A 02

Preparation Batch: BKK0244

Sample Size: 20.04 g (wet)

Prepared: 11/08/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.80	pH Units	



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Project: Superlon Plastics
Project Number: SLON
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Reported:
20-Nov-2022 12:18

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKK0112 - NWTPH-HCID

Instrument: FID3 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0112-BLK1)		Prepared: 03-Nov-2022 Analyzed: 04-Nov-2022 13:55							
Gasoline Range Organics (Tol-C12)	ND	10	mg/kg						U
Diesel Range Organics (C12-C24)	ND	25	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	50	mg/kg						U
Surrogate: o-Terphenyl	11.6		mg/kg	11.3	103	50-150			
Surrogate: n-Triacontane	11.6		mg/kg	11.3	103	50-150			



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Reported:
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Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKK0113 - NWTPH-Dx

Instrument: FID4 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0113-BLK1) Prepared: 03-Nov-2022 Analyzed: 04-Nov-2022 14:12									
Diesel Range Organics (C12-C24)	ND	50.0	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	100	mg/kg						U
Surrogate: o-Terphenyl	61.0		mg/kg	56.3	108	50-150			
LCS (BKK0113-BS1) Prepared: 03-Nov-2022 Analyzed: 04-Nov-2022 14:32									
Diesel Range Organics (C12-C24)	1520	50.0	mg/kg	1500	101	63-120			
Surrogate: o-Terphenyl	62.2		mg/kg	56.3	111	50-150			



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Reported:
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Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKK0265 - EPA 6020B

Instrument: ICPMS1 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0265-BLK1)						Prepared: 09-Nov-2022 Analyzed: 18-Nov-2022 03:50						
Arsenic	75a	ND	0.006	0.04	mg/L							U
Lead	208	ND	0.01	0.02	mg/L							U
Duplicate (BKK0265-DUP1)						Source: 22K0058-01 Prepared: 09-Nov-2022 Analyzed: 18-Nov-2022 05:23						
Arsenic	75a	0.12	0.006	0.04	mg/L		0.12			1.00	20	
Lead	208	0.87	0.01	0.02	mg/L		0.87			0.02	20	
Matrix Spike (BKK0265-MS1)						Source: 22K0058-01 Prepared: 09-Nov-2022 Analyzed: 18-Nov-2022 05:28						
Arsenic	75a	3.97	0.006	0.04	mg/L	4.00	0.12	96.2	75-125			
Lead	208	4.93	0.01	0.02	mg/L	4.00	0.87	101	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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Reported:
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Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKK0244 - EPA 9045D

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BKK0244-BS1)					Prepared: 08-Nov-2022		Analyzed: 08-Nov-2022 17:20			
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8			
Duplicate (BKK0244-DUP1)					Prepared: 08-Nov-2022		Analyzed: 08-Nov-2022 17:20			
pH	8.91	0.01	0.01	pH Units	8.67	2.73	20			



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Certified Analyses included in this Report

Analyte	Certifications
EPA 6020B in Solid	
Arsenic-75a	ADEC,DoD-ELAP,WADOE,NELAP
Arsenic-75b	ADEC,DoD-ELAP,WADOE
Lead-208	NELAP,DoD-ELAP,WADOE,ADEC
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP
NWTPH-Dx in Solid	
Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE
NWTPH-HCID in Solid	
Gasoline Range Organics (Tol-C12)	NELAP,DoD-ELAP,WADOE
Diesel Range Organics (C12-C24)	NELAP,DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C38)	NELAP,DoD-ELAP,WADOE



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Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023



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Reported:
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Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

20 November 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22K0059

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed
by Shelly Fishel
Date: 2022.11.20
12:33:53 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22K0059		Turn-around Requested: 3 DAY		Date: 11/2/2022		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC		Phone: 4253460921		Page: of							
Client Contact: Kenny King				No. of Coolers: Cooler Temps:							
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments			
Client Project #: SLON		Samplers: KING		TCLP 1311 As/Pb Only	pH 9045C	NWTPH-H CID	NW-TPH-Dx				
Sample ID	Date	Time	Matrix	No. Containers							
SO-TC-298A-110222	11/02/22	14:10	SOIL	1	✓	✓	✓	✓			
SO-TC-298B-110222	11/02/22	14:20	SOIL	1	✓	✓	✓	✓			
SO-TC-298C-110222	11/02/22	14:30	SOIL	1	✓	✓	✓	✓			
Comments/Special Instructions				Relinquished by:		Received by:		Relinquished by:		Received by:	
				(Signature) <i>Kenny King</i>		(Signature) <i>R</i>		(Signature)		(Signature)	
				Printed Name: Kenny King		Printed Name: <i>Rowan Miller</i>		Printed Name:		Printed Name:	
				Company: PERC		Company: ARI		Company:		Company:	
				Date & Time: 11/2/2022 16:34		Date & Time: 11/2/22 1634		Date & Time:		Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2022 12:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-298A-110222	22K0059-01	Solid	02-Nov-2022 14:10	02-Nov-2022 16:34
SO-TC-298B-110222	22K0059-02	Solid	02-Nov-2022 14:20	02-Nov-2022 16:34
SO-TC-298C-110222	22K0059-03	Solid	02-Nov-2022 14:30	02-Nov-2022 16:34



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Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22K0059

Sample receipt

Samples as listed on the preceding page were received 02-Nov-2022 16:34 under ARI work order 22K0059. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

Hydrocarbon Identification (HCID) - WA-Ecology Method NW-HCID

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.



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The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): NA
Assigned ARI Job No: 22K0059

Project Name: Superior Plastic
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA
Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 16:34 16:34
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 9708

Cooler Accepted by: NA Date: 11/2/22 Time: 16:34

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: PIA Date: 11/2/22 Time: 17:00 Labels checked by:

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2022 12:32

SO-TC-298A-110222
22K0059-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/02/2022 14:10

Instrument: FID4 Analyst: AA

Analyzed: 11/04/2022 15:52

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 10.04 g (wet)	Extract ID: 22K0059-01 A 02
	Preparation Batch: BKK0113	Final Volume: 10 mL	Dry Weight: 6.65 g
	Prepared: 11/03/2022		% Solids: 66.25

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	75.2	135	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	150	378	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	94.9	%	



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Reported:
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SO-TC-298A-110222
22K0059-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/02/2022 14:10

Instrument: FID3 Analyst: AA

Analyzed: 11/04/2022 15:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 3580A (Vortex)

Extract ID: 22K0059-01 A 01

Preparation Batch: BKK0112

Sample Size: 10 g (wet)

Dry Weight: 6.63 g

Prepared: 11/03/2022

Final Volume: 5 mL

% Solids: 66.25

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	38	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	75	ND	mg/kg	U
<i>Surrogate: o-Terphenyl</i>			50-150 %	101	%	
<i>Surrogate: n-Triacontane</i>			50-150 %	88.4	%	



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Reported:
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SO-TC-298A-110222
22K0059-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/02/2022 14:10

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/18/2022 04:53

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0059-01 A 04

Preparation Batch: BKK0223

Sample Size: 25 mL (wet)

Prepared: 11/08/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.08	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.53	mg/L	



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SO-TC-298A-110222
22K0059-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/02/2022 14:10

Instrument: Accumet AB150 Analyst: UW

Analyzed: 11/08/2022 17:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0059-01 A 03

Preparation Batch: BKK0244

Sample Size: 20.08 g (wet)

Prepared: 11/08/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.93	pH Units	



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Reported:
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SO-TC-298B-110222
22K0059-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/02/2022 14:20

Instrument: FID4 Analyst: AA

Analyzed: 11/04/2022 16:12

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave)
Preparation Batch: BKK0113
Prepared: 11/03/2022

Sample Size: 10.03 g (wet)
Final Volume: 10 mL

Extract ID: 22K0059-02 A 02
Dry Weight: 7.08 g
% Solids: 70.57

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	70.6	104	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	141	293	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	88.2	%	



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Reported:
20-Nov-2022 12:32

SO-TC-298B-110222
22K0059-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/02/2022 14:20

Instrument: FID3 Analyst: AA

Analyzed: 11/04/2022 15:41

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKK0112
Prepared: 11/03/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22K0059-02 A 01
Dry Weight: 7.06 g
% Solids: 70.57

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	14	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	35	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	71	ND	mg/kg	U
<i>Surrogate: o-Terphenyl</i>			50-150 %	99.6	%	
<i>Surrogate: n-Triacontane</i>			50-150 %	91.6	%	



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Reported:
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SO-TC-298B-110222
22K0059-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/02/2022 14:20

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/18/2022 04:58

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0059-02 A 04

Preparation Batch: BKK0223

Sample Size: 25 mL (wet)

Prepared: 11/08/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.12	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.84	mg/L	



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Reported:
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SO-TC-298B-110222
22K0059-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/02/2022 14:20

Instrument: Accumet AB150 Analyst: UW

Analyzed: 11/08/2022 17:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0059-02 A 03

Preparation Batch: BKK0244

Sample Size: 20.06 g (wet)

Prepared: 11/08/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.99	pH Units	



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Reported:
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SO-TC-298C-110222
22K0059-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/02/2022 14:30

Instrument: FID4 Analyst: AA

Analyzed: 11/04/2022 16:32

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave)
Preparation Batch: BKK0113
Prepared: 11/03/2022

Sample Size: 10.03 g (wet)
Final Volume: 10 mL

Extract ID: 22K0059-03 A 02
Dry Weight: 6.55 g
% Solids: 65.34

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	76.3	153	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	153	355	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	95.5	%	



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Reported:
20-Nov-2022 12:32

SO-TC-298C-110222
22K0059-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/02/2022 14:30

Instrument: FID3 Analyst: AA

Analyzed: 11/04/2022 16:02

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex) Extract ID: 22K0059-03 A 01
Preparation Batch: BKK0112 Sample Size: 10 g (wet) Dry Weight: 6.53 g
Prepared: 11/03/2022 Final Volume: 5 mL % Solids: 65.34

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	38	DET	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	77	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	104	%	
Surrogate: n-Triacontane			50-150 %	91.6	%	



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Reported:
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SO-TC-298C-110222
22K0059-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/02/2022 14:30

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/18/2022 05:03

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0059-03 A 04

Preparation Batch: BKK0223

Sample Size: 25 mL (wet)

Prepared: 11/08/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.25	mg/L	
Lead	7439-92-1	200	0.01	0.02	1.68	mg/L	



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Reported:
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SO-TC-298C-110222
22K0059-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/02/2022 14:30

Instrument: Accumet AB150 Analyst: UW

Analyzed: 11/08/2022 17:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0059-03 A 03

Preparation Batch: BKK0244

Sample Size: 20.03 g (wet)

Prepared: 11/08/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.76	pH Units	



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Reported:
20-Nov-2022 12:32

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKK0112 - NWTPH-HCID

Instrument: FID3 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0112-BLK1)		Prepared: 03-Nov-2022 Analyzed: 04-Nov-2022 13:55							
Gasoline Range Organics (Tol-C12)	ND	10	mg/kg						U
Diesel Range Organics (C12-C24)	ND	25	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	50	mg/kg						U
Surrogate: o-Terphenyl	11.6		mg/kg	11.3	103	50-150			
Surrogate: n-Triacontane	11.6		mg/kg	11.3	103	50-150			



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Reported:
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Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKK0113 - NWTPH-Dx

Instrument: FID4 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0113-BLK1) Prepared: 03-Nov-2022 Analyzed: 04-Nov-2022 14:12									
Diesel Range Organics (C12-C24)	ND	50.0	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	100	mg/kg						U
Surrogate: o-Terphenyl	61.0		mg/kg	56.3	108	50-150			
LCS (BKK0113-BS1) Prepared: 03-Nov-2022 Analyzed: 04-Nov-2022 14:32									
Diesel Range Organics (C12-C24)	1520	50.0	mg/kg	1500	101	63-120			
Surrogate: o-Terphenyl	62.2		mg/kg	56.3	111	50-150			



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Reported:
20-Nov-2022 12:32

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKK0223 - EPA 6020B

Instrument: ICPMS1 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0223-BLK1)						Prepared: 08-Nov-2022 Analyzed: 18-Nov-2022 03:45					
Arsenic	75a	ND	0.006	0.04	mg/L						U
Lead	208	ND	0.01	0.02	mg/L						U



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Reported:
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Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKK0244 - EPA 9045D

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BKK0244-BS1)									
Prepared: 08-Nov-2022 Analyzed: 08-Nov-2022 17:20									
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8		



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Reported:
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Certified Analyses included in this Report

Analyte	Certifications
EPA 6020B in Solid	
Arsenic-75a	ADEC,DoD-ELAP,WADOE,NELAP
Arsenic-75b	ADEC,DoD-ELAP,WADOE
Lead-208	NELAP,DoD-ELAP,WADOE,ADEC
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP
NWTPH-Dx in Solid	
Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE
NWTPH-HCID in Solid	
Gasoline Range Organics (Tol-C12)	NELAP,DoD-ELAP,WADOE
Diesel Range Organics (C12-C24)	NELAP,DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C38)	NELAP,DoD-ELAP,WADOE



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2022 12:32

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
20-Nov-2022 12:32

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

16 November 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22K0090

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed
by Shelly Fishel
Date: 2022.11.16
12:56:38 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AR Assigned Number: 22160090		Turn-around Requested: 3 Day		Date: 11/3/2022		Analytical Resources, LLC Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6202 (fax)					
AR Client Company: PERC		Phone: 425-346-0921		Page: of							
Client Contact: Kenny King				No. of Coolers: Cooler Temps: 13.40							
Client Project Name: Superlon Plastics				Analysis Requested						Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	pH 9045c	NW-TPH-HCID	NW-TPH-Dx				
Sample ID	Date	Time	Matrix	No. Containers							
SO-TC-299A-110322	11/03/22	10:30	Soil	1	✓	✓	✓	✓			
SO-TC-299B-110322	11/03/22	10:45	Soil	1	✓	✓	✓	✓			
SO-TC-299C-110322	11/03/22	11:00	Soil	1	✓	✓	✓	✓			
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>R. Miller</i>		Relinquished by: (Signature)		Received by: (Signature)	
				Printed Name: <i>Kenny King</i>		Printed Name: <i>Ronan Miller</i>		Printed Name:		Printed Name:	
				Company: <i>PERC</i>		Company: <i>ARI</i>		Company:		Company:	
				Date & Time: <i>11/3/22 16:41</i>		Date & Time: <i>11/3/22 16:41</i>		Date & Time:		Date & Time:	

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2022 12:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-299A-110322	22K0090-01	Solid	03-Nov-2022 10:30	03-Nov-2022 16:41
SO-TC-299B-110322	22K0090-02	Solid	03-Nov-2022 10:45	03-Nov-2022 16:41
SO-TC-299C-110322	22K0090-03	Solid	03-Nov-2022 11:00	03-Nov-2022 16:41



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2022 12:48

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22K0090

Sample receipt

Samples as listed on the preceding page were received 03-Nov-2022 16:41 under ARI work order 22K0090. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

Hydrocarbon Identification (HCID) - WA-Ecology Method NW-HCID

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS) percent recoveries were within control limits.

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.



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Project: Superlon Plastics
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16-Nov-2022 12:48

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits. The matrix spike (MS) percent recoveries were within control limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 22100090

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES ☐ NO ☒

Were custody papers included with the cooler? YES ☒ NO ☐

Were custody papers properly filled out (ink, signed, etc.) YES ☒ NO ☐

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1641 1840

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: NA

Cooler Accepted by: NA Date: 11/3/22 Time: 1641

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES ☐ NO ☒

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA ☐ YES ☒ NO ☐

How were bottles sealed in plastic bags? Individually ☐ Grouped ☒ Not ☐

Did all bottles arrive in good condition (unbroken)? YES ☒ NO ☐

Were all bottle labels complete and legible? YES ☒ NO ☐

Did the number of containers listed on COC match with the number of containers received? YES ☒ NO ☐

Did all bottle labels and tags agree with custody papers? YES ☒ NO ☐

Were all bottles used correct for the requested analyses? YES ☒ NO ☐

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA ☒ YES ☐ NO ☐

Were all VOC vials free of air bubbles? NA ☒ YES ☐ NO ☐

Was sufficient amount of sample sent in each bottle? YES ☒ NO ☐

Date VOC Trip Blank was made at ARI: NA ☒

Were the sample(s) split by ARI? NA ☒ YES ☐ Date/Time: NA Equipment: NA Split by: NA

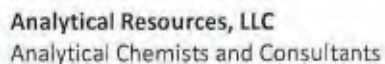
Samples Logged by: NA Date: 11/3/22 Time: 1658 Labels checked by: NA

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: NA Date: NA



Cooler Temperature Compliance Form

Completed by: B ~ Date: 11/3/20 Time: 1641

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2022 12:48

SO-TC-299A-110322
22K0090-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/03/2022 10:30

Instrument: FID3 Analyst: AA

Analyzed: 11/07/2022 13:05

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave)
Preparation Batch: BKK0140
Prepared: 11/04/2022

Sample Size: 10 g (wet)
Final Volume: 10 mL

Extract ID: 22K0090-01 A 02
Dry Weight: 6.53 g
% Solids: 65.28

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	76.6	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	153	167	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	89.5	%	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2022 12:48

SO-TC-299A-110322
22K0090-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/03/2022 10:30

Instrument: FID3 Analyst: AA

Analyzed: 11/05/2022 12:19

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKK0139
Prepared: 11/04/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22K0090-01 A 01
Dry Weight: 6.53 g
% Solids: 65.28

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	38	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	77	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	115	%	
Surrogate: n-Triacontane			50-150 %	111	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2022 12:48

SO-TC-299A-110322
22K0090-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/03/2022 10:30

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/10/2022 22:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0090-01 A 04

Preparation Batch: BKK0305

Sample Size: 25 mL (wet)

Prepared: 11/10/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.05	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.07	mg/L	



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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
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SO-TC-299A-110322
22K0090-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/03/2022 10:30

Instrument: Accumet AB150 Analyst: UW

Analyzed: 11/08/2022 17:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0090-01 A 02

Preparation Batch: BKK0244

Sample Size: 20.09 g (wet)

Prepared: 11/08/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.03	pH Units	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2022 12:48

SO-TC-299B-110322
22K0090-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/03/2022 10:45

Instrument: FID3 Analyst: AA

Analyzed: 11/07/2022 13:26

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 10.02 g (wet)	Extract ID: 22K0090-02 A 02
	Preparation Batch: BKK0140	Final Volume: 10 mL	Dry Weight: 6.95 g
	Prepared: 11/04/2022		% Solids: 69.36

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	71.9	110	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	144	280	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	96.3	%	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2022 12:48

SO-TC-299B-110322
22K0090-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/03/2022 10:45

Instrument: FID3 Analyst: AA

Analyzed: 11/05/2022 12:40

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 3580A (Vortex)

Extract ID: 22K0090-02 A 01

Preparation Batch: BKK0139

Sample Size: 10 g (wet)

Dry Weight: 6.94 g

Prepared: 11/04/2022

Final Volume: 5 mL

% Solids: 69.36

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	14	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	36	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	72	ND	mg/kg	U
<i>Surrogate: o-Terphenyl</i>			50-150 %	120	%	
<i>Surrogate: n-Triacontane</i>			50-150 %	113	%	



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Project: Superlon Plastics
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Reported:
16-Nov-2022 12:48

SO-TC-299B-110322
22K0090-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/03/2022 10:45

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/10/2022 22:50

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0090-02 A 04

Preparation Batch: BKK0305

Sample Size: 25 mL (wet)

Prepared: 11/10/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.18	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.72	mg/L	



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Reported:
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SO-TC-299B-110322
22K0090-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/03/2022 10:45

Instrument: Accumet AB150 Analyst: UW

Analyzed: 11/08/2022 17:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0090-02 A 02

Preparation Batch: BKK0244

Sample Size: 20.06 g (wet)

Prepared: 11/08/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.72	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
16-Nov-2022 12:48

SO-TC-299C-110322
22K0090-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/03/2022 11:00

Instrument: FID3 Analyst: AA

Analyzed: 11/07/2022 13:47

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave)
Preparation Batch: BKK0140
Prepared: 11/04/2022

Sample Size: 10 g (wet)
Final Volume: 10 mL

Extract ID: 22K0090-03 A 02
Dry Weight: 6.74 g
% Solids: 67.37

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	74.2	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	148	151	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	97.0	%	



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Reported:
16-Nov-2022 12:48

SO-TC-299C-110322
22K0090-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/03/2022 11:00

Instrument: FID3 Analyst: AA

Analyzed: 11/05/2022 13:01

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKK0139
Prepared: 11/04/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22K0090-03 A 01
Dry Weight: 6.74 g
% Solids: 67.37

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	37	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	74	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	113	%	
Surrogate: n-Triacontane			50-150 %	106	%	



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Reported:
16-Nov-2022 12:48

SO-TC-299C-110322
22K0090-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/03/2022 11:00

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/10/2022 22:46

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0090-03 A 04

Preparation Batch: BKK0305

Sample Size: 25 mL (wet)

Prepared: 11/10/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.08	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.38	mg/L	



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Reported:
16-Nov-2022 12:48

SO-TC-299C-110322
22K0090-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/03/2022 11:00

Instrument: Accumet AB150 Analyst: UW

Analyzed: 11/08/2022 17:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0090-03 A 02

Preparation Batch: BKK0244

Sample Size: 20.03 g (wet)

Prepared: 11/08/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.83	pH Units	



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Project: Superlon Plastics
Project Number: SLON
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Reported:
16-Nov-2022 12:48

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKK0139 - NWTPH-HCID

Instrument: FID3 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0139-BLK1)		Prepared: 04-Nov-2022 Analyzed: 05-Nov-2022 11:37							
Gasoline Range Organics (Tol-C12)	ND	10	mg/kg						U
Diesel Range Organics (C12-C24)	ND	25	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	50	mg/kg						U
Surrogate: <i>o</i> -Terphenyl	12.3		mg/kg	11.3	109	50-150			
Surrogate: <i>n</i> -Triacontane	12.4		mg/kg	11.3	110	50-150			



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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2022 12:48

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKK0140 - NWTPH-Dx

Instrument: FID3 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0140-BLK1) Prepared: 04-Nov-2022 Analyzed: 07-Nov-2022 12:02										
Diesel Range Organics (C12-C24)	ND	50.0	mg/kg							U
Motor Oil Range Organics (C24-C38)	ND	100	mg/kg							U
Surrogate: o-Terphenyl	55.0		mg/kg	56.3		97.7	50-150			
LCS (BKK0140-BS1) Prepared: 04-Nov-2022 Analyzed: 07-Nov-2022 12:23										
Diesel Range Organics (C12-C24)	1550	50.0	mg/kg	1500		103	63-120			
Surrogate: o-Terphenyl	58.1		mg/kg	56.3		103	50-150			
LCS Dup (BKK0140-BSD1) Prepared: 04-Nov-2022 Analyzed: 07-Nov-2022 12:44										
Diesel Range Organics (C12-C24)	1550	50.0	mg/kg	1500		103	63-120	0.12	30	
Surrogate: o-Terphenyl	57.4		mg/kg	56.3		102	50-150			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2022 12:48

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKK0305 - EPA 6020B

Instrument: ICPMS1 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0305-BLK1)						Prepared: 10-Nov-2022 Analyzed: 10-Nov-2022 22:26						
Arsenic	75a	ND	0.006	0.04	mg/L							U
Blank (BKK0305-BLK2)						Prepared: 10-Nov-2022 Analyzed: 12-Nov-2022 01:41						
Lead	208	ND	0.01	0.02	mg/L							U
Duplicate (BKK0305-DUP2)						Source: 22K0090-01 Prepared: 10-Nov-2022 Analyzed: 12-Nov-2022 02:10						
Lead	208	0.06	0.01	0.02	mg/L		0.07			10.20	20	
Matrix Spike (BKK0305-MS2)						Source: 22K0090-01 Prepared: 10-Nov-2022 Analyzed: 12-Nov-2022 02:16						
Lead	208	4.05	0.01	0.02	mg/L	4.00	0.07	99.6	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKK0244 - EPA 9045D

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BKK0244-BS1)					Prepared: 08-Nov-2022 Analyzed: 08-Nov-2022 17:20				
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8		



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Certified Analyses included in this Report

Analyte	Certifications
EPA 6020B in Solid	
Arsenic-75a	ADEC,DoD-ELAP,WADOE,NELAP
Arsenic-75b	ADEC,DoD-ELAP,WADOE
Lead-208	NELAP,DoD-ELAP,WADOE,ADEC
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP
NWTPH-Dx in Solid	
Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE
NWTPH-HCID in Solid	
Gasoline Range Organics (Tol-C12)	NELAP,DoD-ELAP,WADOE
Diesel Range Organics (C12-C24)	NELAP,DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C38)	NELAP,DoD-ELAP,WADOE



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Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023



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Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
D1	Surrogate was not detected due to sample extract dilution
H	Hold time violation - Hold time was exceeded.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

16 November 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22K0091

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by Shelly Fishel
Date: 2022.11.16 13:11:23 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager



Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 22 K0091	Turn-around Requested: 3 Day
AR Client Company: PERC	Phone: 425-346-0921
Client Contact: Kenny King	

Date: 11/3/2022
Page: of
No. of Coolers: 13.40



Analytical Resources, LLC
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6202 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045c	NW-TPH- HCID	NW-TPH- Dx					
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-300A-110322	11/03/22	14:30	Soil	1	✓	✓	✓	✓					
SO-TC-300B-110322	11/03/22	14:45	Soil	1	✓	✓	✓	✓					
SO-TC-300C-110322	11/03/22	15:00	Soil	1	✓	✓	✓	✓					
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Ronan Miller</i>		Relinquished by: (Signature)		Received by: (Signature)		
					Printed Name: Kenny King		Printed Name: Ronan Miller		Printed Name:		Printed Name:		
					Company: PERC		Company: ARI		Company:		Company:		
					Date & Time: 11/3/22 16:41		Date & Time: 11/3/22 16:41		Date & Time:		Date & Time:		

Limits of Liability: Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSSDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



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Project Manager: Kenny King

Reported:
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-300A-110322	22K0091-01	Solid	03-Nov-2022 14:30	03-Nov-2022 16:41
SO-TC-300B-110322	22K0091-02	Solid	03-Nov-2022 14:45	03-Nov-2022 16:41
SO-TC-300C-110322	22K0091-03	Solid	03-Nov-2022 15:00	03-Nov-2022 16:41



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Project: Superlon Plastics
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Reported:
16-Nov-2022 13:10

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22K0091

Sample receipt

Samples as listed on the preceding page were received 03-Nov-2022 16:41 under ARI work order 22K0091. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

Hydrocarbon Identification (HCID) - WA-Ecology Method NW-HCID

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS) percent recoveries were within control limits.

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.



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16-Nov-2022 13:10

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 22K0091

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES YES NO

Were custody papers properly filled out (ink, signed, etc.) YES YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1641 15.40

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: _____

Cooler Accepted by: R Date: 11/3/22 Time: 1641

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES YES NO

Were all bottle labels complete and legible? YES YES NO

Did the number of containers listed on COC match with the number of containers received? YES YES NO

Did all bottle labels and tags agree with custody papers? YES YES NO

Were all bottles used correct for the requested analyses? YES YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

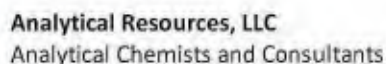
Samples Logged by: R Date: 11/3/22 Time: 1705 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: A ~ Date: 11/3/22 Time: 1641



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Reported:
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SO-TC-300A-110322
22K0091-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/03/2022 14:30

Instrument: FID3 Analyst: AA

Analyzed: 11/07/2022 14:09

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave)
Preparation Batch: BKK0140
Prepared: 11/04/2022

Sample Size: 10 g (wet)
Final Volume: 10 mL

Extract ID: 22K0091-01 A 02
Dry Weight: 6.25 g
% Solids: 62.51

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	80.0	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	160	239	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	96.5	%	



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SO-TC-300A-110322
22K0091-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/03/2022 14:30

Instrument: FID3 Analyst: AA

Analyzed: 11/05/2022 13:23

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKK0139
Prepared: 11/04/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22K0091-01 A 01
Dry Weight: 6.25 g
% Solids: 62.51

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	16	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	40	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	80	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	118	%	
Surrogate: n-Triacontane			50-150 %	106	%	



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Reported:
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SO-TC-300A-110322
22K0091-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/03/2022 14:30

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/10/2022 22:31

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0091-01 A 04

Preparation Batch: BKK0305

Sample Size: 25 mL (wet)

Prepared: 11/10/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.09	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.48	mg/L	



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SO-TC-300A-110322
22K0091-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/03/2022 14:30

Instrument: Accumet AB150 Analyst: UW

Analyzed: 11/08/2022 17:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0091-01 A 02

Preparation Batch: BKK0244

Sample Size: 20.09 g (wet)

Prepared: 11/08/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.48	pH Units	



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Reported:
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SO-TC-300B-110322
22K0091-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/03/2022 14:45

Instrument: FID3 Analyst: AA

Analyzed: 11/07/2022 14:30

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 10.04 g (wet)	Extract ID: 22K0091-02 A 02
	Preparation Batch: BKK0140	Final Volume: 10 mL	Dry Weight: 6.40 g
	Prepared: 11/04/2022		% Solids: 63.71

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	78.2	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	156	180	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	92.1	%	



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SO-TC-300B-110322
22K0091-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/03/2022 14:45

Instrument: FID3 Analyst: AA

Analyzed: 11/05/2022 13:44

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKK0139
Prepared: 11/04/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22K0091-02 A 01
Dry Weight: 6.37 g
% Solids: 63.71

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	16	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	39	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	78	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	121	%	
Surrogate: n-Triacontane			50-150 %	113	%	



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SO-TC-300B-110322
22K0091-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/03/2022 14:45

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/10/2022 22:36

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0091-02 A 04

Preparation Batch: BKK0305

Sample Size: 25 mL (wet)

Prepared: 11/10/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.06	mg/L	
Lead	7439-92-1	200	0.01	0.02	0.02	mg/L	J



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SO-TC-300B-110322
22K0091-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/03/2022 14:45

Instrument: Accumet AB150 Analyst: UW

Analyzed: 11/08/2022 17:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0091-02 A 02

Preparation Batch: BKK0244

Sample Size: 20.11 g (wet)

Prepared: 11/08/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.92	pH Units	



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Reported:
16-Nov-2022 13:10

SO-TC-300C-110322
22K0091-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/03/2022 15:00

Instrument: FID3 Analyst: AA

Analyzed: 11/07/2022 14:51

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 10.01 g (wet)	Extract ID: 22K0091-03 A 02
	Preparation Batch: BKK0140	Final Volume: 10 mL	Dry Weight: 6.63 g
	Prepared: 11/04/2022		% Solids: 66.25

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	75.4	144	mg/kg	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	151	368	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	91.6	%	



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SO-TC-300C-110322
22K0091-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/03/2022 15:00

Instrument: FID3 Analyst: AA

Analyzed: 11/05/2022 14:05

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKK0139
Prepared: 11/04/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22K0091-03 A 01
Dry Weight: 6.63 g
% Solids: 66.25

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	15	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	38	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	75	ND	mg/kg	U
Surrogate: o-Terphenyl			50-150 %	115	%	
Surrogate: n-Triacontane			50-150 %	110	%	



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Reported:
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SO-TC-300C-110322
22K0091-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/03/2022 15:00

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/10/2022 22:41

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0091-03 A 04

Preparation Batch: BKK0305

Sample Size: 25 mL (wet)

Prepared: 11/10/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.05	mg/L	
Lead	7439-92-1	200	0.01	0.02	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2022 13:10

SO-TC-300C-110322
22K0091-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/03/2022 15:00

Instrument: Accumet AB150 Analyst: UW

Analyzed: 11/08/2022 17:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0091-03 A 02

Preparation Batch: BKK0244

Sample Size: 20.05 g (wet)

Prepared: 11/08/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.99	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2022 13:10

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKK0139 - NWTPH-HCID

Instrument: FID3 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0139-BLK1)		Prepared: 04-Nov-2022 Analyzed: 05-Nov-2022 11:37							
Gasoline Range Organics (Tol-C12)	ND	10	mg/kg						U
Diesel Range Organics (C12-C24)	ND	25	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	50	mg/kg						U
Surrogate: o-Terphenyl	12.3		mg/kg	11.3	109	50-150			
Surrogate: n-Triacontane	12.4		mg/kg	11.3	110	50-150			



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2022 13:10

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKK0140 - NWTPH-Dx

Instrument: FID3 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0140-BLK1) Prepared: 04-Nov-2022 Analyzed: 07-Nov-2022 12:02										
Diesel Range Organics (C12-C24)	ND	50.0	mg/kg							U
Motor Oil Range Organics (C24-C38)	ND	100	mg/kg							U
Surrogate: o-Terphenyl	55.0		mg/kg	56.3		97.7	50-150			
LCS (BKK0140-BS1) Prepared: 04-Nov-2022 Analyzed: 07-Nov-2022 12:23										
Diesel Range Organics (C12-C24)	1550	50.0	mg/kg	1500		103	63-120			
Surrogate: o-Terphenyl	58.1		mg/kg	56.3		103	50-150			
LCS Dup (BKK0140-BSD1) Prepared: 04-Nov-2022 Analyzed: 07-Nov-2022 12:44										
Diesel Range Organics (C12-C24)	1550	50.0	mg/kg	1500		103	63-120	0.12	30	
Surrogate: o-Terphenyl	57.4		mg/kg	56.3		102	50-150			



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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2022 13:10

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKK0305 - EPA 6020B

Instrument: ICPMS1 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0305-BLK1)						Prepared: 10-Nov-2022 Analyzed: 10-Nov-2022 22:26						
Arsenic	75a	ND	0.006	0.04	mg/L							U
Blank (BKK0305-BLK2)						Prepared: 10-Nov-2022 Analyzed: 12-Nov-2022 01:41						
Lead	208	ND	0.01	0.02	mg/L							U



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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2022 13:10

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKK0244 - EPA 9045D

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BKK0244-BS1)									
Prepared: 08-Nov-2022 Analyzed: 08-Nov-2022 17:20									
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8		



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Nov-2022 13:10

Certified Analyses included in this Report

Analyte	Certifications
EPA 6020B in Solid	
Arsenic-75a	ADEC,DoD-ELAP,WADOE,NELAP
Arsenic-75b	ADEC,DoD-ELAP,WADOE
Lead-208	NELAP,DoD-ELAP,WADOE,ADEC
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP
NWTPH-Dx in Solid	
Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE
NWTPH-HCID in Solid	
Gasoline Range Organics (Tol-C12)	NELAP,DoD-ELAP,WADOE
Diesel Range Organics (C12-C24)	NELAP,DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C38)	NELAP,DoD-ELAP,WADOE



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8424 E Meadow Lake Drive
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Project: Superlon Plastics
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Reported:
16-Nov-2022 13:10

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
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Reported:
16-Nov-2022 13:10

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
D1	Surrogate was not detected due to sample extract dilution
H	Hold time violation - Hold time was exceeded.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: APPROVAL - One data package for you review and approval

From JEFFREY KING <jking@percnw.com>
Date Tue 12/6/2022 10:59 AM
To Quyen Keeton <QKeeton@tpchd.org>; Dan Watts <DWatts@tpchd.org>
Cc kking perc-nw.com <kking@perc-nw.com>; Keith Johnston <KJohnston@tpchd.org>

Thank you Quyen

From: Quyen Keeton <QKeeton@tpchd.org>
Sent: Tuesday, December 6, 2022 9:34 AM
To: JEFFREY KING <jking@percnw.com>; Dan Watts <DWatts@tpchd.org>
Cc: 'kking@perc-nw.com' <kking@perc-nw.com>; Keith Johnston <KJohnston@tpchd.org>
Subject: APPROVAL - One data package for you review and approval

Hi Jeff,

I have reviewed the data and these soils **SO-TC-301A-111622** and **SO-TC-301C-111622** are acceptable for disposal under WDA 2625R.

Thank you,

Best regards,

Quyen Keeton, M.S., RS (she/her)

Environmental Health Specialist II
Waste Management, Environmental Health
(253) 649-1841 o • qkeeton@tpchd.org
(253) 732-4848 c • www.tpchd.org



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We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

From: JEFFREY KING <jking@percnw.com>
Sent: Tuesday, December 6, 2022 6:19 AM
To: Dan Watts <DWatts@tpchd.org>; Quyen Keeton <QKeeton@tpchd.org>
Cc: 'kking@perc-nw.com' <kking@perc-nw.com>; Keith Johnston <KJohnston@tpchd.org>
Subject: RE: One data package for you review and approval

CAUTION: External Email

Dan and Quyen:

Based upon a conversation with Quyen we have decided to withdraw our request for authorization to dispose of soils related to sample SO-TC-301B-111622. So to hopefully get approval for the soils related to the other two samples the revised request for authorization table is below. We will resample sample SO-TC-301B-111622 to determine the gasoline levels in the soil.

The soils that the analysis represents are from the Superlon Plastics site (WDA Permit number 2625R). Each sample represents approximately 23 CY of soil. We are asking for permission to dispose of soils associated with samples SO-TC-301A-111622 and SO-TC-301C-111622 at LRI.

SAMPLE ID	TCLP (mg/L)		NWTPh-Dx		NWTPh-HCID			pH	Request
	Arsenic Concentration	Lead Concentration	Diesel Range Organics	Motor Oil Range Organics	Gasoline Range Organics	Diesel Range Organics	Motor Oil Range Organics		
SO-TC-301A-111622	0.04	ND	130	203	ND	DET	DET	10	Asking for approval
SO-TC-301B-111622	0.08	ND	621	211	DET	DET	DET	9.8	NOT Asking for approval, Soils will be resampled
SO-TC-301C-111622	0.07	ND	250	350	ND	DET	DET	9.7	Asking for approval

Thank you
Jeff

Jeffrey D King, PG/LG
President/Geologist
Pacific Environmental & Redevelopment Corporation (PERC)
8424 E Meadow Lake Drive
Snohomish, WA 98290
425.238.2212
jking@perc-nw.com

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From: JEFFREY KING
Sent: Thursday, December 1, 2022 3:04 PM
To: Dan Watts <DWatts@tpchd.org>
Cc: 'kking@perc-nw.com' <kking@perc-nw.com>; Keith Johnston <KJohnston@tpchd.org>
Subject: RE: One data package for you review and approval

I am sorry Dan. Our annual permit is WDA Permit number 2625R (attached). It is for the Superlon Site at 2116 Taylor Way in Tacoma.

From: Dan Watts <DWatts@tpchd.org>
Sent: Thursday, December 1, 2022 10:23 AM
To: JEFFREY KING <jking@perc-nw.com>
Cc: 'kking@perc-nw.com' <kking@perc-nw.com>; Keith Johnston <KJohnston@tpchd.org>
Subject: RE: One data package for you review and approval

Hi Jeff,

I only see analyticals attached, Is this for an existing WDA? If so are you requesting a volume increase? If this is for a new or renewal WDA please attach the WDA application.

Dan Watts
Environmental Health Specialist
Environmental Health

(253 405-8605 c • dwatts@tpchd.org
 • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: JEFFREY KING <jking@perc-nw.com>
Sent: Thursday, December 1, 2022 8:34 AM
To: Dan Watts <DWatts@tpchd.org>
Cc: 'kking@perc-nw.com' <kking@perc-nw.com>; Keith Johnston <KJohnston@tpchd.org>
Subject: FW: One data package for you review and approval

CAUTION: External Email

Dan:

In Keith's absence could you please review the attached and if appropriate send us permission for disposal at LRI.

Thanks
 Jeff

Jeffrey D King, PG/LG
 President/Geologist
Pacific Environmental & Redevelopment Corporation (PERC)
 8424 E Meadow Lake Drive
 Snohomish, WA 98290
 425.238.2212
jking@perc-nw.com

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From: JEFFREY KING
Sent: Thursday, December 1, 2022 8:30 AM
To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc: 'kking@perc-nw.com' <kking@perc-nw.com>
Subject: One data package for you review and approval

Keith:

Attached is one data package for your review and approval. The soils that the analysis represents are from the Superlon Plastics site (WDA Permit number 2625R). Each sample represents approximately 23 CY of soil. The following table lists the results.

	TCLP (mg/L)		NWTPH-Dx		NWTPH-HCID				
SAMPLE ID	Arsenic Concentration	Lead Concentration	Diesel Range Organics	Motor Oil Range Organics	Gasoline Range Organics	Diesel Range Organics	Motor Oil Range Organics	pH	Request

SO-TC-301A-111622	0.04	ND	130	203	ND	DET	DET	9.99	Asking for approval
SO-TC-301B-111622	0.08	ND	621	211	DET	DET	DET	9.83	Asking for approval
SO-TC-301C-111622	0.07	ND	250	350	ND	DET	DET	9.67	Asking for approval

Thank you
Jeff

Jeffrey D King, PG/LG
President/Geologist
Pacific Environmental & Redevelopment Corporation (PERC)
8424 E Meadow Lake Drive
Snohomish, WA 98290
425.238.2212
jking@perc-nw.com

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Analytical Resources, LLC
Analytical Chemists and Consultants

30 November 2022

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
22K0315

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2022.11.30 20:11:00
-08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

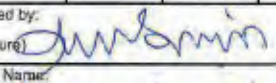
Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Shelly Fishel, Project Manager



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22K0315		Turn-around Requested: 3 DAY		Date: 11/16/2022		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)						
ARI Client Company: PERC		Phone: 4253460921		Page: of								
Client Contact: Kenny King				No. of Coolers: Cooler Temps:								
Client Project Name: Superlon Plastics					Analysis Requested					Notes/Comments		
Client Project #: SLON		Samplers: KING			TCLP 1311 As/Pb Only	pH 9045C	NWTPH-H CID	NW-TPH- Dx				
Sample ID	Date	Time	Matrix	No. Containers								
SO-TC-301A-111622	11/16/22	09:40	SOIL	1	✓	✓	✓	✓				
SO-TC-301B-111622	11/16/22	09:50	SOIL	1	✓	✓	✓	✓				
SO-TC-301C-111622	11/16/22	10:00	SOIL	1	✓	✓	✓	✓				
Comments/Special Instructions		Relinquished by: (Signature) 		Received by: (Signature) 		Relinquished by: (Signature)		Received by: (Signature)				
		Printed Name: JEFF KING		Printed Name: Jeff King		Printed Name:		Printed Name:				
		Company: PERC		Company: ARI LLC		Company:		Company:				
		Date & Time: 11/16/22 12:59		Date & Time: 11/16/22 12:58		Date & Time:		Date & Time:				

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Nov-2022 20:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-301A-111622	22K0315-01	Solid	16-Nov-2022 09:40	16-Nov-2022 12:58
SO-TC-301B-111622	22K0315-02	Solid	16-Nov-2022 09:50	16-Nov-2022 12:58
SO-TC-301C-111622	22K0315-03	Solid	16-Nov-2022 10:00	16-Nov-2022 12:58



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Nov-2022 20:04

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 22K0315

Sample receipt

Samples as listed on the preceding page were received 16-Nov-2022 12:58 under ARI work order 22K0315. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits. The matrix spike (MS) percent recoveries were within control limits.

Hydrocarbon Identification (HCID) - WA-Ecology Method NW-HCID



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Nov-2022 20:04

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 22K0315

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 12:58 18.3

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 2009708

Cooler Accepted by: [Signature] Date: 11/16/22 Time: 12:58

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? NA YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

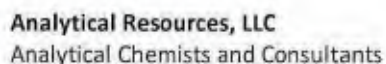
Samples Logged by: PER Date: 11/16/22 Time: 13:07 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: Olivia Smith Date: 11/16/22 Time: 12:58

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Nov-2022 20:04

SO-TC-301A-111622
22K0315-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/16/2022 09:40

Instrument: FID4 Analyst: AA

Analyzed: 11/19/2022 04:35

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 10 g (wet)	Extract ID: 22K0315-01 A 02
	Preparation Batch: BKK0495	Final Volume: 10 mL	Dry Weight: 8.33 g
	Prepared: 11/17/2022		% Solids: 83.32

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	60.0	130	mg/kg	
HC ID: DIESEL						
Motor Oil Range Organics (C24-C38)	RRO	1	120	203	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	105	%	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Nov-2022 20:04

SO-TC-301A-111622
22K0315-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/16/2022 09:40

Instrument: FID3 Analyst: AA

Analyzed: 11/18/2022 18:42

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKK0494
Prepared: 11/17/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22K0315-01 A 04
Dry Weight: 8.33 g
% Solids: 83.32

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	12	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	30	DET	mg/kg	
HC ID: DIESEL						
Motor Oil Range Organics (C24-C38)	RRO	1	60	DET	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	98.7	%	
Surrogate: n-Triacontane			50-150 %	100	%	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Nov-2022 20:04

SO-TC-301A-111622
22K0315-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/16/2022 09:40

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/22/2022 00:17

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0315-01 A 04

Preparation Batch: BKK0550

Sample Size: 25 mL (wet)

Prepared: 11/18/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.04	mg/L	J
Lead	7439-92-1	200	0.01	0.02	ND	mg/L	U



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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
30-Nov-2022 20:04

SO-TC-301A-111622
22K0315-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/16/2022 09:40

Instrument: Accumet AB150 Analyst: UW

Analyzed: 11/29/2022 15:15

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0315-01 A 04

Preparation Batch: BKK0802

Sample Size: 20.14 g (wet)

Prepared: 11/29/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.99	pH Units	



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Reported:
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SO-TC-301B-111622
22K0315-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/16/2022 09:50

Instrument: FID4 Analyst: AA

Analyzed: 11/19/2022 04:55

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave)
Preparation Batch: BKK0495
Prepared: 11/17/2022

Sample Size: 10.01 g (wet)
Final Volume: 10 mL

Extract ID: 22K0315-02 A 02
Dry Weight: 7.73 g
% Solids: 77.23

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	64.7	621	mg/kg	
HC ID: DIESEL						
Motor Oil Range Organics (C24-C38)	RRO	1	129	211	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	99.0	%	



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Reported:
30-Nov-2022 20:04

SO-TC-301B-111622
22K0315-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/16/2022 09:50

Instrument: FID3 Analyst: AA

Analyzed: 11/18/2022 19:03

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3580A (Vortex)
Preparation Batch: BKK0494
Prepared: 11/17/2022

Sample Size: 10 g (wet)
Final Volume: 5 mL

Extract ID: 22K0315-02 A 04
Dry Weight: 7.72 g
% Solids: 77.23

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	13	DET	mg/kg	
HC ID: GRO						
Diesel Range Organics (C12-C24)	DRO	1	32	DET	mg/kg	
HC ID: DIESEL						
Motor Oil Range Organics (C24-C38)	RRO	1	65	DET	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	100	%	
Surrogate: n-Triacontane			50-150 %	98.2	%	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Nov-2022 20:04

SO-TC-301B-111622
22K0315-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/16/2022 09:50

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/29/2022 00:14

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0315-02 A 04

Preparation Batch: BKK0550

Sample Size: 25 mL (wet)

Prepared: 11/18/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.08	mg/L	
Lead	7439-92-1	200	0.01	0.02	ND	mg/L	U



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Project: Superlon Plastics
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Reported:
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SO-TC-301B-111622
22K0315-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/16/2022 09:50

Instrument: Accumet AB150 Analyst: UW

Analyzed: 11/29/2022 15:15

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0315-02 A 04

Preparation Batch: BKK0802

Sample Size: 20.23 g (wet)

Prepared: 11/29/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.83	pH Units	



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
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SO-TC-301C-111622
22K0315-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 11/16/2022 10:00

Instrument: FID4 Analyst: AA

Analyzed: 11/19/2022 05:14

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave)
Preparation Batch: BKK0495
Prepared: 11/17/2022

Sample Size: 10.01 g (wet)
Final Volume: 10 mL

Extract ID: 22K0315-03 A 02
Dry Weight: 7.51 g
% Solids: 75.06

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	66.5	250	mg/kg	
HC ID: DIESEL						
Motor Oil Range Organics (C24-C38)	RRO	1	133	350	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	90.5	%	



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Project: Superlon Plastics
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Reported:
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SO-TC-301C-111622
22K0315-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-HCID

Sampled: 11/16/2022 10:00

Instrument: FID3 Analyst: AA

Analyzed: 11/18/2022 19:24

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3580A (Vortex)	Sample Size: 10 g (wet)	Extract ID: 22K0315-03 A 04
	Preparation Batch: BKK0494	Final Volume: 5 mL	Dry Weight: 7.51 g
	Prepared: 11/17/2022		% Solids: 75.06

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-C12)	GRO	1	13	ND	mg/kg	U
Diesel Range Organics (C12-C24)	DRO	1	33	DET	mg/kg	
HC ID: DIESEL						
Motor Oil Range Organics (C24-C38)	RRO	1	67	DET	mg/kg	
HC ID: MOTOR OIL						
Surrogate: o-Terphenyl			50-150 %	108	%	
Surrogate: n-Triacontane			50-150 %	105	%	



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Project: Superlon Plastics
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Reported:
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SO-TC-301C-111622
22K0315-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6020B

Sampled: 11/16/2022 10:00

Instrument: ICPMS1 Analyst: MCB

Analyzed: 11/29/2022 00:19

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 22K0315-03 A 04

Preparation Batch: BKK0550

Sample Size: 25 mL (wet)

Prepared: 11/18/2022

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection	Reporting	Result	Units	Notes
			Limit	Limit			
Arsenic	7440-38-2	200	0.006	0.04	0.07	mg/L	
Lead	7439-92-1	200	0.01	0.02	ND	mg/L	U



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Project: Superlon Plastics
Project Number: SLON
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Reported:
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SO-TC-301C-111622
22K0315-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/16/2022 10:00

Instrument: Accumet AB150 Analyst: UW

Analyzed: 11/29/2022 15:15

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 22K0315-03 A 04

Preparation Batch: BKK0802

Sample Size: 20.23 g (wet)

Prepared: 11/29/2022

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.67	pH Units	



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Reported:
30-Nov-2022 20:04

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKK0494 - NWTPH-HCID

Instrument: FID3 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0494-BLK1)		Prepared: 17-Nov-2022 Analyzed: 18-Nov-2022 18:21							
Gasoline Range Organics (Tol-C12)	ND	10	mg/kg						U
Diesel Range Organics (C12-C24)	ND	25	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	50	mg/kg						U
Surrogate: o-Terphenyl	11.7		mg/kg	11.3	104	50-150			
Surrogate: n-Triacontane	13.3		mg/kg	11.3	118	50-150			



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Reported:
30-Nov-2022 20:04

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKK0495 - NWTPH-Dx

Instrument: FID4 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0495-BLK1) Prepared: 17-Nov-2022 Analyzed: 19-Nov-2022 03:56									
Diesel Range Organics (C12-C24)	ND	50.0	mg/kg						U
Motor Oil Range Organics (C24-C38)	ND	100	mg/kg						U
Surrogate: o-Terphenyl	64.5		mg/kg	56.3	115	50-150			
LCS (BKK0495-BS1) Prepared: 17-Nov-2022 Analyzed: 19-Nov-2022 04:15									
Diesel Range Organics (C12-C24)	1480	50.0	mg/kg	1500	98.6	63-120			
Surrogate: o-Terphenyl	61.4		mg/kg	56.3	109	50-150			



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Reported:
30-Nov-2022 20:04

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BKK0550 - EPA 6010D

Instrument: ICP3 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0550-BLK2)						Prepared: 18-Nov-2022 Analyzed: 29-Nov-2022 20:33					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U

Instrument: ICPMS1 Analyst: MCB

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKK0550-BLK1)						Prepared: 18-Nov-2022 Analyzed: 22-Nov-2022 00:14						
Arsenic	75a	ND	0.006	0.04	mg/L							U
Lead	208	ND	0.01	0.02	mg/L							U

Duplicate (BKK0550-DUP1)		Source: 22K0315-01			Prepared: 18-Nov-2022	Analyzed: 22-Nov-2022 00:21			
Arsenic	75a	0.04	0.006	0.04	mg/L	0.04	5.43	20	J
Lead	208	ND	0.01	0.02	mg/L	ND			U

Matrix Spike (BKK0550-MS1)		Source: 22K0315-01			Prepared: 18-Nov-2022		Analyzed: 22-Nov-2022 00:25		
Arsenic	75a	4.05	0.006	0.04	mg/L	4.00	0.04	100	75-125
Lead	208	4.14	0.01	0.02	mg/L	4.00	ND	103	75-125

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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Project: Superlon Plastics
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Reported:
30-Nov-2022 20:04

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKK0802 - EPA 9045D

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BKK0802-BS1)						Prepared: 29-Nov-2022 Analyzed: 29-Nov-2022 15:15				
pH	6.98	0.01	0.01	pH Units	7.00	99.7	99.2-100.8			
Duplicate (BKK0802-DUP1)						Source: 22K0315-01 Prepared: 29-Nov-2022 Analyzed: 29-Nov-2022 15:15				
pH	10.0	0.01	0.01	pH Units	9.99			0.20	20	



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Reported:
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Certified Analyses included in this Report

Analyte	Certifications
EPA 6020B in Solid	
Arsenic-75a	ADEC,DoD-ELAP,WADOE,NELAP
Arsenic-75b	ADEC,DoD-ELAP,WADOE
Lead-208	NELAP,DoD-ELAP,WADOE,ADEC
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP
NWTPH-Dx in Solid	
Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE
NWTPH-HCID in Solid	
Gasoline Range Organics (Tol-C12)	NELAP,DoD-ELAP,WADOE
Diesel Range Organics (C12-C24)	NELAP,DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C38)	NELAP,DoD-ELAP,WADOE



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Reported:
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Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023
WADOE	WA Dept of Ecology	C558	06/30/2023
WA-DW	Ecology - Drinking Water	C558	06/30/2023



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Reported:
30-Nov-2022 20:04

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
NRS	This surrogate not reported due to chromatographic interference
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: One data Package for your review.

From Keith Johnston <KJohnston@tpchd.org>

Date Wed 4/5/2023 10:08 AM

To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>; Jeff Bishop <Jeffrey.Bishop@WasteConnections.com>; Ryan Roth <ryan.roth@wasteconnections.com>; Olivier Moi <OlivierA@WasteConnections.com>

Jeff,

I have reviewed the lab data and these soils are appropriate for disposal under WDA 2625R.

Per our conversation please coordinate with the landfill so they know that the soils are high pH when your driver arrives with these batches of soil.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>

Sent: Wednesday, April 5, 2023 9:03 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: One data Package for your review.

CAUTION: External Email

Keith:

Attached is one data package for your review. The pH values are high but just under the 12.5 cutoff. The soils that the analysis represents are from the Superlon Plastics site (WDA Permit number 2625R). Each sample represents approximately 23 CY of soil. The following table lists the results.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-305A-031623	0.308	ND	12.4	Asking for approval
SO-TC-305B-031623	0.33	ND	12.4	Asking for approval
SO-TC-305C-031623	0.296	ND	12.4	Asking for approval

Thank you

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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Thank you.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

27 March 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23C0399

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2023.03.27
20:09:11 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AR Assigned Number: 230799		Turn-around Requested: 3 Day			Date: 3/16/2023		Analytical Resources, LLC Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6202 (fax)						
AR Client Company: PERC		Phone: 425-346-0921			Page: of								
Client Contact: Kenny King					No. of Coolers: Cooler Temps: 21.7								
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-305A-031623	03/16/23	13:00	Soil	1	✓	✓							
SO-TC-305B-031623	03/16/23	13:15	Soil	1	✓	✓							
SO-TC-305C-031623	03/16/23	13:30	Soil	1	✓	✓							
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Philip Barks</i>			Relinquished by: (Signature)			Received by: (Signature)		
		Printed Name: <i>Kenny King</i>			Printed Name: <i>Philip Barks</i>			Printed Name:			Printed Name:		
		Company: <i>PERC</i>			Company: <i>AR</i>			Company:			Company:		
		Date & Time: <i>3/16/23 16:42</i>			Date & Time: <i>3/16/23 16:42</i>			Date & Time:			Date & Time:		

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Mar-2023 20:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-305A-031623	23C0399-01	Solid	16-Mar-2023 13:00	16-Mar-2023 16:42
SO-TC-305B-031623	23C0399-02	Solid	16-Mar-2023 13:15	16-Mar-2023 16:42
SO-TC-305C-031623	23C0399-03	Solid	16-Mar-2023 13:30	16-Mar-2023 16:42



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Mar-2023 20:06

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 23C0399

Sample receipt

Samples as listed on the preceding page were received 16-Mar-2023 16:42 under ARI work order 23C0399. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

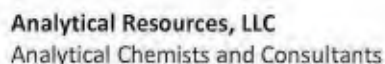
The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Cooler Temperature Compliance Form

Completed by: PJB Date: 3/16/23 Time: 16:42

Version 001
10/27/2021



Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 230799

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 16:42 21.7

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 7009708

Cooler Accepted by: LIB Date: 3/16/23 Time: 16:42

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

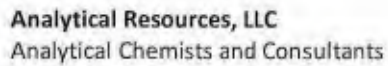
Samples Logged by: R Date: 3/16/23 Time: 1652 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____





PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Mar-2023 20:06

SO-TC-305A-031623
23C0399-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/16/2023 13:00

Instrument: ICP3 Analyst: DOE

Analyzed: 03/27/2023 12:35

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23C0399-01 A 01

Preparation Batch: BLC0616

Sample Size: 25 mL (wet)

Prepared: 03/23/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.308	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Mar-2023 20:06

SO-TC-305A-031623
23C0399-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/16/2023 13:00

Instrument: Accumet AB150 Analyst: UW

Analyzed: 03/17/2023 15:00

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23C0399-01 A

Preparation Batch: BLC0474

Sample Size: 20 g (wet)

Prepared: 03/17/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	12.4	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Mar-2023 20:06

SO-TC-305B-031623
23C0399-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/16/2023 13:15

Instrument: ICP3 Analyst: DOE

Analyzed: 03/27/2023 12:38

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23C0399-02 A 01

Preparation Batch: BLC0616

Sample Size: 25 mL (wet)

Prepared: 03/23/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.330	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Mar-2023 20:06

SO-TC-305B-031623
23C0399-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/16/2023 13:15

Instrument: Accumet AB150 Analyst: UW

Analyzed: 03/17/2023 15:00

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23C0399-02 A

Preparation Batch: BLC0474

Sample Size: 20 g (wet)

Prepared: 03/17/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	12.4	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Mar-2023 20:06

SO-TC-305C-031623
23C0399-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 03/16/2023 13:30

Instrument: ICP3 Analyst: DOE

Analyzed: 03/27/2023 12:41

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23C0399-03 A 01

Preparation Batch: BLC0616

Sample Size: 25 mL (wet)

Prepared: 03/23/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.296	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Mar-2023 20:06

SO-TC-305C-031623
23C0399-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 03/16/2023 13:30

Instrument: Accumet AB150 Analyst: UW

Analyzed: 03/17/2023 15:00

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23C0399-03 A

Preparation Batch: BLC0474

Sample Size: 20 g (wet)

Prepared: 03/17/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	12.4	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Mar-2023 20:06

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLC0616 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BLC0616-BLK1)						Prepared: 23-Mar-2023 Analyzed: 27-Mar-2023 11:14					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Mar-2023 20:06

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLC0474 - EPA 9045D

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BLC0474-BS1)									
Prepared: 17-Mar-2023 Analyzed: 17-Mar-2023 15:00									
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Mar-2023 20:06

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023
WADOE	WA Dept of Ecology	C558	06/30/2023
WA-DW	Ecology - Drinking Water	C558	06/30/2023



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Mar-2023 20:06

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: One data package for you review and approval

From Keith Johnston <KJohnston@tpchd.org>

Date Fri 4/21/2023 3:34 PM

To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>

Hi Jeff,

I have reviewed the lab data and these soils are appropriate for disposal under WDA 2716R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management

Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>

Sent: Friday, April 21, 2023 12:58 PM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: One data package for you review and approval

CAUTION: External Email

Keith:

Attached is one data package for your review and approval. The soils that the analysis represents are from the Superlon Plastics site (WDA Permit number 2716R). Each sample represents approximately 23 CY of soil. The following table lists the results.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-302A-041123	0.105	0.007	11.7	Asking for approval
SO-TC-302B-041123	0.167	ND	11.7	Asking for approval

SO-TC-302C-041123	0.144	ND	12	Asking for approval
-------------------	-------	----	----	---------------------

Thank you
Jeff

Jeffrey D King, PG/LG
President/Geologist
[Pacific Environmental & Redevelopment Corporation \(PERC\)](#)
8424 E Meadow Lake Drive
Snohomish, WA 98290
425.238.2212
jking@perc-nw.com

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Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

21 April 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23D0239

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2023.04.21
09:57:47 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 23D0239		Turn-around Requested: 3 Day		Date: 4/11/2023		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)		
ARI Client Company: PERC		Phone: 4253460921		Page: of				
Client Contact: Kenny King				No. of Coolers: 8				
Client Project Name: Superlon Plastics				Cooler Temps: 18.6				
Client Project #: SLON		Samplers: King		Analysis Requested				Notes/Comments
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C		
SO-TC-302A-041123	04/11/23	12:40	SOIL	1	✓	✓		
SO-TC-302B-041123	04/11/23	12:50	SOIL	1	✓	✓		
SO-TC-302C-041123	04/11/23	13:00	SOIL	1	✓	✓		
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i> Printed Name: Kenny King Company: PERC Date & Time: 4/11/23 16:37		Received by: (Signature) <i>Jacob Swalter</i> Printed Name: Jacob Swalter Company: AR, LLC Date & Time: 04/11/23 1637		Relinquished by: (Signature) _____ Printed Name: _____ Company: _____ Date & Time: _____		Received by: (Signature) _____ Printed Name: _____ Company: _____ Date & Time: _____

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2023 09:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-302A-041123	23D0239-01	Solid	11-Apr-2023 12:40	11-Apr-2023 16:37
SO-TC-302B-041123	23D0239-02	Solid	11-Apr-2023 12:50	11-Apr-2023 16:37
SO-TC-302C-041123	23D0239-03	Solid	11-Apr-2023 13:00	11-Apr-2023 16:37



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2023 09:56

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 23D0239

Sample receipt

Samples as listed on the preceding page were received 11-Apr-2023 16:37 under ARI work order 23D0239. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): 2300239 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 2300239

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1637 18.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 7aa9708

Cooler Accepted by: IR Date: 04/11/23 Time: 1637

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

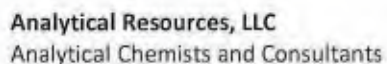
Samples Logged by: IR Date: 4/11/23 Time: 1641 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: 38~ Date: 04/11/23 Time: 1637

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2023 09:56

SO-TC-302A-041123
23D0239-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/11/2023 12:40

Instrument: ICP3 Analyst: SKD

Analyzed: 04/19/2023 15:57

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate Extract ID: 23D0239-01 A 02
Preparation Batch: BLD0386 Sample Size: 25 mL (wet)
Prepared: 04/15/2023 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.105	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0070	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2023 09:56

SO-TC-302A-041123
23D0239-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/11/2023 12:40

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/19/2023 13:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 23D0239-01 A 02

Preparation Batch: BLD0501

Sample Size: 20 g (wet)

Prepared: 04/19/2023

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	11.7	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2023 09:56

SO-TC-302B-041123
23D0239-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/11/2023 12:50

Instrument: ICP3 Analyst: SKD

Analyzed: 04/19/2023 15:51

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23D0239-02 A 02

Preparation Batch: BLD0386

Sample Size: 25 mL (wet)

Prepared: 04/15/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.167	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2023 09:56

SO-TC-302B-041123
23D0239-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/11/2023 12:50

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/19/2023 13:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 23D0239-02 A 02

Preparation Batch: BLD0501

Sample Size: 20 g (wet)

Prepared: 04/19/2023

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	11.7	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2023 09:56

SO-TC-302C-041123
23D0239-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/11/2023 13:00

Instrument: ICP3 Analyst: SKD

Analyzed: 04/19/2023 15:54

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23D0239-03 A 02

Preparation Batch: BLD0386

Sample Size: 25 mL (wet)

Prepared: 04/15/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.144	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2023 09:56

SO-TC-302C-041123
23D0239-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/11/2023 13:00

Instrument: Accumet AB150 Analyst: UW

Analyzed: 04/19/2023 13:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 23D0239-03 A 02

Preparation Batch: BLD0501

Sample Size: 20 g (wet)

Prepared: 04/19/2023

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	12.0	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2023 09:56

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLD0386 - EPA 6010D

Instrument: ICP3 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BLD0386-BLK1)						Prepared: 14-Apr-2023 Analyzed: 19-Apr-2023 15:37					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BLD0386-DUP1)						Source: 23D0239-01 Prepared: 14-Apr-2023 Analyzed: 19-Apr-2023 16:00					
Arsenic	0.123	0.0140	0.250	mg/L		0.105			15.40	20	J
Lead	ND	0.0065	0.100	mg/L		0.0070					U
Matrix Spike (BLD0386-MS1)						Source: 23D0239-01 Prepared: 14-Apr-2023 Analyzed: 19-Apr-2023 16:03					
Arsenic	4.28	0.0140	0.250	mg/L	4.00	0.105	104	75-125			
Lead	3.96	0.0065	0.100	mg/L	4.00	0.0070	98.8	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2023 09:56

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLD0501 - EPA 9045D

Instrument: Accumet AB150 Analyst: UW

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BLD0501-BS1)					Prepared: 19-Apr-2023 Analyzed: 19-Apr-2023 13:20					
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8			
Duplicate (BLD0501-DUP1)					Source: 23D0239-01 Prepared: 19-Apr-2023 Analyzed: 19-Apr-2023 13:20					
pH	11.8	0.01	0.01	pH Units	11.7	0.43	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2023 09:56

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023
WADOE	WA Dept of Ecology	C558	06/30/2023
WA-DW	Ecology - Drinking Water	C558	06/30/2023



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Apr-2023 09:56

Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: two data packages for your consideration

From EH SolidWaste <EHSolidWaste@tpchd.org>

Date Thu 5/4/2023 3:11 PM

To 'JEFFREY KING' <jking@perc-nw.com>; Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>

Thank you for the conversation today. I have reviewed this lab data and these soils are acceptable for disposal under WDA 2716R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>

Sent: Wednesday, May 3, 2023 3:53 PM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: two data packages for your consideration

CAUTION: External Email

Keith:

Attached are two data packages for your consideration. The soils associated with this data have high pH values but low leachability. We are currently negotiating with Waste Management to take these high (>12) pH soils but have not reached an agreement yet. We are asking for permission to dispose of this soils under waste disposal permit WDA Permit number 2716R. If you approve the soil for disposal we will communicate with LRI so that they know it is coming.

Once we reach agreement with Waste Management we will be sending any soils with high (>12) pH to them and not LRI.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-310A-050123	<1	<1	12.3	Asking for approval
SO-TC-310B-050123	<1	<1	12	Asking for approval
SO-TC-310C-050123	<1	<1	11.9	Asking for approval
SO-TC-311A-050223	<1	<1	12.3	Asking for approval
SO-TC-311B-050223	<1	<1	12.2	Asking for approval
SO-TC-311C-050223	<1	<1	12.3	Asking for approval

Thank you
Jeff

Jeffrey D King, PG/LG
President/Geologist
[Pacific Environmental & Redevelopment Corporation \(PERC\)](#)
8424 E Meadow Lake Drive
Snohomish, WA 98290
425.238.2212
jking@perc-nw.com

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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

May 3, 2023

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on May 2, 2023 from the Superlon Plastics, F&BI 305034 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jeff King (PRC), Kim Oliva-Membreno (PRC)
PRC0503R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 2, 2023 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 305034 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
305034 -01	SO-TC-310A-050123
305034 -02	SO-TC-310B-050123
305034 -03	SO-TC-310C-050123

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/03/23

Date Received: 05/02/23

Project: Superlon Plastics, F&BI 305034

Date Extracted: 05/02/23

Date Analyzed: 05/02/23

**RESULTS FROM THE ANALYSIS OF SOIL/SOLID SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-310A-050123 305034-01	12.3
SO-TC-310B-050123 305034-02	12.0
SO-TC-310C-050123 305034-03	11.9

* Due to the high pH of the samples, the result provided by this test method may be biased low.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-310A-050123	Client:	PERC
Date Received:	05/02/23	Project:	Superlon Plastics, F&BI 305034
Date Extracted:	05/02/23	Lab ID:	305034-01
Date Analyzed:	05/03/23	Data File:	305034-01.047
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-310B-050123	Client:	PERC
Date Received:	05/02/23	Project:	Superlon Plastics, F&BI 305034
Date Extracted:	05/02/23	Lab ID:	305034-02
Date Analyzed:	05/03/23	Data File:	305034-02.048
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-310C-050123	Client:	PERC
Date Received:	05/02/23	Project:	Superlon Plastics, F&BI 305034
Date Extracted:	05/02/23	Lab ID:	305034-03
Date Analyzed:	05/03/23	Data File:	305034-03.049
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 305034
Date Extracted:	05/02/23	Lab ID:	I3-344 mb
Date Analyzed:	05/03/23	Data File:	I3-344 mb.040
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/03/23

Date Received: 05/02/23

Project: Superlon Plastics, F&BI 305034

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL/SOLID
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 305034-03 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	12.3	12.3	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/03/23

Date Received: 05/02/23

Project: Superlon Plastics, F&BI 305034

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 305035-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	92	96	75-125	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	91	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased high; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Report To Kenny Kira

Company PERC

Address 8424 E Meadow Lake Drive

City, State, ZIP Snohomish, WA 98290

Phone (425) 346-0921 Email KKing@perc-nw.com

SAMPLERS (signature)

PROJECT NAME

Superlon Plastics

PO #

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

Page # _____ of _____

TURNAROUND TIME

Standard Turnaround

X RUSH 24 h per 6/2/23 AS

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

[illegible]

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>Kenny King</i>	Kenny King	PERC	5/2/23	12:18
Received by: <i>[Signature]</i>	VINET	FBI	5-2-23	12:1
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

May 3, 2023

Kenny King, Project Manager
Pacific Environmental and Redevelopment Corporation
8424 E Meadow Lake Drive
Snohomish, WA 98290

Dear Mr King:

Included are the results from the testing of material submitted on May 2, 2023 from the Superlon Plastics, F&BI 305035 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jeff King (PRC), Kim Oliva-Membreno (PRC)
PRC0503R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 2, 2023 by Friedman & Bruya, Inc. from the Pacific Environmental and Redevelopment Corporation Superlon Plastics, F&BI 305035 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Pacific Environmental and Redevelopment Corporation</u>
305035 -01	SO-TC-311A-050223
305035 -02	SO-TC-311B-050223
305035 -03	SO-TC-311C-050223

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/03/23

Date Received: 05/02/23

Project: Superlon Plastics, F&BI 305035

Date Extracted: 05/02/23

Date Analyzed: 05/02/23

**RESULTS FROM THE ANALYSIS OF SOIL/SOLID SAMPLES FOR pH
USING EPA METHOD 9045D**

<u>Sample ID</u> Laboratory ID	<u>pH</u>
SO-TC-311A-050223 305035-01	12.3
SO-TC-311B-050223 305035-02	12.2
SO-TC-311C-050223 305035-03	12.3

* Due to the high pH of the samples, the result provided by this test method may be biased low.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-311A-050223	Client:	PERC
Date Received:	05/02/23	Project:	Superlon Plastics, F&BI 305035
Date Extracted:	05/02/23	Lab ID:	305035-01
Date Analyzed:	05/03/23	Data File:	305035-01.042
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-311B-050223	Client:	PERC
Date Received:	05/02/23	Project:	Superlon Plastics, F&BI 305035
Date Extracted:	05/02/23	Lab ID:	305035-02
Date Analyzed:	05/03/23	Data File:	305035-02.045
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	SO-TC-311C-050223	Client:	PERC
Date Received:	05/02/23	Project:	Superlon Plastics, F&BI 305035
Date Extracted:	05/02/23	Lab ID:	305035-03
Date Analyzed:	05/03/23	Data File:	305035-03.046
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	PERC
Date Received:	NA	Project:	Superlon Plastics, F&BI 305035
Date Extracted:	05/02/23	Lab ID:	I3-344 mb
Date Analyzed:	05/03/23	Data File:	I3-344 mb.040
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/03/23

Date Received: 05/02/23

Project: Superlon Plastics, F&BI 305035

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF SOIL/SOLID
SAMPLES FOR pH BY METHOD 9045D**

Laboratory Code: 305035-03 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	12.3	12.3	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/03/23

Date Received: 05/02/23

Project: Superlon Plastics, F&BI 305035

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES
FOR TCLP METALS USING
EPA METHODS 6020B AND 1311**

Laboratory Code: 305035-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	92	96	75-125	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	91	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased high; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

305035

SAMPLE CHAIN OF CUSTODY

05/02/23

Ny

Report To Kenny King

Company PERC

Address 8424 E Meadow Lake Drive

City, State, ZIP Snohomish, WA 98290

Phone (425) 346-0921 Email KKing@perc-nw.com

SAMPLERS (signature)

PROJECT NAME

PO #

Superlon Plastics

REMARKS

INVOICE TO

Project Specific RLs - Yes / No

Page # _____ of _____

TURNAROUND TIME

- Standard Turnaround
X RUSH ~~24~~ 24 hr per KK 5/2/33
Rush charges authorized by: a

SAMPLE DISPOSAL

- Dispose after 30 days
- Archive Samples
- Other _____

						ANALYSES REQUESTED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Samples received at 20 °C

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE

PRINT NAME _____

COMPANY

DATE _____

TIME

Relinquished by:

Received by:

Relinquished by:

Received by:

Kenny King

VIN TA

PERC

FBI

5/2/23

5-2-23

12:18

12:49



RE: Two data packages for your review

From Keith Johnston <KJohnston@tpchd.org>

Date Mon 6/5/2023 1:56 PM

To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>

Hi Jeff,

I have reviewed the data and agree that these soils are appropriate for disposal under WDA 2716R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>

Sent: Monday, June 5, 2023 12:58 PM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: Two data packages for your review

CAUTION: External Email

Keith:

Attached are two data packages for your consideration. This data shown, and summarized below, are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 19 cubic yards of soil. We are asking for approval to dispose of this soil at the LRI landfill under permit number WDA 2716R.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-315A-052323	0.0635	1.15	8.97	Asking for approval

SO-TC-315B-052323	ND	ND	9.74	Asking for approval
SO-TC-315C-052323	0.0215	ND	12.4	Asking for approval
SO-TC-316A-052423	0.0325	ND	12.1	Asking for approval
SO-TC-316B-052423	0.032	ND	10.6	Asking for approval
SO-TC-316C-052423	0.0695	ND	9.55	Asking for approval

Thank you;

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

01 June 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23E0528

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2023.06.01
17:43:49 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ARI Assigned Number: 2350528		Turn-around Requested: 3 Day		Date: 5/23/2023		Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC		Phone: 4253460921		Page: of							
Client Contact: Kenny King				No. of Coolers: Cooler Temps:							
Client Project Name: Superlon Plastics				Analysis Requested						Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		pH 9045C					
Sample ID	Date	Time	Matrix	No. Containers							
SO-TC-315A-052323	05/23/23	11:00	SOIL	1	✓	✓					
SO-TC-315B-052323	05/23/23	11:10	SOIL	1	✓	✓					
SO-TC-315C-052323	05/23/23	11:20	SOIL	1	✓	✓					
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i> Printed Name: Kenny King Company: PERC Date & Time: 5/23/23 15:55		Received by: (Signature) <i>Kevin Cruz</i> Printed Name: Kevin Cruz Company: ARLLC Date & Time: 15:55 05232023		Relinquished by: (Signature) Printed Name: Company: Date & Time:		Received by: (Signature) Printed Name: Company: Date & Time:	

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Jun-2023 17:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-315A-052323	23E0528-01	Solid	22-May-2023 11:00	23-May-2023 15:55
SO-TC-315B-052323	23E0528-02	Solid	22-May-2023 11:10	23-May-2023 15:55
SO-TC-315C-052323	23E0528-03	Solid	22-May-2023 11:20	23-May-2023 15:55



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Jun-2023 17:40

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 23E0528

Sample receipt

Samples as listed on the preceding page were received 23-May-2023 15:55 under ARI work order 23E0528. For details regarding sample receipt, please refer to the Cooler Receipt Form.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client:

PERG
Kearney King KFC 05232023

Project Name:

SUPERLON PLASTICS
Superlon Plastics 05232023

COC No(s):

NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other:

Assigned ARI Job No:

23E0528

Tracking No:

NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?

YES

NO

Were custody papers included with the cooler?

YES

NO

Were custody papers properly filled out (ink, signed, etc.)

YES

NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 15:55

25.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: K008117

Cooler Accepted by:

KFC

Date: 05232023

Time: 15:55

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?

YES

NO

What kind of packing material was used?

Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:

Was sufficient ice used (if appropriate)?

NA

YES

NO

How were bottles sealed in plastic bags?

Individually

Grouped

Not

Did all bottles arrive in good condition (unbroken)?

YES

NO

Were all bottle labels complete and legible?

YES

NO

Did the number of containers listed on COC match with the number of containers received?

YES

NO

Did all bottle labels and tags agree with custody papers?

YES

NO

Were all bottles used correct for the requested analyses?

YES

NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)

NA

YES

NO

Were all VOC vials free of air bubbles?

NA

YES

NO

Was sufficient amount of sample sent in each bottle?

YES

NO

Date VOC Trip Blank was made at ARI

NA

Were the sample(s) split by ARI?

NA

YES

Date/Time:

Equipment:

Split by:

Samples Logged by:

WLD

Date: 05/23/23

Time:

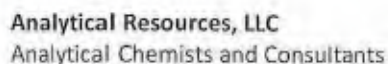
Labels checked by:

** Notify Project Manager of discrepancies or concerns **

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: KFC Date: 05/23/23 Time: 15:55



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Jun-2023 17:40

SO-TC-315A-052323

23E0528-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/22/2023 11:00

Instrument: ICP3 Analyst: DOE

Analyzed: 05/31/2023 09:01

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23E0528-01 A 02

Preparation Batch: BLE0733

Sample Size: 25 mL (wet)

Prepared: 05/25/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0635	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	1.15	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Jun-2023 17:40

SO-TC-315A-052323
23E0528-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/22/2023 11:00

Instrument: Accumet AB150 Analyst: HAL

Analyzed: 05/24/2023 14:47

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23E0528-01 A

Preparation Batch: BLE0706

Sample Size: 20.88 g (wet)

Prepared: 05/24/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.97	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Jun-2023 17:40

SO-TC-315B-052323
23E0528-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/22/2023 11:10

Instrument: ICP3 Analyst: DOE

Analyzed: 05/31/2023 09:04

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23E0528-02 A 02

Preparation Batch: BLE0733

Sample Size: 25 mL (wet)

Prepared: 05/25/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Jun-2023 17:40

SO-TC-315B-052323
23E0528-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/22/2023 11:10

Instrument: Accumet AB150 Analyst: HAL

Analyzed: 05/24/2023 14:47

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23E0528-02 A

Preparation Batch: BLE0706

Sample Size: 20.71 g (wet)

Prepared: 05/24/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.74	pH Units	



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8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Jun-2023 17:40

SO-TC-315C-052323
23E0528-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/22/2023 11:20

Instrument: ICP3 Analyst: DOE

Analyzed: 05/30/2023 08:41

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23E0528-03 A 02

Preparation Batch: BLE0735

Sample Size: 25 mL (wet)

Prepared: 05/25/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0215	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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8424 E Meadow Lake Drive
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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
01-Jun-2023 17:40

SO-TC-315C-052323
23E0528-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/22/2023 11:20

Instrument: Accumet AB150 Analyst: HAL

Analyzed: 05/24/2023 14:47

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23E0528-03 A

Preparation Batch: BLE0706

Sample Size: 20.62 g (wet)

Prepared: 05/24/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	12.4	pH Units	



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8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Jun-2023 17:40

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLE0733 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BLE0733-BLK1)					Prepared: 25-May-2023 Analyzed: 31-May-2023 08:34					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



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Reported:
01-Jun-2023 17:40

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLE0735 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BLE0735-BLK1)						Prepared: 25-May-2023 Analyzed: 30-May-2023 08:35					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BLE0735-DUP1)						Source: 23E0528-03 Prepared: 25-May-2023 Analyzed: 30-May-2023 08:46					
Arsenic	0.0210	0.0140	0.250	mg/L		0.0215			2.35	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BLE0735-MS1)						Source: 23E0528-03 Prepared: 25-May-2023 Analyzed: 30-May-2023 08:48					
Arsenic	4.36	0.0140	0.250	mg/L	4.00	0.0215	109	75-125			
Lead	4.19	0.0065	0.100	mg/L	4.00	ND	105	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Jun-2023 17:40

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLE0706 - EPA 9045D

Instrument: Accumet AB150 Analyst: HAL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BLE0706-BS1)									
Prepared: 24-May-2023 Analyzed: 24-May-2023 14:47									
pH	7.01	0.01	0.01	pH Units	7.00	100	99.2-100.8		



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Project Manager: Kenny King

Reported:
01-Jun-2023 17:40

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
WADOE	WA Dept of Ecology	C558	06/30/2023
WA-DW	Ecology - Drinking Water	C558	06/30/2023



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8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Jun-2023 17:40

Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
D	The reported value is from a dilution
H	Hold time violation - Hold time was exceeded.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

01 June 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23E0539

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2023.06.01 17:50:38
-07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

Chain of Custody Record & Laboratory Analysis Request			
ARI Assigned Number: 2360534		Turn-around Requested: 3 Day	
ARI Client Company: PERC		Phone: 4253460921	
Client Contact: Kenny King		Date: 5/24/2023	
Client Project Name: Superlon Plastics		Page: of	
Client Project #: SLON		No. of Coolers: Cooler Temps:	
Samplers: King		Analysis Requested	
LP 1311 Pb Only		9045C	



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

[illegible]

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under RSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Jun-2023 17:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-316A-052423	23E0539-01	Solid	24-May-2023 10:50	24-May-2023 13:16
SO-TC-316B-052423	23E0539-02	Solid	24-May-2023 11:00	24-May-2023 13:16
SO-TC-316C-052423	23E0539-03	Solid	24-May-2023 11:10	24-May-2023 13:16



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Jun-2023 17:49

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 23E0539

Sample receipt

Samples as listed on the preceding page were received 24-May-2023 13:16 under ARI work order 23E0539. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): 23E0539 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 23E0539

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 13:16

24.3

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 1004703

Cooler Accepted by: EL

Date: May 24/23

Time: 13:16

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: MD Date: 05/24/23 Time: 14:17 Labels checked by: MD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

IND 05/24/23

ARI Work Order: 230 23E0539

Cooler#:	1	Temperature(°C):	
Sample ID		Bottle Count	Bottle Type
3 samples received			
> 6.0°C			

Cooler#:		Temperature(°C):	
Sample ID		Bottle Count	Bottle Type

Cooler#:		Temperature(°C):	
Sample ID		Bottle Count	Bottle Type

Cooler#:		Temperature(°C):	
Sample ID		Bottle Count	Bottle Type

Completed by: EL

Date: May 24/23 Time: 13.6



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Jun-2023 17:49

SO-TC-316A-052423
23E0539-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/24/2023 10:50

Instrument: ICP3 Analyst: DOE

Analyzed: 05/30/2023 11:07

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate Extract ID: 23E0539-01 A 02
Preparation Batch: BLE0766 Sample Size: 25 mL (wet)
Prepared: 05/26/2023 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0325	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
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Project Manager: Kenny King

Reported:
01-Jun-2023 17:49

SO-TC-316A-052423
23E0539-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/24/2023 10:50

Instrument: Accumet AB150 Analyst: HAL

Analyzed: 05/31/2023 15:28

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23E0539-01 A 02

Preparation Batch: BLE0849

Sample Size: 20.41 g (wet)

Prepared: 05/31/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	12.1	pH Units	



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Reported:
01-Jun-2023 17:49

SO-TC-316B-052423
23E0539-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/24/2023 11:00

Instrument: ICP3 Analyst: DOE

Analyzed: 05/30/2023 11:57

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23E0539-02 A 02

Preparation Batch: BLE0764

Sample Size: 25 mL (wet)

Prepared: 05/26/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0320	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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Project Manager: Kenny King

Reported:
01-Jun-2023 17:49

SO-TC-316B-052423
23E0539-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/24/2023 11:00

Instrument: Accumet AB150 Analyst: HAL

Analyzed: 05/31/2023 15:28

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23E0539-02 A 02

Preparation Batch: BLE0849

Sample Size: 20.49 g (wet)

Prepared: 05/31/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.6	pH Units	



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Reported:
01-Jun-2023 17:49

SO-TC-316C-052423
23E0539-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/24/2023 11:10

Instrument: ICP3 Analyst: DOE

Analyzed: 05/30/2023 12:00

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23E0539-03 A 02

Preparation Batch: BLE0764

Sample Size: 25 mL (wet)

Prepared: 05/26/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0695	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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Reported:
01-Jun-2023 17:49

SO-TC-316C-052423
23E0539-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/24/2023 11:10

Instrument: Accumet AB150 Analyst: HAL

Analyzed: 05/31/2023 15:28

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23E0539-03 A 02

Preparation Batch: BLE0849

Sample Size: 20.31 g (wet)

Prepared: 05/31/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.55	pH Units	



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Reported:
01-Jun-2023 17:49

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLE0764 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BLE0764-BLK1)					Prepared: 26-May-2023 Analyzed: 30-May-2023 11:02					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
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Reported:
01-Jun-2023 17:49

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLE0766 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BLE0766-BLK1)					Prepared: 26-May-2023 Analyzed: 30-May-2023 11:05						
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BLE0766-DUP1)					Source: 23E0539-01 Prepared: 26-May-2023 Analyzed: 30-May-2023 11:10						
Arsenic	0.0275	0.0140	0.250	mg/L		0.0325			16.70	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BLE0766-MS1)					Source: 23E0539-01 Prepared: 26-May-2023 Analyzed: 30-May-2023 11:13						
Arsenic	4.60	0.0140	0.250	mg/L	4.00	0.0325	114	75-125			
Lead	4.45	0.0065	0.100	mg/L	4.00	ND	111	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Jun-2023 17:49

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLE0849 - EPA 9045D

Instrument: Accumet AB150 Analyst: HAL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BLE0849-BS1)					Prepared: 31-May-2023		Analyzed: 31-May-2023 15:28			
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8			
Duplicate (BLE0849-DUP1)					Source: 23E0539-01		Prepared: 31-May-2023		Analyzed: 31-May-2023 15:28	
pH	12.1	0.01	0.01	pH Units	12.1			0.08	20	



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Project Manager: Kenny King

Reported:
01-Jun-2023 17:49

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
WADOE	WA Dept of Ecology	C558	06/30/2023
WA-DW	Ecology - Drinking Water	C558	06/30/2023



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
01-Jun-2023 17:49

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
H	Hold time violation - Hold time was exceeded.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Two Data packages for your review and approval

From Keith Johnston <KJohnston@tpchd.org>

Date Mon 6/12/2023 8:19 AM

To 'JEFFREY KING' <jking@percnw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>

Hi Jeff,

I have reviewed the data and these soils are appropriate for disposal under WDA 2716R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@percnw.com>

Sent: Monday, June 12, 2023 7:59 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: Two Data packages for your review and approval

CAUTION: External Email

Keith:

Attached are two data packages for your consideration. This data shown, and summarized below, are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 19 cubic yards of soil. We are asking for approval to dispose of this soil at the LRI landfill under permit number WDA 2716R.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-317A-053023	0.017	ND	12	Asking for approval

SO-TC-317B-053023	ND	0.011	12.1	Asking for approval
SO-TC-317C-053023	0.018	ND	12.1	Asking for approval
SO-TC-318A-053123	ND	ND	9.34	Asking for approval
SO-TC-318C-053123	0.0395	ND	9.26	Asking for approval
SO-TC-318C-053123	0.043	0.524	9.34	Asking for approval

Thank you;

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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Thank you.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

10 June 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23E0637

Associated SDG ID(s)
N/A

Shelly Fishel

Digitally signed by Shelly
Fishel
Date: 2023.06.10 08:59:31
-07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 13 E0637		Turn-around Requested: 3 Day			Date: 5/30/2023									
ARI Client Company: PERC		Phone: 4253460921			Page: of									
Client Contact: Kenny King					No. of Coolers: 4									
					Cooler Temps: 24.2									
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments		
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID		Date	Time	Matrix	No. Containers									
SO-TC-317A-053023		05/30/23	09:10	SOIL	1	✓	✓							
SO-TC-317B-053023		05/30/23	09:20	SOIL	1	✓	✓							
SO-TC-317C-053023		05/30/23	09:30	SOIL	1	✓	✓							
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Jacob Swalter</i>			Relinquished by: (Signature)			Received by: (Signature)			
		Printed Name: Kenny King			Printed Name: Jacob Swalter			Printed Name:			Printed Name:			
		Company: PERC			Company: ARI, LLC			Company:			Company:			
		Date & Time: 5/30/23 16:17			Date & Time: 5/30/23 16:17			Date & Time:			Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 08:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-317A-053023	23E0637-01	Solid	30-May-2023 09:10	30-May-2023 16:17
SO-TC-317B-053023	23E0637-02	Solid	30-May-2023 09:20	30-May-2023 16:17
SO-TC-317C-053023	23E0637-03	Solid	30-May-2023 09:30	30-May-2023 16:17



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 08:53

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 23E0637

Sample receipt

Samples as listed on the preceding page were received 30-May-2023 16:17 under ARI work order 23E0637. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 23E0637

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES YES NO

Were custody papers properly filled out (ink, signed, etc.) YES YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1617 24.2

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# J009208

Cooler Accepted by: JS Date: 05/30/23 Time: 1617

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: MD Date: 05/30/23 Time: 1626 Labels checked by: MD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 23E0637

Cooler#: _____ Temperature(°C): 24.2

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received above 6°C

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: JA Date: 05/20/23 Time: 1617



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 08:53

SO-TC-317A-053023
23E0637-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/30/2023 09:10

Instrument: ICP3 Analyst: SKD

Analyzed: 06/07/2023 16:07

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate Extract ID: 23E0637-01 A 02
Preparation Batch: BLF0128 Sample Size: 25 mL (wet)
Prepared: 06/06/2023 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0170	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 08:53

SO-TC-317A-053023
23E0637-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/30/2023 09:10

Instrument: Accumet AB150 Analyst: HAL

Analyzed: 05/31/2023 15:28

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23E0637-01 A

Preparation Batch: BLE0849

Sample Size: 20.35 g (wet)

Prepared: 05/31/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	12.0	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 08:53

SO-TC-317B-053023
23E0637-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/30/2023 09:20

Instrument: ICP3 Analyst: SKD

Analyzed: 06/07/2023 15:51

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23E0637-02 A 02

Preparation Batch: BLF0128

Sample Size: 25 mL (wet)

Prepared: 06/06/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0110	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 08:53

SO-TC-317B-053023
23E0637-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/30/2023 09:20

Instrument: Accumet AB150 Analyst: HAL

Analyzed: 05/31/2023 15:28

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23E0637-02 A

Preparation Batch: BLE0849

Sample Size: 20.57 g (wet)

Prepared: 05/31/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	12.1	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 08:53

SO-TC-317C-053023
23E0637-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/30/2023 09:30

Instrument: ICP3 Analyst: SKD

Analyzed: 06/07/2023 15:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23E0637-03 A 02

Preparation Batch: BLF0128

Sample Size: 25 mL (wet)

Prepared: 06/06/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0180	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 08:53

SO-TC-317C-053023
23E0637-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/30/2023 09:30

Instrument: Accumet AB150 Analyst: HAL

Analyzed: 05/31/2023 15:28

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23E0637-03 A

Preparation Batch: BLE0849

Sample Size: 20.07 g (wet)

Prepared: 05/31/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	12.1	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 08:53

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLF0128 - EPA 6010D

Instrument: ICP3 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BLF0128-BLK1)						Prepared: 06-Jun-2023 Analyzed: 07-Jun-2023 15:49					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BLF0128-DUP1)						Source: 23E0637-01 Prepared: 06-Jun-2023 Analyzed: 07-Jun-2023 16:10					
Arsenic	0.0230	0.0140	0.250	mg/L		0.0170			30.00	20	L, J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BLF0128-MS1)						Source: 23E0637-01 Prepared: 06-Jun-2023 Analyzed: 07-Jun-2023 16:13					
Arsenic	4.09	0.0140	0.250	mg/L	4.00	0.0170	102	75-125			
Lead	3.97	0.0065	0.100	mg/L	4.00	ND	99.2	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 08:53

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLE0849 - EPA 9045D

Instrument: Accumet AB150 Analyst: HAL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BLE0849-BS1)									
Prepared: 31-May-2023 Analyzed: 31-May-2023 15:28									
pH	6.97	0.01	0.01	pH Units	7.00	99.6	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 08:53

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
WADOE	WA Dept of Ecology	C558	06/30/2023
WA-DW	Ecology - Drinking Water	C558	06/30/2023



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 08:53

Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

10 June 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23E0684

Associated SDG ID(s)
N/A

Shelly Fishel
Digitally signed by Shelly Fishel
Date: 2023.06.10 09:14:03
-07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 23E0684	Turn-around Requested: 3 Day	Date: 5/31/2023
ARI Client Company: PERC	Phone: 4253460921	Page: of
Client Contact: Kenny King		No. of Coolers: 1 Cooler Temps: 22.8°



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-318A-053123	05/31/23	11:10	SOIL	1	✓	✓							
SO-TC-318B-053123	05/31/23	11:20	SOIL	1	✓	✓							
SO-TC-318C-053123	05/31/23	11:30	SOIL	1	✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: <i>Matthew Pomeroy</i>		Relinquished by:		Received by:		
					(Signature)		(Signature)		(Signature)		(Signature)		
					Printed Name: Kenny King		Printed Name: Matthew Pomeroy		Printed Name:		Printed Name:		
					Company: PERC		Company: ARLLC		Company:		Company:		
					Date & Time: 5/31/23 16:14		Date & Time: 05/31/23 16:14		Date & Time:		Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 09:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-318A-053123	23E0684-01	Solid	31-May-2023 11:10	31-May-2023 16:14
SO-TC-318B-053123	23E0684-02	Solid	31-May-2023 11:20	31-May-2023 16:14
SO-TC-318C-053123	23E0684-03	Solid	31-May-2023 11:30	31-May-2023 16:14



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 09:04

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 23E0684

Sample receipt

Samples as listed on the preceding page were received 31-May-2023 16:14 under ARI work order 23E0684. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 23E0684

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1614

22.8°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 204208

Cooler Accepted by: MP

Date: 05/31/23

Time: 1614

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? ...

Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES NO

How were bottles sealed in plastic bags? _____

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI: _____

NA

Were the sample(s) split by ARI? NA

YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: MP

Date: 05/31/23

Time: 1634

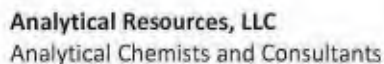
Labels checked by: MD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: MP Date: 01/31/23 Time: 1619

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 09:04

SO-TC-318A-053123
23E0684-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/31/2023 11:10

Instrument: ICP3 Analyst: SKD

Analyzed: 06/07/2023 16:34

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate Extract ID: 23E0684-01 A 02
Preparation Batch: BLF0127 Sample Size: 25 mL (wet)
Prepared: 06/06/2023 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 09:04

SO-TC-318A-053123
23E0684-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/31/2023 11:10

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 06/05/2023 15:46

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23E0684-01 A

Preparation Batch: BLF0101

Sample Size: 20.06 g (wet)

Prepared: 06/05/2023

Final Volume: 20.06 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.34	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 09:04

SO-TC-318B-053123
23E0684-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/31/2023 11:20

Instrument: ICP3 Analyst: SKD

Analyzed: 06/07/2023 16:37

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23E0684-02 A 02

Preparation Batch: BLF0127

Sample Size: 25 mL (wet)

Prepared: 06/06/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0395	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 09:04

SO-TC-318B-053123
23E0684-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/31/2023 11:20

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 06/05/2023 15:46

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23E0684-02 A

Preparation Batch: BLF0101

Sample Size: 20.02 g (wet)

Prepared: 06/05/2023

Final Volume: 20.02 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.26	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 09:04

SO-TC-318C-053123
23E0684-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/31/2023 11:30

Instrument: ICP3 Analyst: SKD

Analyzed: 06/07/2023 16:40

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23E0684-03 A 02

Preparation Batch: BLF0127

Sample Size: 25 mL (wet)

Prepared: 06/06/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0430	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.524	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 09:04

SO-TC-318C-053123
23E0684-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/31/2023 11:30

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 06/05/2023 15:46

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23E0684-03 A

Preparation Batch: BLF0101

Sample Size: 20.04 g (wet)

Prepared: 06/05/2023

Final Volume: 20.04 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.34	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 09:04

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLF0127 - EPA 6010D

Instrument: ICP3 Analyst: SKD

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BLF0127-BLK1)						Prepared: 06-Jun-2023 Analyzed: 07-Jun-2023 15:46				
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 09:04

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLF0101 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BLF0101-BS1)						Prepared: 05-Jun-2023 Analyzed: 05-Jun-2023 15:46				
pH	6.99	0.01	0.01	pH Units	7.00	99.9	99.2-100.8			
Duplicate (BLF0101-DUP1)						Source: 23E0684-01 Prepared: 05-Jun-2023 Analyzed: 05-Jun-2023 15:46				
pH	9.24	0.01	0.01	pH Units	9.34	1.08	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 09:04

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
WADOE	WA Dept of Ecology	C558	06/30/2023
WA-DW	Ecology - Drinking Water	C558	06/30/2023



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Jun-2023 09:04

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Three data packages for your consideration.

From Keith Johnston <KJohnston@tpchd.org>

Date Fri 6/23/2023 3:17 PM

To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>

Hi Jeff,

I have reviewed this lab data and these soils are appropriate for disposal under WDA 2716R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>

Sent: Tuesday, June 20, 2023 10:15 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: Three data packages for your consideration.

CAUTION: External Email

Keith:

Attached are three data packages for your consideration. This data attached, and summarized below, are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 19 cubic yards of soil. We are asking for approval to dispose of this soil at the LRI landfill under permit number WDA 2716R.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-319A-060523	0.0165	ND	9.11	Asking for approval

SO-TC-319B-060523	ND	0.0145	9.34	Asking for approval
SO-TC-319C-060523	ND	0.033	9.69	Asking for approval
SO-TC-320A-060823	0.0165	ND	12.3	Asking for approval
SO-TC-320B-060823	ND	ND	12.2	Asking for approval
SO-TC-320C-060823	ND	ND	10.6	Asking for approval
SO-TC-321A-061323	ND	ND	12.1	Asking for approval
SO-TC-321B-061323	ND	ND	11.4	Asking for approval
SO-TC-321C-061323	0.03	ND	9.79	Asking for approval

Thank you;

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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Thank you.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

17 June 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23F0115

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2023.06.17
10:46:08 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 23F0115	Turn-around Requested: 3 Day	Date: 6/5/2023
ARI Client Company: PERC	Phone: 4253460921	Page: of
Client Contact: Kenny King		No. of Coolers: 1 Cooler Temps: 24.6



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments			
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C										
Sample ID	Date	Time	Matrix	No. Containers												
SO-TC-319A-060523	06/05/23	11:40	SOIL	1	✓	✓										
SO-TC-319B-060523	06/05/23	11:50	SOIL	1	✓	✓										
SO-TC-319C-060523	06/05/23	12:00	SOIL	1	✓	✓										
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Phillip Bates</i>			Relinquished by: (Signature)			Received by: (Signature)		
					Printed Name: <i>Kenny King</i>			Printed Name: <i>Phillip Bates</i>			Printed Name:			Printed Name:		
					Company: <i>PERC</i>			Company: <i>AB</i>			Company:			Company:		
					Date & Time: <i>6/5/23 16:14</i>			Date & Time: <i>06/05/23 16:14</i>			Date & Time:			Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 10:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-319A-060523	23F0115-01	Solid	05-Jun-2023 11:40	05-Jun-2023 16:14
SO-TC-319B-060523	23F0115-02	Solid	05-Jun-2023 11:50	05-Jun-2023 16:14
SO-TC-319C-060523	23F0115-03	Solid	05-Jun-2023 12:00	05-Jun-2023 16:14



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 10:37

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 23F0115

Sample receipt

Samples as listed on the preceding page were received 05-Jun-2023 16:14 under ARI work order 23F0115. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superion Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 23F015

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 16:14

24.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 7009708

Cooler Accepted by: PJB Date: 06/05/23 Time: 16:14

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

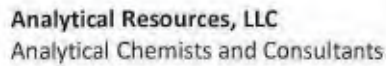
Samples Logged by: MD Date: 06/05/23 Time: 16:14 Labels checked by: MD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



ARI Work Order: 23 F0115

Cooler#: _____ Temperature(°C): 24.6

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received
above 60°C

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: PJA Date: 06/05/23 Time: 16:14

00070F

Cooler Temperature Compliance Form

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 10:37

SO-TC-319A-060523

23F0115-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/05/2023 11:40

Instrument: ICP3 Analyst: DOE

Analyzed: 06/15/2023 10:47

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate
Preparation Batch: BLF0363 Sample Size: 25 mL (wet)
Prepared: 06/14/2023 Final Volume: 25 mL Extract ID: 23F0115-01 A 02

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0165	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 10:37

SO-TC-319A-060523
23F0115-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/05/2023 11:40

Instrument: Accumet AB150 Analyst: EJK

Analyzed: 06/14/2023 17:03

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23F0115-01 A

Preparation Batch: BLF0378

Sample Size: 20.29 g (wet)

Prepared: 06/13/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.11	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 10:37

SO-TC-319B-060523
23F0115-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/05/2023 11:50

Instrument: ICP3 Analyst: DOE

Analyzed: 06/15/2023 10:50

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23F0115-02 A 02

Preparation Batch: BLF0363

Sample Size: 25 mL (wet)

Prepared: 06/14/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0145	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 10:37

SO-TC-319B-060523
23F0115-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/05/2023 11:50

Instrument: Accumet AB150 Analyst: EJK

Analyzed: 06/14/2023 17:03

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23F0115-02 A

Preparation Batch: BLF0378

Sample Size: 20.27 g (wet)

Prepared: 06/13/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.34	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 10:37

SO-TC-319C-060523
23F0115-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/05/2023 12:00

Instrument: ICP3 Analyst: DOE

Analyzed: 06/15/2023 10:52

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23F0115-03 A 02

Preparation Batch: BLF0363

Sample Size: 25 mL (wet)

Prepared: 06/14/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	0.0330	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 10:37

SO-TC-319C-060523
23F0115-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/05/2023 12:00

Instrument: Accumet AB150 Analyst: EJK

Analyzed: 06/14/2023 17:03

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23F0115-03 A

Preparation Batch: BLF0378

Sample Size: 20.27 g (wet)

Prepared: 06/13/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.69	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 10:37

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLF0363 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BLF0363-BLK1)					Prepared: 14-Jun-2023 Analyzed: 15-Jun-2023 08:58					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 10:37

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLF0378 - EPA 9045D

Instrument: Accumet AB150 Analyst: EJK

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BLF0378-BS1)						Prepared: 13-Jun-2023 Analyzed: 14-Jun-2023 12:55				
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8			
Duplicate (BLF0378-DUP1)						Source: 23F0115-01 Prepared: 13-Jun-2023 Analyzed: 14-Jun-2023 17:03				
pH	9.15	0.01	0.01	pH Units	9.11	0.44	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 10:37

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
WADOE	WA Dept of Ecology	C558	06/30/2023
WA-DW	Ecology - Drinking Water	C558	06/30/2023



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 10:37

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

17 June 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23F0195

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2023.06.17
11:41:58 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 23F0195		Turn-around Requested: 3 Day			Date: 6/8/2023				Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC		Phone: 4253460921			Page: of									
Client Contact: Kenny King					No. of Coolers: Cooler Temps:									
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments		
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-320A-060823	06/08/23	10:30	SOIL	1	✓	✓								
SO-TC-320B-060823	06/08/23	10:40	SOIL	1	✓	✓								
SO-TC-320C-060823	06/08/23	10:50	SOIL	1	✓	✓								
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Roman</i>		Relinquished by: (Signature)		Received by: (Signature)			
					Printed Name: Kenny King		Printed Name: Roman		Printed Name:		Printed Name:			
					Company: PERC		Company: ARI		Company:		Company:			
					Date & Time: 6/8/23 15:45		Date & Time: 6/8/23 1545		Date & Time:		Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 11:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-320A-060823	23F0195-01	Solid	08-Jun-2023 10:30	08-Jun-2023 15:45
SO-TC-320B-060823	23F0195-02	Solid	08-Jun-2023 10:40	08-Jun-2023 15:45
SO-TC-320C-060823	23F0195-03	Solid	08-Jun-2023 10:50	08-Jun-2023 15:45



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 11:32

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 23F0195

Sample receipt

Samples as listed on the preceding page were received 08-Jun-2023 15:45 under ARI work order 23F0195. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC Project Name: Superlon Plastics
COC No(s): NA Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA
Assigned ARI Job No: 23F0195 Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 268°
Time 1545
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 7708
Cooler Accepted by: [Signature] Date: 6/8/23 Time: 1545

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO NO 06/08/23
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: NC Date: 06/08/23 Time: 16:25 Labels checked by: EL

** Notify Project Manager of discrepancies or concerns **

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Cooler Temperature Compliance Form

[illegible]



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 11:32

SO-TC-320A-060823

23F0195-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/08/2023 10:30

Instrument: ICP3 Analyst: DOE

Analyzed: 06/16/2023 10:11

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23F0195-01 B 01

Preparation Batch: BLF0441

Sample Size: 25 mL (wet)

Prepared: 06/15/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0165	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 11:32

SO-TC-320A-060823
23F0195-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/08/2023 10:30

Instrument: Accumet AB150 Analyst: EJK

Analyzed: 06/14/2023 17:03

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23F0195-01 B

Preparation Batch: BLF0378

Sample Size: 20.16 g (wet)

Prepared: 06/13/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	12.3	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 11:32

SO-TC-320B-060823
23F0195-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/08/2023 10:40

Instrument: ICP3 Analyst: DOE

Analyzed: 06/16/2023 10:14

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23F0195-02 B 01

Preparation Batch: BLF0441

Sample Size: 25 mL (wet)

Prepared: 06/15/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 11:32

SO-TC-320B-060823
23F0195-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/08/2023 10:40

Instrument: Accumet AB150 Analyst: EJK

Analyzed: 06/14/2023 17:03

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23F0195-02 B

Preparation Batch: BLF0378

Sample Size: 20.66 g (wet)

Prepared: 06/13/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	12.2	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 11:32

SO-TC-320C-060823
23F0195-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/08/2023 10:50

Instrument: ICP3 Analyst: DOE

Analyzed: 06/16/2023 10:17

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23F0195-03 B 01

Preparation Batch: BLF0441

Sample Size: 25 mL (wet)

Prepared: 06/15/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 11:32

SO-TC-320C-060823
23F0195-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/08/2023 10:50

Instrument: Accumet AB150 Analyst: EJK

Analyzed: 06/14/2023 17:03

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23F0195-03 B

Preparation Batch: BLF0378

Sample Size: 20.41 g (wet)

Prepared: 06/13/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.6	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 11:32

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLF0441 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BLF0441-BLK1)						Prepared: 15-Jun-2023 Analyzed: 16-Jun-2023 09:19				
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 11:32

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLF0378 - EPA 9045D

Instrument: Accumet AB150 Analyst: EJK

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BLF0378-BS1)									
Prepared: 13-Jun-2023 Analyzed: 14-Jun-2023 12:55									
pH	6.96	0.01	0.01	pH Units	7.00	99.4	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 11:32

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
WADOE	WA Dept of Ecology	C558	06/30/2023
WA-DW	Ecology - Drinking Water	C558	06/30/2023



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 11:32

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

17 June 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23F0324

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2023.06.17
13:21:53 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number. 23F0324	Turn-around Requested: 3 Day	Date. 6/13/2023
ARI Client Company. PERC	Phone. 4253460921	Page of
Client Contact: Kenny King		No. of Coolers
Client Project Name:		Cooler Temps:



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-685-6200 206-685-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-321A-061323	06/13/23	12:10	SOIL	1	✓	✓							
SO-TC-321B-061323	06/13/23	12:20	SOIL	1	✓	✓							
SO-TC-321C-061323	06/13/23	12:30	SOIL	1	✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Roman</i>		Relinquished by: (Signature)		Received by: (Signature)		
					Printed Name <i>Kenny King</i>		Printed Name <i>Roman</i>		Printed Name		Printed Name		
					Company <i>PERC</i>		Company <i>ARC</i>		Company		Company		
					Date & Time <i>6/13/23</i>		Date & Time <i>6/13/23 1610</i>		Date & Time		Date & Time		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/RSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 13:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-321A-061323	23F0324-01	Solid	13-Jun-2023 12:10	13-Jun-2023 16:10
SO-TC-321B-061323	23F0324-02	Solid	13-Jun-2023 12:20	13-Jun-2023 16:10
SO-TC-321C-061323	23F0324-03	Solid	13-Jun-2023 12:30	13-Jun-2023 16:10



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 13:20

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 23F0324

Sample receipt

Samples as listed on the preceding page were received 13-Jun-2023 16:10 under ARI work order 23F0324. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): 23F0324 NA
Assigned ARI Job No: 23F0324

Project Name Superion Plastics
Delivered by Fed-Ex UPS Courier Hand Delivered Other _____
Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1610 223
If cooler temperature is out of compliance fill out form 00070F
Cooler Accepted by: M Date: 6/13/23 Time: 1610 Temp Gun ID#: 9708

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel P... NA Foam Block Paper Other _____
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI NA
Were the sample(s) spill by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by MD Date: 06/13/23 Time: 16:16 Labels checked by: MD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 23F0324

Cooler#: _____ Temperature(°C): 22.1°

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

samples above
6°C

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: R Date: 6/17/23 Time: 1610



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 13:20

SO-TC-321A-061323

23F0324-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/13/2023 12:10

Instrument: ICP3 Analyst: DOE

Analyzed: 06/16/2023 09:31

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23F0324-01 A 01

Preparation Batch: BLF0441

Sample Size: 25 mL (wet)

Prepared: 06/15/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 13:20

SO-TC-321A-061323
23F0324-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/13/2023 12:10

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 06/15/2023 16:10

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23F0324-01 A 01

Preparation Batch: BLF0452

Sample Size: 20.2961 g (wet)

Prepared: 06/15/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	12.1	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 13:20

SO-TC-321B-061323
23F0324-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/13/2023 12:20

Instrument: ICP3 Analyst: DOE

Analyzed: 06/16/2023 09:34

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23F0324-02 A 01

Preparation Batch: BLF0441

Sample Size: 25 mL (wet)

Prepared: 06/15/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 13:20

SO-TC-321B-061323
23F0324-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/13/2023 12:20

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 06/15/2023 16:10

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23F0324-02 A 01

Preparation Batch: BLF0452

Sample Size: 20.7911 g (wet)

Prepared: 06/15/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	11.4	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 13:20

SO-TC-321C-061323
23F0324-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/13/2023 12:30

Instrument: ICP3 Analyst: DOE

Analyzed: 06/16/2023 09:37

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23F0324-03 A 01

Preparation Batch: BLF0441

Sample Size: 25 mL (wet)

Prepared: 06/15/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0300	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 13:20

SO-TC-321C-061323
23F0324-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/13/2023 12:30

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 06/15/2023 16:10

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23F0324-03 A 01

Preparation Batch: BLF0452

Sample Size: 20.2915 g (wet)

Prepared: 06/15/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.79	pH Units	

PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 13:20

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLF0441 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BLF0441-BLK1)						Prepared: 15-Jun-2023 Analyzed: 16-Jun-2023 09:19					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U

PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 13:20

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLF0452 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BLF0452-BS1)						Prepared: 15-Jun-2023 Analyzed: 15-Jun-2023 16:10					
pH	7.03	0.01	0.01	pH Units	7.00		100	99.2-100.8			
Duplicate (BLF0452-DUP1)						Source: 23F0324-01 Prepared: 15-Jun-2023 Analyzed: 15-Jun-2023 16:10					
pH	12.1	0.01	0.01	pH Units		12.1			0.08	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 13:20

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
WADOE	WA Dept of Ecology	C558	06/30/2023
WA-DW	Ecology - Drinking Water	C558	06/30/2023



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Jun-2023 13:20

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: One data package for your consideration and approval

From Keith Johnston <KJohnston@tpchd.org>

Date Tue 6/27/2023 9:59 AM

To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>

Hi Jeff,

I have reviewed the data and these soils are appropriate for disposal under WDA 2716R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>

Sent: Tuesday, June 27, 2023 8:56 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: One data package for your consideration and approval

CAUTION: External Email

Keith:

Attached is one data packages for your consideration. This data shown, and summarized below, are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 19 cubic yards of soil. We are asking for approval to dispose of this soil at the LRI landfill under permit number WDA 2716R.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-322A-061423	ND	ND	9.73	Asking for approval

SO-TC-322B-061423	ND	ND	11.3	Asking for approval
SO-TC-322C-061423	0.023	ND	10.6	Asking for approval

Thank you

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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Thank you.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

22 June 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23F0362

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed by
Phillip Bates
Date: 2023.06.22
10:55:10 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 23F0362		Turn-around Requested: 3 Day		Date: 6/14/2023				Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC		Phone: 4253460921		Page: of									
Client Contact: Kenny King				No. of Coolers: Cooler Temps:									
Client Project Name: Superlon Plastics				Analysis Requested						Notes/Comments			
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-322A-061423	06/14/23	11:30	SOIL	1	✓	✓							
SO-TC-322B-061423	06/14/23	11:40	SOIL	1	✓	✓							
SO-TC-322C-061423	06/14/23	11:50	SOIL	1	✓	✓							
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Roman</i>		Relinquished by: (Signature)		Received by: (Signature)			
				Printed Name: <i>Kenny King</i>		Printed Name: <i>Roman</i>		Printed Name:		Printed Name:			
				Company: <i>PERC</i>		Company: <i>ARI</i>		Company:		Company:			
				Date & Time: <i>6/14/23 16:01</i>		Date & Time: <i>6/14/23 1601</i>		Date & Time:		Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2023 10:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-322A-061423	23F0362-01	Solid	14-Jun-2023 11:30	14-Jun-2023 16:01
SO-TC-322B-061423	23F0362-02	Solid	14-Jun-2023 11:40	14-Jun-2023 16:01
SO-TC-322C-061423	23F0362-03	Solid	14-Jun-2023 11:50	14-Jun-2023 16:01



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2023 10:53

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 23F0362

Sample receipt

Sample(s) as listed on the preceding page were received 14-Jun-2023 16:01 under ARI work order 23F0362. For details regarding sample receipt, please refer to the Cooler Receipt Form.

TCLP Metals and EPA Method 6010D

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): _____ NA
Assigned ARI Job No: 23F0362

Project Name: Superlon Plaster
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 23.8°
Time 1601
If cooler temperature is out of compliance fill out form 00070F
Cooler Accepted by: R Date: 6/14/23 Temp Gun ID#: 4708
Time: 1601

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: NC Date: 06/14/23 Time: 16:28 Labels checked by: MD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By:

Date:



Cooler Temperature Compliance Form

ARI Work Order: 23F0362

Cooler#: _____ Temperature(°C): 27.80

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples above
6°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: *RM* Date: 6/14/23 Time: 1601



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2023 10:53

SO-TC-322A-061423

23F0362-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/14/2023 11:30

Instrument: ICP3 Analyst: DOE

Analyzed: 06/21/2023 09:20

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23F0362-01 A 02

Preparation Batch: BLF0558

Sample Size: 25 mL (wet)

Prepared: 06/20/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2023 10:53

SO-TC-322A-061423
23F0362-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/14/2023 11:30

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 06/15/2023 16:10

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23F0362-01 A

Preparation Batch: BLF0452

Sample Size: 20.4778 g (wet)

Prepared: 06/15/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.73	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2023 10:53

SO-TC-322B-061423
23F0362-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/14/2023 11:40

Instrument: ICP3 Analyst: DOE

Analyzed: 06/21/2023 09:23

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23F0362-02 A 02

Preparation Batch: BLF0558

Sample Size: 25 mL (wet)

Prepared: 06/20/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2023 10:53

SO-TC-322B-061423
23F0362-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/14/2023 11:40

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 06/15/2023 16:10

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23F0362-02 A

Preparation Batch: BLF0452

Sample Size: 20.3397 g (wet)

Prepared: 06/15/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	11.3	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2023 10:53

SO-TC-322C-061423
23F0362-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 06/14/2023 11:50

Instrument: ICP3 Analyst: DOE

Analyzed: 06/21/2023 09:26

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23F0362-03 A 02

Preparation Batch: BLF0558

Sample Size: 25 mL (wet)

Prepared: 06/20/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0230	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2023 10:53

SO-TC-322C-061423
23F0362-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 06/14/2023 11:50

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 06/15/2023 16:10

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23F0362-03 A

Preparation Batch: BLF0452

Sample Size: 20.6531 g (wet)

Prepared: 06/15/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.6	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2023 10:53

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLF0558 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BLF0558-BLK1)					Prepared: 20-Jun-2023 Analyzed: 21-Jun-2023 08:38					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2023 10:53

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLF0452 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BLF0452-BS1)									
Prepared: 15-Jun-2023 Analyzed: 15-Jun-2023 16:10									
pH	7.03	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2023 10:53

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
WADOE	WA Dept of Ecology	C558	06/30/2023
WA-DW	Ecology - Drinking Water	C558	06/30/2023



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Jun-2023 10:53

Notes and Definitions

B	This analyte was detected in the method blank.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Two data packages for your consideration

From Keith Johnston <KJohnston@tpchd.org>

Date Wed 7/26/2023 11:14 AM

To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>

Hi Jeff,

I have reviewed this data and these soils are acceptable for disposal under WDA 2716R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>

Sent: Wednesday, July 26, 2023 9:33 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: Two data packages for your consideration

CAUTION: External Email

Keith:

Attached are two data packages for your consideration. This data, summarized below, are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 19 cubic yards of soil. We are asking for approval to dispose of this soil at the LRI landfill under permit number WDA 2716R.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-323A-071323	0.0485	ND	12.2	Asking for approval
SO-TC-323B-071323	0.032	ND	12.3	Asking for approval

SO-TC-323C-071323	0.059	ND	12.3	Asking for approval
SO-TC-324A-071823	0.127	ND	9.58	Asking for approval
SO-TC-324B-071823	0.016	ND	9.43	Asking for approval
SO-TC-324C-071823	0.0175	ND	9.55	Asking for approval

Thank you

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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Thank you.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

21 July 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23G0265

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed by
Phillip Bates
Date: 2023.07.21
08:44:07 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2360265	Turn-around Requested: 3 Day	Date: 7/13/2023
ARI Client Company: PERC	Phone: 4253460921	Page: of
Client Contact: Kenny King	No. of Coolers: 1	Cooler Temps: 21.8°



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-323A-071323	07/13/23	13:50	SOIL	1	✓	✓							
SO-TC-323B-071323	07/13/23	14:00	SOIL	1	✓	✓							
SO-TC-323C-071323	07/13/23	14:10	SOIL	1	✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: <i>Matthew Dene</i> (Signature)		Relinquished by:		Received by:		
					Printed Name: <i>Kenny King</i>		Printed Name: <i>Matthew Dene</i>		Printed Name:		Printed Name:		
					Company: <i>PERC</i>		Company: <i>ARUL</i>		Company:		Company:		
					Date & Time: <i>7/13/23 16:07</i>		Date & Time: <i>07/13/23 16:07</i>		Date & Time:		Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocols will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2023 08:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-323A-071323	23G0265-01	Solid	13-Jul-2023 13:50	13-Jul-2023 16:07
SO-TC-323B-071323	23G0265-02	Solid	13-Jul-2023 14:00	13-Jul-2023 16:07
SO-TC-323C-071323	23G0265-03	Solid	13-Jul-2023 14:10	13-Jul-2023 16:07



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2023 08:41

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 23G0265

Sample receipt

Sample(s) as listed on the preceding page were received 13-Jul-2023 16:07 under ARI work order 23G0265. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals with EPA Method 6010D

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superion Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 23G0265

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1607 2180

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 5009708

Cooler Accepted by: MD Date: 07/12/23 Time: 1607

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not MD 07/13/23

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

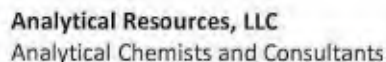
Samples Logged by: NC Date: 07/13/23 Time: 16:29 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

00070F

Cooler Temperature Compliance Form

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2023 08:41

SO-TC-323A-071323

23G0265-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/13/2023 13:50

Instrument: ICP3 Analyst: DOE

Analyzed: 07/20/2023 09:28

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate Extract ID: 23G0265-01 A 02
Preparation Batch: BLG0367 Sample Size: 25 mL (wet)
Prepared: 07/19/2023 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0485	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2023 08:41

SO-TC-323A-071323
23G0265-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/13/2023 13:50

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 07/14/2023 13:08

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23G0265-01 A

Preparation Batch: BLG0277

Sample Size: 20.248 g (wet)

Prepared: 07/14/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	12.2	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2023 08:41

SO-TC-323B-071323
23G0265-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/13/2023 14:00

Instrument: ICP3 Analyst: DOE

Analyzed: 07/20/2023 09:37

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23G0265-02 A 02

Preparation Batch: BLG0367

Sample Size: 25 mL (wet)

Prepared: 07/19/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0320	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2023 08:41

SO-TC-323B-071323
23G0265-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/13/2023 14:00

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 07/14/2023 13:08

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23G0265-02 A

Preparation Batch: BLG0277

Sample Size: 20.699 g (wet)

Prepared: 07/14/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	12.3	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2023 08:41

SO-TC-323C-071323
23G0265-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/13/2023 14:10

Instrument: ICP3 Analyst: DOE

Analyzed: 07/20/2023 09:40

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23G0265-03 A 02

Preparation Batch: BLG0367

Sample Size: 25 mL (wet)

Prepared: 07/19/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0590	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2023 08:41

SO-TC-323C-071323
23G0265-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/13/2023 14:10

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 07/14/2023 13:08

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23G0265-03 A

Preparation Batch: BLG0277

Sample Size: 20.878 g (wet)

Prepared: 07/14/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	12.3	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2023 08:41

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLG0367 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BLG0367-BLK1)						Prepared: 19-Jul-2023 Analyzed: 20-Jul-2023 09:25					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BLG0367-DUP1)						Source: 23G0265-01 Prepared: 19-Jul-2023 Analyzed: 20-Jul-2023 09:31					
Arsenic	0.0440	0.0140	0.250	mg/L		0.0485			9.73	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BLG0367-MS1)						Source: 23G0265-01 Prepared: 19-Jul-2023 Analyzed: 20-Jul-2023 09:34					
Arsenic	4.37	0.0140	0.250	mg/L	4.00	0.0485	108	75-125			
Lead	4.10	0.0065	0.100	mg/L	4.00	ND	102	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2023 08:41

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLG0277 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BLG0277-BS1)									
Prepared: 14-Jul-2023 Analyzed: 14-Jul-2023 13:08									
pH	7.01	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2023 08:41

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
21-Jul-2023 08:41

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

25 July 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23G0375

Associated SDG ID(s)
N/A

Phillip Bates

Digitally signed by
Phillip Bates
Date: 2023.07.25
16:51:18 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

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Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2360375	Turn-around Requested: 3 Day	Date: 7/18/2023
ARI Client Company: PERC	Phone: 4253460921	Page: of
Client Contact: Kenny King		No. of Coolers:
Client Project Name:		Cooler Temps:



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Superlon Plastics					Analysis Requested								Notes/Comments							
Client Project #:		Samplers:			TCLP 1311 As/Pb Only	pH 9045C														
SLON		King																		
Sample ID	Date	Time	Matrix	No. Containers																
SO-TC-324A-071823	07/18/23	11:20	SOIL	1	✓	✓														
SO-TC-324B-071823	07/18/23	11:30	SOIL	1	✓	✓														
SO-TC-324C-071823	07/18/23	11:40	SOIL	1	✓	✓														
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>				Received by: (Signature) <i>[Signature]</i>				Relinquished by: (Signature)				Received by: (Signature)			
					Printed Name: <i>Kenny King</i>				Printed Name: <i>Ronan n.</i>				Printed Name:				Printed Name:			
					Company: <i>PERC</i>				Company: <i>ARI</i>				Company:				Company:			
					Date & Time: <i>7/18/23 16:14</i>				Date & Time: <i>7/18/23 16:14</i>				Date & Time:				Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with the terms and conditions of the contract.

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSD/PA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jul-2023 16:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-324A-071823	23G0375-01	Solid	18-Jul-2023 11:20	18-Jul-2023 16:14
SO-TC-324B-071823	23G0375-02	Solid	18-Jul-2023 11:30	18-Jul-2023 16:14
SO-TC-324C-071823	23G0375-03	Solid	18-Jul-2023 11:40	18-Jul-2023 16:14



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jul-2023 16:50

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 23G0375

Sample receipt

Sample(s) as listed on the preceding page were received 18-Jul-2023 16:14 under ARI work order 23G0375. For details regarding sample receipt, please refer to the Cooler Receipt Form.

TCLP Metals with EPA Method 6010D

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



WORK ORDER

23G0375

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: PERC-Pacific Environmental and Redevelopment

Project Manager: Phillip Bates

Project: Superlon Plastics

Project Number: SLON

Report To:

PERC-Pacific Environmental and Redevelopment Corp
Kenny King
8424 E Meadow Lake Drive
Snohomish, WA 98290
Phone: (425) 346-0921
Fax:

Invoice To:

PERC-Pacific Environmental and Redevelopment Corp
Jeffrey King
8424 E Meadow Lake Drive
Snohomish, WA 98290
Phone: (425) 238-2212
Fax:

Date Due: 24-Jul-2023 18:00 (3 day TAT)

Received By: Rowan Miller

Date Received: 18-Jul-2023 16:14

Logged In By: Sean Rahman

Date Logged In: 18-Jul-2023 16:19

Samples Received at 31.3PC

Intact, properly signed and dated custody seals attached to outside of coolers).....No
Custody papers properly filled out (w/ signed, analyses requested, etc).....Yes
Was sufficient ice used (if appropriate).....No
All bottles arrived in good condition (unbroken).....Yes
Number of containers listed on COC match number received.....Yes
Correct bottles used for the requested analyses.....Yes
Analyses/bottles require preservation (attach preservation sheet excluding VOC).....No
Sample split at ARL.....No

Custody papers included with the cooler.....Yes
Was a temperature blank included in the cooler.....No
All bottles sealed in individual plastic bags.....No
All bottle labels complete and legible.....Yes
Bottle labels and tags agree with COC.....Yes
All VOC vials free of air bubbles.....No
Sufficient amount of sample sent in each bottle.....Yes

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------



WORK ORDER

23G0375

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: PERC-Pacific Environmental and Redevelopment

Project Manager: Phillip Bates

Project: Superlon Plastics

Project Number: SLON

Analysis	Due	TAT	Expires	Comments
23G0375-01 SO-TC-324A-071823 [Solid] Sampled 18-Jul-2023 11:20 (GMT-08:00) Pacific Time (US & Canada)				
<i>A = Glass W/M. Clear. 8 oz</i>				
pH, EPA 9045D, Solid	24-Jul-2023 15:00	3	01-Aug-2023 23:59	
TCLP 1311	24-Jul-2023 15:00	3	15-Aug-2023 23:59	
TCLP 6020B - As	24-Jul-2023 15:00	3	14-Jan-2024 23:59	Do not log unless ICP is down
TCLP 6020B - Pb	24-Jul-2023 15:00	3	14-Jan-2024 23:59	Do not log unless ICP is down

23G0375-02 SO-TC-324B-071823 [Solid] Sampled 18-Jul-2023 11:30 (GMT-08:00) Pacific Time (US & Canada)				
<i>A = Glass W/M. Clear. 8 oz</i>				
pH, EPA 9045D, Solid	24-Jul-2023 15:00	3	01-Aug-2023 23:59	
TCLP 1311	24-Jul-2023 15:00	3	15-Aug-2023 23:59	
TCLP 6020B - As	24-Jul-2023 15:00	3	14-Jan-2024 23:59	Do not log unless ICP is down
TCLP 6020B - Pb	24-Jul-2023 15:00	3	14-Jan-2024 23:59	Do not log unless ICP is down

23G0375-03 SO-TC-324C-071823 [Solid] Sampled 18-Jul-2023 11:40 (GMT-08:00) Pacific Time (US & Canada)				
<i>A = Glass W/M. Clear. 8 oz</i>				
pH, EPA 9045D, Solid	24-Jul-2023 15:00	3	01-Aug-2023 23:59	
TCLP 1311	24-Jul-2023 15:00	3	15-Aug-2023 23:59	
TCLP 6020B - As	24-Jul-2023 15:00	3	14-Jan-2024 23:59	Do not log unless ICP is down
TCLP 6020B - Pb	24-Jul-2023 15:00	3	14-Jan-2024 23:59	Do not log unless ICP is down

Reviewed By

Date

Page 2 of 2



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client:

PERC

Project Name:

Superior

COC No(s):

NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other:

Assigned ARI Job No:

2360375

Tracking No:

NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?

YES

NO

Were custody papers included with the cooler?

YES

NO

Were custody papers properly filled out (ink, signed, etc.)

YES

NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1614

31.3°

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#:

9208

Cooler Accepted by:

Date:

7/18/23

Time:

1614

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?

YES

NO

What kind of packing material was used? ...

Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:

NA

YES

NO

Was sufficient ice used (if appropriate)?

How were bottles sealed in plastic bags?

Individually

Grouped

Not

Did all bottles arrive in good condition (unbroken)?

YES

NO

Were all bottle labels complete and legible?

YES

NO

Did the number of containers listed on COC match with the number of containers received?

YES

NO

Did all bottle labels and tags agree with custody papers?

YES

NO

Were all bottles used correct for the requested analyses?

YES

NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA

YES

NO

Were all VOC vials free of air bubbles?

NA

YES

NO

Was sufficient amount of sample sent in each bottle?

YES

NO

Date VOC Trip Blank was made at ARI

NA

Were the sample(s) split by ARI?

NA

YES

Date/Time:

Equipment:

Split by:

Samples Logged by:

S.R.

Date:

7-18-23

Time:

16:14

Labels checked by:

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 2360375

Cooler#: _____ Temperature(°C): 36.30

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

samples above
6°C

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: [Signature] Date: 7/18/23 Time: 1614



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jul-2023 16:50

SO-TC-324A-071823
23G0375-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/18/2023 11:20

Instrument: ICP3 Analyst: DOE

Analyzed: 07/24/2023 09:10

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate Extract ID: 23G0375-01 A 02
Preparation Batch: BLG0465 Sample Size: 25 mL (wet)
Prepared: 07/21/2023 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.127	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jul-2023 16:50

SO-TC-324A-071823
23G0375-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/18/2023 11:20

Instrument: Accumet AB150 Analyst: BF

Analyzed: 07/20/2023 18:54

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 23G0375-01 A

Preparation Batch: BLG0455

Sample Size: 20.43 g (wet)

Prepared: 07/20/2023

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.58	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jul-2023 16:50

SO-TC-324B-071823
23G0375-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/18/2023 11:30

Instrument: ICP3 Analyst: DOE

Analyzed: 07/24/2023 09:13

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23G0375-02 A 02

Preparation Batch: BLG0465

Sample Size: 25 mL (wet)

Prepared: 07/21/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0160	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jul-2023 16:50

SO-TC-324B-071823
23G0375-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/18/2023 11:30

Instrument: Accumet AB150 Analyst: BF

Analyzed: 07/20/2023 18:54

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 23G0375-02 A

Preparation Batch: BLG0455

Sample Size: 20.38 g (wet)

Prepared: 07/20/2023

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.43	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jul-2023 16:50

SO-TC-324C-071823
23G0375-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/18/2023 11:40

Instrument: ICP3 Analyst: DOE

Analyzed: 07/24/2023 09:16

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23G0375-03 A 02

Preparation Batch: BLG0465

Sample Size: 25 mL (wet)

Prepared: 07/21/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0175	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jul-2023 16:50

SO-TC-324C-071823
23G0375-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/18/2023 11:40

Instrument: Accumet AB150 Analyst: BF

Analyzed: 07/20/2023 18:54

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: EPA 9045D

Extract ID: 23G0375-03 A

Preparation Batch: BLG0455

Sample Size: 20.24 g (wet)

Prepared: 07/20/2023

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.55	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jul-2023 16:50

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLG0465 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BLG0465-BLK1)						Prepared: 21-Jul-2023 Analyzed: 24-Jul-2023 08:35					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jul-2023 16:50

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLG0455 - EPA 9045D

Instrument: Accumet AB150 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BLG0455-BS1)										
						Prepared: 20-Jul-2023 Analyzed: 20-Jul-2023 18:54				
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BLG0455-DUP1)										
		Source: 23G0375-01				Prepared: 20-Jul-2023 Analyzed: 20-Jul-2023 18:54				
pH	9.65	0.01	0.01	pH Units		9.58		0.73	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jul-2023 16:50

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
25-Jul-2023 16:50

Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: One data package for your consideration

From EH SolidWaste <EHSolidWaste@tpchd.org>

Date Fri 8/4/2023 8:55 AM

To 'JEFFREY KING' <jking@percnw.com>; Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>

Jeff,

I have reviewed the data and these soils are appropriate for disposal under WDA 2716R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@percnw.com>

Sent: Wednesday, August 2, 2023 12:34 PM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: One data package for your consideration

CAUTION: External Email

Keith:

Attached is a data packages for your consideration. This data shown, and summarized below, are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 19 cubic yards of soil. We are asking for approval to dispose of this soil at the LRI landfill under permit number WDA 2716R.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
-----------	--------------------------------------	-----------------------------------	----	---------

SO-TC-325A-072423	0.0425	0.009	9.93	Asking for approval
SO-TC-325B-072423	ND	ND	9.76	Asking for approval
SO-TC-325C-072423	0.0295	ND	9.7	Asking for approval

Thanks;

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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Thank you.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

02 August 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23G0523

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed by
Phillip Bates
Date: 2023.08.02
11:33:23 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2560523	Turn-around Requested: 3 Day	Date: 7/24/2023
ARI Client Company: PERC	Phone: 4253460921	Page: of
Client Contact: Kenny King		No. of Coolers: Cooler Temps: 24.4



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-325A-072423	07/24/23	13:36	SOIL	1	✓	✓								
SO-TC-325B-072423	07/24/23	13:46	SOIL	1	✓	✓								
SO-TC-325C-072423	07/24/23	13:56	SOIL	1	✓	✓								
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Jacob Walte</i>			Relinquished by: (Signature)			Received by: (Signature)
					Printed Name: <i>Kenny King</i>			Printed Name: <i>Jacob Walte</i>			Printed Name:			Printed Name:
					Company: <i>PERC</i>			Company: <i>AR LLC</i>			Company:			Company:
					Date & Time: <i>7/24/23 15:27</i>			Date & Time: <i>8/7/24/23 1527</i>			Date & Time:			Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2023 11:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-325A-072423	23G0523-01	Solid	24-Jul-2023 13:36	24-Jul-2023 15:27
SO-TC-325B-072423	23G0523-02	Solid	24-Jul-2023 13:46	24-Jul-2023 15:27
SO-TC-325C-072423	23G0523-03	Solid	24-Jul-2023 13:56	24-Jul-2023 15:27



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2023 11:32

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 23G0523

Sample receipt

Sample(s) as listed on the preceding page were received 24-Jul-2023 15:27 under ARI work order 23G0523. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals with EPA Method 6010D

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



WORK ORDER

23G0523

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: PERC-Pacific Environmental and Redevelopment

Project Manager: Phillip Bates

Project: Superlon Plastics

Project Number: SLON

Report To:

PERC-Pacific Environmental and Redevelopment Corp
Kenny King
8424 E Meadow Lake Drive
Snohomish, WA 98290
Phone: (425) 346-0921
Fax:

Invoice To:

PERC-Pacific Environmental and Redevelopment Corp
Jeffrey King
8424 E Meadow Lake Drive
Snohomish, WA 98290
Phone: (425) 238-2212
Fax:

Date Due: 28-Jul-2023 18:00 (3 day TAT)

Received By: Jacob Walter

Date Received: 24-Jul-2023 15:27

Logged In By: Sean Rahman

Date Logged In: 25-Jul-2023 09:16

Samples Received at 24°C

Intact, properly signed and dated custody seals attached to outside of cooler(s).....No
Custody papers properly filled out (in, signed, analyses requested, etc).....Yes
Was sufficient ice used (if appropriate).....No
All bottles arrived in good condition (unbroken).....Yes
Number of containers listed on COC match number received.....Yes
Correct bottles used for the requested analyses.....Yes
Analyses/bottles require preservation (attach preservation sheet excluding VOC).....No
Sample split at ARI.....No

Custody papers included with the cooler.....Yes
Was a temperature blank included in the cooler.....No
All bottles sealed in individual plastic bags.....No
All bottle labels complete and legible.....Yes
Bottle labels and tags agree with COC.....Yes
All VOC vials free of air bubbles.....No
Sufficient amount of sample sent in each bottle.....Yes

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------



WORK ORDER

23G0523

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: PERC-Pacific Environmental and Redevelopment Project Manager: Phillip Bates
Project: Superlon Plastics Project Number: SLON

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

23G0523-01 SO-TC-325A-072423 [Solid] Sampled 24-Jul-2023 13:36
(GMT-08:00) Pacific Time (US & Canada)

A = Glass W/M, Clear, 8 oz

pH, EPA 9045D, Solid	28-Jul-2023 15:00	3	07-Aug-2023 23:59	
Solids, Total, Dried at 103 -105 °C, Soli	28-Jul-2023 15:00	3	21-Aug-2023 23:59	Cancel this analysis
TCLP 1311	28-Jul-2023 15:00	3	21-Aug-2023 23:59	
TCLP 6010D - As	28-Jul-2023 15:00	3	20-Jan-2024 23:59	
TCLP 6010D - Pb	28-Jul-2023 15:00	3	20-Jan-2024 23:59	

23G0523-02 SO-TC-325B-072423 [Solid] Sampled 24-Jul-2023 13:46
(GMT-08:00) Pacific Time (US & Canada)

A = Glass W/M, Clear, 8 oz

pH, EPA 9045D, Solid	28-Jul-2023 15:00	3	07-Aug-2023 23:59	
Solids, Total, Dried at 103 -105 °C, Soli	28-Jul-2023 15:00	3	21-Aug-2023 23:59	Cancel this analysis
TCLP 1311	28-Jul-2023 15:00	3	21-Aug-2023 23:59	
TCLP 6010D - As	28-Jul-2023 15:00	3	20-Jan-2024 23:59	
TCLP 6010D - Pb	28-Jul-2023 15:00	3	20-Jan-2024 23:59	

23G0523-03 SO-TC-325C-072423 [Solid] Sampled 24-Jul-2023 13:56
(GMT-08:00) Pacific Time (US & Canada)

A = Glass W/M, Clear, 8 oz

pH, EPA 9045D, Solid	28-Jul-2023 15:00	3	07-Aug-2023 23:59	
Solids, Total, Dried at 103 -105 °C, Soli	28-Jul-2023 15:00	3	21-Aug-2023 23:59	Cancel this analysis
TCLP 1311	28-Jul-2023 15:00	3	21-Aug-2023 23:59	
TCLP 6010D - As	28-Jul-2023 15:00	3	20-Jan-2024 23:59	
TCLP 6010D - Pb	28-Jul-2023 15:00	3	20-Jan-2024 23:59	

Reviewed By

Date

Page 2 of 2



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 2360523

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?

YES NO

Were custody papers included with the cooler?

YES NO

Were custody papers properly filled out (ink, signed, etc.)

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1527

24.4

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 609748

Cooler Accepted by: SM

Date: 8/7/23

Time: 1527

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?

YES NO

What kind of packing material was used? ...

Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:

Was sufficient ice used (if appropriate)?

NA YES NO

How were bottles sealed in plastic bags?

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)?

YES NO

Were all bottle labels complete and legible?

YES NO

Did the number of containers listed on COC match with the number of containers received?

YES NO

Did all bottle labels and tags agree with custody papers?

YES NO

Were all bottles used correct for the requested analyses?

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA YES NO

Were all VOC vials free of air bubbles?

NA YES NO

Was sufficient amount of sample sent in each bottle?

YES NO

Date VOC Trip Blank was made at ARI:

NA

Were the sample(s) split by ARI? NA

YES

Date/Time:

Equipment:

Split by:

Samples Logged by: SM

Date: 7-24-23

Time: 9:16

Labels checked by:

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2023 11:32

SO-TC-325A-072423

23G0523-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/24/2023 13:36

Instrument: ICP3 Analyst: DOE

Analyzed: 08/01/2023 09:52

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23G0523-01 A 01

Preparation Batch: BLG0736

Sample Size: 25 mL (wet)

Prepared: 07/31/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0425	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0090	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2023 11:32

SO-TC-325A-072423
23G0523-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/24/2023 13:36

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 07/31/2023 15:21

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23G0523-01 A

Preparation Batch: BLG0753

Sample Size: 20.5369 g (wet)

Prepared: 07/31/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.93	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2023 11:32

SO-TC-325B-072423
23G0523-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/24/2023 13:46

Instrument: ICP3 Analyst: DOE

Analyzed: 08/01/2023 09:55

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23G0523-02 A 01

Preparation Batch: BLG0736

Sample Size: 25 mL (wet)

Prepared: 07/31/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	ND	mg/L	U
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2023 11:32

SO-TC-325B-072423
23G0523-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/24/2023 13:46

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 07/31/2023 15:21

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23G0523-02 A

Preparation Batch: BLG0753

Sample Size: 20.5421 g (wet)

Prepared: 07/31/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.76	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2023 11:32

SO-TC-325C-072423
23G0523-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/24/2023 13:56

Instrument: ICP3 Analyst: DOE

Analyzed: 08/01/2023 09:58

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23G0523-03 A 01

Preparation Batch: BLG0736

Sample Size: 25 mL (wet)

Prepared: 07/31/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0295	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2023 11:32

SO-TC-325C-072423
23G0523-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/24/2023 13:56

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 07/31/2023 15:21

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23G0523-03 A

Preparation Batch: BLG0753

Sample Size: 20.8261 g (wet)

Prepared: 07/31/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.70	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2023 11:32

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLG0736 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BLG0736-BLK1)										
Prepared: 31-Jul-2023 Analyzed: 01-Aug-2023 09:41										
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2023 11:32

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLG0753 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Prepared: 31-Jul-2023 Analyzed: 31-Jul-2023 15:21										
LCS (BLG0753-BS1)										
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Prepared: 31-Jul-2023 Analyzed: 31-Jul-2023 15:21										
LCS (BLG0753-BS2)										
pH	7.02	0.01	0.01	pH Units	7.00	100	99.2-100.8			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2023 11:32

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Aug-2023 11:32

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: One data package for your consideration

From EH SolidWaste <EHSolidWaste@tpchd.org>

Date Tue 8/15/2023 11:57 AM

To 'JEFFREY KING' <jking@perc-nw.com>; Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>

Jeff,

I have reviewed the data and these soils are appropriate for disposal under WDA 2716R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>

Sent: Monday, August 14, 2023 11:22 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: One data package for your consideration

CAUTION: External Email

Keith:

Attached is a data packages for your consideration. This data shown, and summarized below, are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 19 cubic yards of soil. We are asking for approval to dispose of this soil at the LRI landfill under permit number WDA 2716R.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
-----------	--------------------------------------	-----------------------------------	----	---------

SO-TC-326A-073123	0.132	0.009	10.2	Asking for approval
SO-TC-326B-073123	0.138	0.037	10.4	Asking for approval
SO-TC-326C-073123	0.126	ND	10.3	Asking for approval

Thanks

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

11 August 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23G0658

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed by
Phillip Bates
Date: 2023.08.11
08:40:26 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 23G0658		Turn-around Requested: 3 Day		Date: 7/31/2023				Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)	
ARI Client Company: PERC		Phone: 4253460921		Page: of					
Client Contact: Kenny King		No. of Coolers: 28.7		Cooler Temps: 28.7					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		pH 9045C			
Sample ID	Date	Time	Matrix	No. Containers					
SO-TC-326A-073123	07/31/23	11:10	SOIL	1	✓	✓			
SO-TC-326B-073123	07/31/23	11:20	SOIL	1	✓	✓			
SO-TC-326C-073123	07/31/23	11:30	SOIL	1	✓	✓			
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i> Printed Name: Kenny King Company: PERC Date & Time: 7/31/23 16:11		Received by: (Signature) <i>Nova Cate</i> Printed Name: Nova Cate Company: ARLLC Date & Time: 7/31/23 16:11		Relinquished by: (Signature) Printed Name: Company: Date & Time:		Received by: (Signature) Printed Name: Company: Date & Time:	

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Aug-2023 08:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-326A-073123	23G0658-01	Solid	31-Jul-2023 11:10	31-Jul-2023 16:11
SO-TC-326B-073123	23G0658-02	Solid	31-Jul-2023 11:20	31-Jul-2023 16:11
SO-TC-326C-073123	23G0658-03	Solid	31-Jul-2023 11:30	31-Jul-2023 16:11



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Aug-2023 08:37

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 23G0658

Sample receipt

Sample(s) as listed on the preceding page were received 31-Jul-2023 16: 11 under ARI work order 23G0658. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals with EPA Method 6010D

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 23G0658

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 16:11 28.7

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 9708

Cooler Accepted by: NC Date: 07/31/23 Time: 16:11

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

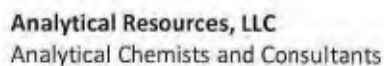
Samples Logged by: NC Date: 07/31/23 Time: 16:17 Labels checked by: NC

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: NC Date: 07/31/23 Time: 16:11

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Aug-2023 08:37

SO-TC-326A-073123
23G0658-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/31/2023 11:10

Instrument: ICP3 Analyst: DOE

Analyzed: 08/10/2023 09:30

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: LEN Digestion of EPA 1311 Elutriate Extract ID: 23G0658-01 A 02
Preparation Batch: BLH0251 Sample Size: 25 mL (wet)
Prepared: 08/09/2023 Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.132	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0090	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Aug-2023 08:37

SO-TC-326A-073123
23G0658-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/31/2023 11:10

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 08/02/2023 15:51

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23G0658-01 A

Preparation Batch: BLH0046

Sample Size: 20.7059 g (wet)

Prepared: 08/02/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.2	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Aug-2023 08:37

SO-TC-326A-073123
23G0658-01RE1 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/31/2023 11:10

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 08/02/2023 15:51

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23G0658-01RE1 A

Preparation Batch: BLH0046

Sample Size: 20.7059 g (wet)

Prepared: 08/02/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.2	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Aug-2023 08:37

SO-TC-326B-073123
23G0658-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/31/2023 11:20

Instrument: ICP3 Analyst: DOE

Analyzed: 08/10/2023 09:32

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23G0658-02 A 02

Preparation Batch: BLH0251

Sample Size: 25 mL (wet)

Prepared: 08/09/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.138	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0370	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Aug-2023 08:37

SO-TC-326B-073123
23G0658-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/31/2023 11:20

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 08/02/2023 15:51

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23G0658-02 A

Preparation Batch: BLH0046

Sample Size: 20.7315 g (wet)

Prepared: 08/02/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.4	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Aug-2023 08:37

SO-TC-326C-073123
23G0658-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 07/31/2023 11:30

Instrument: ICP3 Analyst: DOE

Analyzed: 08/10/2023 09:35

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23G0658-03 A 02

Preparation Batch: BLH0251

Sample Size: 25 mL (wet)

Prepared: 08/09/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.126	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Aug-2023 08:37

SO-TC-326C-073123
23G0658-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 07/31/2023 11:30

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 08/02/2023 15:51

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23G0658-03 A

Preparation Batch: BLH0046

Sample Size: 20.8829 g (wet)

Prepared: 08/02/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.3	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Aug-2023 08:37

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLH0251 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BLH0251-BLK1)						Prepared: 09-Aug-2023 Analyzed: 10-Aug-2023 09:15					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Aug-2023 08:37

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLH0046 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BLH0046-BS1)						Prepared: 02-Aug-2023 Analyzed: 02-Aug-2023 15:51					
pH	6.99	0.01	0.01	pH Units	7.00		99.9	99.2-100.8			
Duplicate (BLH0046-DUP1)						Source: 23G0658-01 Prepared: 02-Aug-2023 Analyzed: 02-Aug-2023 15:51					
pH	10.3	0.01	0.01	pH Units		10.2			1.46	20	
Duplicate (BLH0046-DUP2)						Source: 23G0658-01 Prepared: 02-Aug-2023 Analyzed: 02-Aug-2023 15:51					
pH	10.2	0.01	0.01	pH Units		10.2			0.30	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Aug-2023 08:37

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
11-Aug-2023 08:37

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: One data package for your consideration

From Keith Johnston <KJohnston@tpchd.org>

Date Tue 8/22/2023 8:51 AM

To 'JEFFREY KING' <jking@percnw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>

Hi Jeff,

I have reviewed the data and I concur that these soils are appropriate for disposal under WDA 2716R.

Thank you,

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@percnw.com>

Sent: Tuesday, August 22, 2023 8:34 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: One data package for your consideration

CAUTION: External Email

Keith:

Attached is a data package for your consideration. This data, shown and summarized below, are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 19 cubic yards of soil. We are asking for approval to dispose of this soil at the LRI landfill under permit number WDA 2716R.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-327A-080823	0.856	0.0255	10.3	Asking for approval

SO-TC-327B-080823	0.771	ND	10.6	Asking for approval
SO-TC-327C-080823	0.345	0.018	10.4	Asking for approval

Thanks

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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Thank you.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

17 August 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23H0214

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed by
Phillip Bates
Date: 2023.08.17
08:30:31 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 23 H0214		Turn-around Requested: 3 Day		Date: 8/8/2023							
ARI Client Company: PERC		Phone: 4253460921		Page: of							
Client Contact: Kenny King		No. of Coolers:		Cooler Temps: 26.8							
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments			
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		pH 9045C					
Sample ID	Date	Time	Matrix	No. Containers							
SO-TC-327A-080823	08/08/23	13:00	SOIL	1	✓	✓					
SO-TC-327B-080823	08/08/23	13:10	SOIL	1	✓	✓					
SO-TC-327C-080823	08/08/23	13:20	SOIL	1	✓	✓					
Comments/Special Instructions				Relinquished by: (Signature) Kenny King		Received by: (Signature) Matthew Paro		Relinquished by: (Signature)		Received by: (Signature)	
				Printed Name: Kenny King		Printed Name: Matthew Paro		Printed Name:		Printed Name:	
				Company: PERC		Company: ARI		Company:		Company:	
				Date & Time: 8/8/2023 16:08		Date & Time: 08/08/23 1608		Date & Time:		Date & Time:	



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSSDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2023 08:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-327A-080823	23H0214-01	Solid	08-Aug-2023 13:00	08-Aug-2023 16:08
SO-TC-327B-080823	23H0214-02	Solid	08-Aug-2023 13:10	08-Aug-2023 16:08
SO-TC-327C-080823	23H0214-03	Solid	08-Aug-2023 13:20	08-Aug-2023 16:08



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2023 08:25

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 23H0214

Sample receipt

Sample(s) as listed on the preceding page were received 08-Aug-2023 16:08 under ARI work order 23H0214. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals with EPA Method 6010D

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superion

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 23H0214

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1608 26.8

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: NA

Cooler Accepted by: mn Date: 08/08/23 Time: 1608

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: 8/8/23 Equipment: 1627 Split by: mn

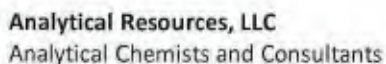
Samples Logged by: mn Date: 8/8/23 Time: 1627 Labels checked by: mn

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

00070F

Cooler Temperature Compliance Form

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2023 08:25

SO-TC-327A-080823

23H0214-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/08/2023 13:00

Instrument: ICP3 Analyst: DOE

Analyzed: 08/16/2023 09:36

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23H0214-01 A 02

Preparation Batch: BLH0393

Sample Size: 25 mL (wet)

Prepared: 08/15/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.856	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0255	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2023 08:25

SO-TC-327A-080823
23H0214-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/08/2023 13:00

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 08/11/2023 14:56

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23H0214-01 A

Preparation Batch: BLH0328

Sample Size: 20.8876 g (wet)

Prepared: 08/11/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.3	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2023 08:25

SO-TC-327B-080823
23H0214-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/08/2023 13:10

Instrument: ICP3 Analyst: DOE

Analyzed: 08/16/2023 09:39

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23H0214-02 A 02

Preparation Batch: BLH0393

Sample Size: 25 mL (wet)

Prepared: 08/15/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.771	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2023 08:25

SO-TC-327B-080823
23H0214-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/08/2023 13:10

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 08/11/2023 14:56

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23H0214-02 A

Preparation Batch: BLH0328

Sample Size: 20.6893 g (wet)

Prepared: 08/11/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.6	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2023 08:25

SO-TC-327C-080823
23H0214-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/08/2023 13:20

Instrument: ICP3 Analyst: DOE

Analyzed: 08/16/2023 09:41

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23H0214-03 A 02

Preparation Batch: BLH0393

Sample Size: 25 mL (wet)

Prepared: 08/15/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.345	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0180	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2023 08:25

SO-TC-327C-080823
23H0214-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/08/2023 13:20

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 08/11/2023 14:56

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23H0214-03 A

Preparation Batch: BLH0328

Sample Size: 20.0544 g (wet)

Prepared: 08/11/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.4	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2023 08:25

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLH0393 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BLH0393-BLK1)					Prepared: 15-Aug-2023 Analyzed: 16-Aug-2023 09:24					
Arsenic	0.0350	0.0140	0.250	mg/L						J
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2023 08:25

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLH0328 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BLH0328-BS1)					Prepared: 11-Aug-2023 Analyzed: 11-Aug-2023 14:56				
pH	7.00	0.01	0.01	pH Units	7.0000	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2023 08:25

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Aug-2023 08:25

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: TWO DATA PACKAGES FOR YOUR CONSIDERATION

From Keith Johnston <KJohnston@tpchd.org>

Date Tue 8/29/2023 11:47 AM

To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>; Trevor Priestley <TPriestley@tpchd.org>

Hi Jeff,

I'd like to move to a different model with this data. I know in the past we have held you up with a late review and approval. A small step in the right direction might be to send the data as usual but if you know that it is not failing TCLP for arsenic or lead and the pH is under 12.5 that you as the generator designate the waste as non-dangerous and proceed with disposal. We will send you an email that confirms receipt and agrees with your designation. This way you don't need to wait for us and can schedule your hauling as appropriate for you.

Keep sending us data as you have soils to dispose under WDA 2716R. Anything out of the ordinary we can talk about but if it's under the dangerous waste limits for your waste stream then proceed with disposal. During renewal we can chat about a longer reporting period i.e. monthly or quarterly.

We agree with your current designation for these soils to be disposed of under WDA 2716R.

Call me if you have any questions.

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>

Sent: Tuesday, August 29, 2023 8:48 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: TWO DATA PACKAGES FOR YOUR CONSIDERATION

CAUTION: External Email

Keith:

Attached are two data packages for your consideration. This data (summarized below) are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 19 cubic yards of soil. We are asking for approval to dispose of this soil at the LRI landfill under permit number WDA 2716R.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-328A-081523	0.802	0.0185	10.8	Asking for approval
SO-TC-328B-081523	0.881	ND	10.4	Asking for approval
SO-TC-328C-081523	0.556	ND	10.1	Asking for approval
SO-TC-329A-081723	0.045	ND	10.3	Asking for approval
SO-TC-329B-081723	0.174	ND	10.5	Asking for approval
SO-TC-329C-081723	0.0485	ND	11.1	Asking for approval

Thank you

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

22 August 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23H0408

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed by
Phillip Bates
Date: 2023.08.22
08:34:44 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 23H0408		Turn-around Requested: 3 Day			Date: 8/15/2023						Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company: PERC		Phone: 4253460921			Page: of									
Client Contact: Kenny King					No. of Coolers: Cooler Temps:									
Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-328A-081523	08/15/23	13:40	SOIL	1	✓	✓								
SO-TC-328B-081523	08/15/23	13:50	SOIL	1	✓	✓								
SO-TC-328C-081523	08/15/23	14:00	SOIL	1	✓	✓								
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>R...</i>		Relinquished by: (Signature)		Received by: (Signature)			
					Printed Name: Kenny King		Printed Name: R...		Printed Name:		Printed Name:			
					Company: PERC		Company: AR?		Company:		Company:			
					Date & Time: 8/15/23 16:11		Date & Time: 8/15/23 1611		Date & Time:		Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEB/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Aug-2023 08:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-328A-081523	23H0408-01	Solid	15-Aug-2023 13:40	15-Aug-2023 16:11
SO-TC-328B-081523	23H0408-02	Solid	15-Aug-2023 13:50	15-Aug-2023 16:11
SO-TC-328C-081523	23H0408-03	Solid	15-Aug-2023 14:00	15-Aug-2023 16:11



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Aug-2023 08:33

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 23H0408

Sample receipt

Samples as listed on the preceding page were received 15-Aug-2023 16:11 under ARI work order 23H0408. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals with EPA Method 6010D

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: superior plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 23H0408

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1611 34.5°

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 9708

Cooler Accepted by: K Date: 8/15/23 Time: 1611

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: _____ NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: MD Date: 08/15/23 Time: 1622 Labels checked by: MD

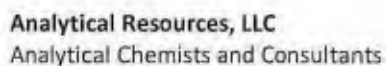
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

Completed by: Date: 8/15/23 Time: 164



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Aug-2023 08:33

SO-TC-328A-081523

23H0408-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/15/2023 13:40

Instrument: ICP3 Analyst: DOE

Analyzed: 08/21/2023 10:01

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23H0408-01 A 02

Preparation Batch: BLH0524

Sample Size: 25 mL (wet)

Prepared: 08/18/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.802	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.0185	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Aug-2023 08:33

SO-TC-328A-081523
23H0408-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/15/2023 13:40

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 08/16/2023 16:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23H0408-01 A

Preparation Batch: BLH0462

Sample Size: 20.4003 g (wet)

Prepared: 08/16/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.8	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Aug-2023 08:33

SO-TC-328B-081523
23H0408-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/15/2023 13:50

Instrument: ICP3 Analyst: DOE

Analyzed: 08/21/2023 10:04

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23H0408-02 A 02

Preparation Batch: BLH0524

Sample Size: 25 mL (wet)

Prepared: 08/18/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.881	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Aug-2023 08:33

SO-TC-328B-081523
23H0408-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/15/2023 13:50

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 08/16/2023 16:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23H0408-02 A

Preparation Batch: BLH0462

Sample Size: 20.3471 g (wet)

Prepared: 08/16/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.4	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Aug-2023 08:33

SO-TC-328C-081523
23H0408-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/15/2023 14:00

Instrument: ICP3 Analyst: DOE

Analyzed: 08/21/2023 10:07

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23H0408-03 A 02

Preparation Batch: BLH0524

Sample Size: 25 mL (wet)

Prepared: 08/18/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.556	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Aug-2023 08:33

SO-TC-328C-081523
23H0408-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/15/2023 14:00

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 08/16/2023 16:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23H0408-03 A

Preparation Batch: BLH0462

Sample Size: 20.6955 g (wet)

Prepared: 08/16/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.1	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Aug-2023 08:33

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLH0524 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BLH0524-BLK1)					Prepared: 18-Aug-2023 Analyzed: 21-Aug-2023 09:58					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	0.0095	0.0065	0.100	mg/L						J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Aug-2023 08:33

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLH0462 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BLH0462-BS1)					Prepared: 16-Aug-2023 Analyzed: 16-Aug-2023 16:30				
pH	6.98	0.01	0.01	pH Units	7.0000	99.7	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Aug-2023 08:33

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Aug-2023 08:33

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

28 August 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23H0451

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed by
Phillip Bates
Date: 2023.08.28
09:47:06 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



1

Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

Page 2 of 16 23H0451 ARISample FINAL 28 Aug 2023 0945



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Aug-2023 09:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-329A-081723	23H0451-01	Solid	17-Aug-2023 11:30	17-Aug-2023 15:44
SO-TC-329B-081723	23H0451-02	Solid	17-Aug-2023 11:40	17-Aug-2023 15:44
SO-TC-329C-081723	23H0451-03	Solid	17-Aug-2023 11:50	17-Aug-2023 15:44



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Aug-2023 09:45

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 23H0451

Sample receipt

Sample(s) as listed on the preceding page were received 17-Aug-2023 15:44 under ARI work order 23H0451. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals with EPA Method 6010D

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Water

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 23H0451

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1544 32.1°

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: _____

Cooler Accepted by: R Date: 8/17/23 Time: 1544

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____ YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____ NA YES NO

How were bottles sealed in plastic bags? _____ Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____ YES NO

Were all bottle labels complete and legible? _____ YES NO

Did the number of containers listed on COC match with the number of containers received? _____ YES NO

Did all bottle labels and tags agree with custody papers? _____ YES NO

Were all bottles used correct for the requested analyses? _____ YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? _____ NA YES NO

Was sufficient amount of sample sent in each bottle? _____ YES NO

Date VOC Trip Blank was made at ARI: _____ NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

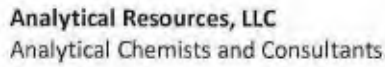
Samples Logged by: R Date: 8/17/23 Time: 1613 Labels checked by: R

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Page 6 of 16 23H0451 ARISample FINAL 28 Aug 2023 0945



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Aug-2023 09:45

SO-TC-329A-081723

23H0451-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/17/2023 11:30

Instrument: ICP3 Analyst: DOE

Analyzed: 08/25/2023 09:11

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23H0451-01 A 02

Preparation Batch: BLH0667

Sample Size: 25 mL (wet)

Prepared: 08/24/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0450	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Aug-2023 09:45

SO-TC-329A-081723
23H0451-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/17/2023 11:30

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 08/21/2023 16:55

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23H0451-01 A

Preparation Batch: BLH0568

Sample Size: 20.5769 g (wet)

Prepared: 08/21/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.3	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Aug-2023 09:45

SO-TC-329B-081723
23H0451-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/17/2023 11:40

Instrument: ICP3 Analyst: DOE

Analyzed: 08/25/2023 09:14

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23H0451-02 A 02

Preparation Batch: BLH0667

Sample Size: 25 mL (wet)

Prepared: 08/24/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.174	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Aug-2023 09:45

SO-TC-329B-081723
23H0451-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/17/2023 11:40

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 08/21/2023 16:55

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23H0451-02 A

Preparation Batch: BLH0568

Sample Size: 20.5079 g (wet)

Prepared: 08/21/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.5	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Aug-2023 09:45

SO-TC-329C-081723
23H0451-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/17/2023 11:50

Instrument: ICP3 Analyst: DOE

Analyzed: 08/25/2023 09:17

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23H0451-03 A 02

Preparation Batch: BLH0667

Sample Size: 25 mL (wet)

Prepared: 08/24/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0485	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Aug-2023 09:45

SO-TC-329C-081723
23H0451-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/17/2023 11:50

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 08/21/2023 16:55

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23H0451-03 A

Preparation Batch: BLH0568

Sample Size: 20.877 g (wet)

Prepared: 08/21/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	11.1	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Aug-2023 09:45

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLH0667 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BLH0667-BLK1)					Prepared: 24-Aug-2023 Analyzed: 25-Aug-2023 09:00					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Aug-2023 09:45

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLH0568 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BLH0568-BS1)					Prepared: 21-Aug-2023		Analyzed: 21-Aug-2023 16:55			
pH	7.00	0.01	0.01	pH Units	7.0000	100	99.2-100.8			
Duplicate (BLH0568-DUP1)					Source: 23H0451-01		Prepared: 21-Aug-2023		Analyzed: 21-Aug-2023 16:55	
pH	10.2	0.01	0.01	pH Units		10.3		0.68	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Aug-2023 09:45

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
28-Aug-2023 09:45

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: One data package for your consideration

From Keith Johnston <KJohnston@tpchd.org>

Date Thu 9/14/2023 11:28 AM

To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>

Thank you, Jeff. We have received your report and agree with your designation.

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



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We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>

Sent: Wednesday, September 13, 2023 7:41 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: One data package for your consideration

CAUTION: External Email

Keith:

Thank you for making the change in our reporting requirements. We appreciate it.

To be consistent attached is a data package for your consideration. This data, shown and summarized below, are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 19 cubic yards of soil. We are disposing of this soil at the LRI landfill under permit number WDA 2716R.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-330A-083023	0.0465	0.009	9.57	Asking for approval

SO-TC-330B-083023	0.0825	0.0125	9.62	Asking for approval
SO-TC-327C-080823	0.0435	0.011	9.83	Asking for approval

Thank you;

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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Thank you.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

05 September 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23H0703

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed
by Phillip Bates
Date: 2023.09.05
13:15:11 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 23H0703	Turn-around Requested: 3 Day	Date: 8/30/2023
ARI Client Company: PERC	Phone: 4253460921	Page: of
Client Contact: Kenny King		No. of Coolers: Cooler Temps:



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C							
Sample ID	Date	Time	Matrix	No. Containers									
SO-TC-330A-083023	08/30/23	09:10	SOIL	1	✓	✓							
SO-TC-330B-083023	08/30/23	09:20	SOIL	1	✓	✓							
SO-TC-330C-083023	08/30/23	09:30	SOIL	1	✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Stan Radman</i>		Relinquished by: (Signature)		Received by: (Signature)		
					Printed Name: Kenny King		Printed Name: STAN RADMAN		Printed Name:		Printed Name:		
					Company: PERC		Company: ARTILL		Company:		Company:		
					Date & Time: 8/30/23 13:20		Date & Time: 8-30-23 13:20		Date & Time:		Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2023 13:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-330A-083023	23H0703-01	Solid	30-Aug-2023 09:10	30-Aug-2023 13:20
SO-TC-330B-083023	23H0703-02	Solid	30-Aug-2023 09:20	30-Aug-2023 13:20
SO-TC-330C-083023	23H0703-03	Solid	30-Aug-2023 09:30	30-Aug-2023 13:20



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2023 13:13

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 23H0703

Sample receipt

Samples as listed on the preceding page were received 30-Aug-2023 13:20 under ARI work order 23H0703. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals with EPA Method 6010D

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

The matrix spike (MS) percent recoveries were within control limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superion Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other

Assigned ARI Job No: 23H0703

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 13:20

24

If cooler temperature is out of compliance fill out form D0070F

Temp Gun ID#: J004708

Cooler Accepted by: SM

Date: 8-30-23

Time 13:20

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: None

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time Equipment Split by

Samples Logged by: MD Date 08/30/23 Time 14:51 Labels checked by: MD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

00070F

Cooler Temperature Compliance Form

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2023 13:13

SO-TC-330A-083023

23H0703-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/30/2023 09:10

Instrument: ICP3 Analyst: DOE

Analyzed: 09/01/2023 11:53

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23H0703-01 A 02

Preparation Batch: BLI0001

Sample Size: 25 mL (wet)

Prepared: 09/01/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0465	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0090	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2023 13:13

SO-TC-330A-083023
23H0703-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/30/2023 09:10

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 09/01/2023 12:48

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23H0703-01 A 02

Preparation Batch: BLH0864

Sample Size: 20.4586 g (wet)

Prepared: 08/31/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.57	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2023 13:13

SO-TC-330B-083023
23H0703-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/30/2023 09:20

Instrument: ICP3 Analyst: DOE

Analyzed: 09/01/2023 11:50

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23H0703-02 A 02

Preparation Batch: BLI0001

Sample Size: 25 mL (wet)

Prepared: 09/01/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0825	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0125	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2023 13:13

SO-TC-330B-083023
23H0703-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/30/2023 09:20

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 09/01/2023 12:48

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23H0703-02 A 02

Preparation Batch: BLH0864

Sample Size: 20.2569 g (wet)

Prepared: 08/31/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.62	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2023 13:13

SO-TC-330C-083023
23H0703-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 08/30/2023 09:30

Instrument: ICP3 Analyst: DOE

Analyzed: 09/01/2023 11:47

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23H0703-03 A 02

Preparation Batch: BLI0001

Sample Size: 25 mL (wet)

Prepared: 09/01/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0435	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0110	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2023 13:13

SO-TC-330C-083023
23H0703-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 08/30/2023 09:30

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 09/01/2023 12:48

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23H0703-03 A 02

Preparation Batch: BLH0864

Sample Size: 20.1004 g (wet)

Prepared: 08/31/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.83	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2023 13:13

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLI0001 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BLI0001-BLK1)					Prepared: 01-Sep-2023 Analyzed: 01-Sep-2023 11:44						
Arsenic	0.0155	0.0140	0.250	mg/L							J
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BLI0001-DUP1)					Source: 23H0703-01 Prepared: 01-Sep-2023 Analyzed: 01-Sep-2023 11:55						
Arsenic	0.0750	0.0140	0.250	mg/L		0.0465			46.90	20	L, J
Lead	ND	0.0065	0.100	mg/L		0.0090					U
Matrix Spike (BLI0001-MS1)					Source: 23H0703-01 Prepared: 01-Sep-2023 Analyzed: 01-Sep-2023 11:58						
Arsenic	4.41	0.0140	0.250	mg/L	4.0000	0.0465	109	75-125			
Lead	4.12	0.0065	0.100	mg/L	4.0000	0.0090	103	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2023 13:13

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLH0864 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
LCS (BLH0864-BS1)													
Prepared: 31-Aug-2023						Analyzed: 01-Sep-2023 12:48							
pH	7.00	0.01	0.01	pH Units	7.0000		100	99.2-100.8					
Duplicate (BLH0864-DUP1)													
Source: 23H0703-01				Prepared: 31-Aug-2023								Analyzed: 01-Sep-2023 12:48	
pH	9.54	0.01	0.01	pH Units		9.57			0.31	20			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2023 13:13

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
05-Sep-2023 13:13

Notes and Definitions

J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Two data packages for you consideration

From Keith Johnston <KJohnston@tpchd.org>

Date Fri 10/13/2023 10:23 AM

To 'JEFFREY KING' <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>

We agree with your designation. Thank you.

Keith Johnston, RS

Environmental Health Specialist Supervisor- Waste Management
Environmental Health

(253) 405-8604 c • kjohnston@tpchd.org

(253) 649-1840 o • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

We're open to serve you!

We'll continue to offer services online, too. For more information, see the yellow bar at the top of tpchd.org.

[Waste Disposal Authorization](#)

From: JEFFREY KING <jking@perc-nw.com>

Sent: Friday, October 13, 2023 9:53 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: Two data packages for you consideration

CAUTION: External Email - Verify contents

Keith:

Attached are two data packages for your consideration. This data (summarized below) are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 19 cubic yards of soil. We are asking for approval to dispose of this soil at the LRI landfill under permit number WDA 2716R.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-331A-092723	0.024	ND	9.88	Asking for approval
SO-TC-331B-092723	0.045	ND	9.17	Asking for approval
SO-TC-331C-092723	0.168	0.026	9.4	Asking for approval
SO-TC-332A-100323	0.217	ND	9.63	Asking for approval
SO-TC-332B-100323	0.251	ND	9.68	Asking for approval

SO-TC-332C-100323	0.149	ND	9.83	Asking for approval
-------------------	-------	----	------	---------------------

Thank you

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

This communication is for use by the intended recipient and contains information that may be privileged, confidential or copyrighted under applicable law. If you are not the intended recipient, you are hereby formally notified that any use, copying or distribution of this e-mail, in whole or in part, is strictly prohibited. Please notify the sender by return e-mail and delete this e-mail from your system. This e-mail does not constitute a consent to the use of sender's contact information for direct marketing purposes or for transfers of data to third parties.

Thank you.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

10 October 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23I0818

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed by
Phillip Bates
Date: 2023.10.10
16:57:37 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 23I0818		Turn-around Requested: 3 Day			Date: 9/27/2023			 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)														
ARI Client Company: PERC		Phone: 4253460921			Page: of																	
Client Contact: Kenny King					No. of Coolers: 1 Cooler Temps: 21.9 °C																	
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments										
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only pH 9045C																	
Sample ID	Date	Time	Matrix	No. Containers																		
SO-TC-331A-092723	09/27/23	12:50	SOIL	1										✓	✓							
SO-TC-331B-092723	09/27/23	13:00	SOIL	1										✓	✓							
SO-TC-331C-092723	09/27/23	13:10	SOIL	1										✓	✓							
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>			Received by: <i>Matthew Neri</i>			Relinquished by:			Received by:								
					Printed Name: Kenny King			Printed Name: <i>Matthew Neri</i>			Printed Name:			Printed Name:								
					Company: PERC			Company: <i>ARLL</i>			Company:			Company:								
					Date & Time: 9/27/23 16:36			Date & Time: <i>09/27/23 1636</i>			Date & Time:			Date & Time:								

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Oct-2023 16:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-331A-092723	23I0818-01	Solid	27-Sep-2023 12:50	27-Sep-2023 16:36
SO-TC-331B-092723	23I0818-02	Solid	27-Sep-2023 13:00	27-Sep-2023 16:36
SO-TC-331C-092723	23I0818-03	Solid	27-Sep-2023 13:10	27-Sep-2023 16:36



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Oct-2023 16:56

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 23I0818

Sample receipt

Samples as listed on the preceding page were received 27-Sep-2023 16:36 under ARI work order 23I0818. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals EPA Method 1311 & 6010D

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 2310818

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES YES NO

Were custody papers properly filled out (ink, signed, etc.) YES YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1636

21.9

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 5009208

Cooler Accepted by: MD Date: 09/27/23 Time: 1636

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES YES NO

Were all bottle labels complete and legible? YES YES NO

Did the number of containers listed on COC match with the number of containers received? YES YES NO

Did all bottle labels and tags agree with custody papers? YES YES NO

Were all bottles used correct for the requested analyses? YES YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES YES NO

Was sufficient amount of sample sent in each bottle? YES YES NO

Date VOC Trip Blank was made at ARI: _____ NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Jay B Date: 9/28/23 Time: 10:16 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Oct-2023 16:56

SO-TC-331A-092723

23I0818-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 09/27/2023 12:50

Instrument: ICP3 Analyst: DOE

Analyzed: 10/04/2023 10:57

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23I0818-01 A 02

Preparation Batch: BLJ0055

Sample Size: 25 mL (wet)

Prepared: 10/03/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0240	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Oct-2023 16:56

SO-TC-331A-092723
23I0818-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/27/2023 12:50

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 10/06/2023 12:22

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23I0818-01 A

Preparation Batch: BLJ0031

Sample Size: 20.0996 g (wet)

Prepared: 10/02/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.88	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Oct-2023 16:56

SO-TC-331B-092723
23I0818-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 09/27/2023 13:00

Instrument: ICP3 Analyst: DOE

Analyzed: 10/04/2023 11:00

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23I0818-02 A 02

Preparation Batch: BLJ0055

Sample Size: 25 mL (wet)

Prepared: 10/03/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0450	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Oct-2023 16:56

SO-TC-331B-092723
23I0818-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/27/2023 13:00

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 10/06/2023 12:22

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23I0818-02 A

Preparation Batch: BLJ0031

Sample Size: 20.69 g (wet)

Prepared: 10/02/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.17	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Oct-2023 16:56

SO-TC-331C-092723
23I0818-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 09/27/2023 13:10

Instrument: ICP3 Analyst: DOE

Analyzed: 10/04/2023 11:03

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23I0818-03 A 02

Preparation Batch: BLJ0055

Sample Size: 25 mL (wet)

Prepared: 10/03/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.168	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0260	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Oct-2023 16:56

SO-TC-331C-092723
23I0818-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 09/27/2023 13:10

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 10/06/2023 12:22

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23I0818-03 A

Preparation Batch: BLJ0031

Sample Size: 20.5896 g (wet)

Prepared: 10/02/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.40	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Oct-2023 16:56

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLJ0055 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BLJ0055-BLK1)					Prepared: 03-Oct-2023 Analyzed: 04-Oct-2023 09:27					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Oct-2023 16:56

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLJ0031 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BLJ0031-BS1)						Prepared: 02-Oct-2023 Analyzed: 06-Oct-2023 12:22				
pH	7.01	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BLJ0031-DUP1)						Source: 23I0818-01 Prepared: 02-Oct-2023 Analyzed: 06-Oct-2023 12:22				
pH	9.79	0.01	0.01	pH Units	9.88			0.92	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Oct-2023 16:56

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Oct-2023 16:56

Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
D	The reported value is from a dilution
H	Hold time violation - Hold time was exceeded.
J	Estimated concentration value detected below the reporting limit.
L	Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

09 October 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23J0104

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed
by Phillip Bates
Date: 2023.10.09
14:03:33 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 23J0104		Turn-around Requested: 3 Day			Date: 10/3/2023				Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)					
ARI Client Company: PERC		Phone: 4253460921			Page: of									
Client Contact: Kenny King					No. of Coolers: Cooler Temps: 22.2°									
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments		
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-332A-100323	10/03/23	13:25	SOIL	1	✓	✓								
SO-TC-332B-100323	10/03/23	13:35	SOIL	1	✓	✓								
SO-TC-332C-100323	10/03/23	13:45	SOIL	1	✓	✓								
Comments/Special Instructions	Relinquished by:		Received by:			Relinquished by:			Received by:					
	(Signature) <i>Kenny King</i>		(Signature) <i>Ronan M.</i>			(Signature)			(Signature)					
	Printed Name: Kenny King		Printed Name: Ronan M.			Printed Name:			Printed Name:					
	Company: PERC		Company: ARI			Company:			Company:					
	Date & Time: 10/3/23 16:47		Date & Time: 10/3/23 16:47			Date & Time:			Date & Time:					

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Oct-2023 13:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-332A-100323	23J0104-01	Solid	03-Oct-2023 13:25	03-Oct-2023 16:47
SO-TC-332B-100323	23J0104-02	Solid	03-Oct-2023 13:35	03-Oct-2023 16:47
SO-TC-332C-100323	23J0104-03	Solid	03-Oct-2023 13:45	03-Oct-2023 16:47



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Oct-2023 13:36

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 23J0104

Sample receipt

Samples as listed on the preceding page were received 03-Oct-2023 16:47 under ARI work order 23J0104. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals with EPA Method 6010D

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC
COC No(s): NA
Assigned ARI Job No: 2370104

Project Name: Superlon plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA
Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES YES NO
Were custody papers properly filled out (ink, signed, etc.) YES YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 22.2°
Time 1647
If cooler temperature is out of compliance fill out form 00070F
Cooler Accepted by: [Signature] Date: 10/3/23 Temp Gun ID#: 9708 Time: 1647

Complete custody forms and attach all shipping documents

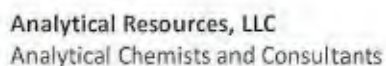
Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA
Was sufficient ice used (if appropriate)? ... Individually Grouped Not
How were bottles sealed in plastic bags? YES YES NO
Did all bottles arrive in good condition (unbroken)? YES YES NO
Were all bottle labels complete and legible? YES YES NO
Did the number of containers listed on COC match with the number of containers received? YES YES NO
Did all bottle labels and tags agree with custody papers? YES YES NO
Were all bottles used correct for the requested analyses? YES YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? NA YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____
Samples Logged by: [Signature] Date: 10/3/23 Time: 1658 Labels checked by: [Signature]
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

00070F

Cooler Temperature Compliance Form

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Oct-2023 13:36

SO-TC-332A-100323

23J0104-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 10/03/2023 13:25

Instrument: ICP3 Analyst: DOE

Analyzed: 10/06/2023 09:35

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23J0104-01 A 02

Preparation Batch: BLJ0171

Sample Size: 25 mL (wet)

Prepared: 10/05/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.217	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Oct-2023 13:36

SO-TC-332A-100323
23J0104-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/03/2023 13:25

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 10/06/2023 12:45

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23J0104-01 A

Preparation Batch: BLJ0202

Sample Size: 20 g (wet)

Prepared: 10/05/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.63	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Oct-2023 13:36

SO-TC-332B-100323
23J0104-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 10/03/2023 13:35

Instrument: ICP3 Analyst: DOE

Analyzed: 10/06/2023 09:38

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23J0104-02 A 02

Preparation Batch: BLJ0171

Sample Size: 25 mL (wet)

Prepared: 10/05/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.251	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Oct-2023 13:36

SO-TC-332B-100323
23J0104-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/03/2023 13:35

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 10/06/2023 12:45

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23J0104-02 A

Preparation Batch: BLJ0202

Sample Size: 20 g (wet)

Prepared: 10/05/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.68	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Oct-2023 13:36

SO-TC-332C-100323
23J0104-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 10/03/2023 13:45

Instrument: ICP3 Analyst: DOE

Analyzed: 10/06/2023 09:41

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23J0104-03 A 02

Preparation Batch: BLJ0171

Sample Size: 25 mL (wet)

Prepared: 10/05/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.149	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Oct-2023 13:36

SO-TC-332C-100323
23J0104-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/03/2023 13:45

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 10/06/2023 12:45

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23J0104-03 A

Preparation Batch: BLJ0202

Sample Size: 20 g (wet)

Prepared: 10/05/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.83	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Oct-2023 13:36

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLJ0171 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BLJ0171-BLK1)						Prepared: 05-Oct-2023 Analyzed: 06-Oct-2023 09:29				
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Oct-2023 13:36

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLJ0202 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BLJ0202-BS1)									
Prepared: 05-Oct-2023 Analyzed: 06-Oct-2023 12:45									
pH	7.02	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Oct-2023 13:36

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-Oct-2023 13:36

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

**RE: Three data packages for your consideration**

From EH SolidWaste <EHSolidWaste@tpchd.org>

Date Tue 11/14/2023 12:05 PM

To JEFFREY KING <jking@perc-nw.com>; Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>

Thank you, Jeff. We agree with your designation and that the soils are acceptable under WDA 2716R. Hope you have a Happy Holidays, and we will see you next year!

From: JEFFREY KING <jking@perc-nw.com>

Sent: Monday, November 13, 2023 2:32 PM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: Three data packages for your consideration

CAUTION: External Email - Verify contents

Keith:

Attached are three data packages for your consideration. This data, shown and summarized below, are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 19 cubic yards of soil. We are proposing to dispose of this soil at the LRI landfill under permit number WDA 2716R. These will be the last submittal for the year. We will need to dispose of soils at LRI for one last year in 2024. We will be closed until April and will reach out to you for another permit in March.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-333A-101023	0.0995	0.092	9.99	Asking for approval
SO-TC-333B-101023	0.106	0.014	9.98	Asking for approval
SO-TC-333C-101023	0.454	0.16	9.44	Asking for approval
O-TC-334A-102323	0.134	ND	11.2	Asking for approval
O-TC-334B-102323	0.074	ND	10.8	Asking for approval
O-TC-334C-102323	0.0755	ND	10.8	Asking for approval
SO-TC-335A-110123	0.365	ND	11.2	Asking for approval
SO-TC-335B-110123	0.0955	ND	12.2	Asking for approval
SO-TC-335C-110123	0.077	ND	10.7	Asking for approval

Thanks for everything.

Jeff

Jeffrey D King, PG/LG
President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com

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Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

17 October 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23J0310

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed
by Phillip Bates
Date: 2023.10.17
16:45:41 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2350310		Turn-around Requested: 3 Day			Date: 10/10/2023		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 4253460921			Page: of									
Client Contact: Kenny King					No. of Coolers: Cooler Temps: 21.7									
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments		
Client Project #: SLON		Samplers: Oliva-Membreno			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-333A-101023	10/10/23	13:50	SOIL	1	✓	✓								
SO-TC-333B-101023	10/10/23	14:00	SOIL	1	✓	✓								
SO-TC-333C-101023	10/10/23	14:10	SOIL	1	✓	✓								
Comments/Special Instructions		Relinquished by:			Received by:			Relinquished by:			Received by:			
		(Signature) <i>Kenny King</i>			(Signature) <i>Phillip Bates</i>			(Signature)			(Signature)			
		Printed Name:			Printed Name:			Printed Name:			Printed Name:			
		Kenny King			Phillip Bates									
Company:		Company:			Company:			Company:			Company:			
		PERC			AR									
Date & Time:		Date & Time:			Date & Time:			Date & Time:			Date & Time:			
		10/10/2023 16:42			10/10/23 16:42									

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Oct-2023 16:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-333A-101023	23J0310-01	Solid	09-Oct-2023 13:50	10-Oct-2023 16:42
SO-TC-333B-101023	23J0310-02	Solid	09-Oct-2023 14:00	10-Oct-2023 16:42
SO-TC-333C-101023	23J0310-03	Solid	09-Oct-2023 14:10	10-Oct-2023 16:42



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Oct-2023 16:44

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 23J0310

Sample receipt

Samples as listed on the preceding page were received 10-Oct-2023 16:42 under ARI work order 23J0310. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superton plastics

COC No(s): 23J0310 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 23J0310

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 16:42

21.7

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 5009905

Cooler Accepted by: PEB Date: 10/10/23 Time: 16:42

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: [Signature] Date: 10/10/23 Time: 1648 Labels checked by:

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By:

Date:



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Oct-2023 16:44

SO-TC-333A-101023

23J0310-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 10/09/2023 13:50

Instrument: ICP3 Analyst: DOE

Analyzed: 10/16/2023 08:18

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23J0310-01 A 02

Preparation Batch: BLJ0442

Sample Size: 25 mL (wet)

Prepared: 10/13/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0995	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0920	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Oct-2023 16:44

SO-TC-333A-101023
23J0310-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/09/2023 13:50

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 10/16/2023 18:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23J0310-01 A 02

Preparation Batch: BLJ0463

Sample Size: 20 g (wet)

Prepared: 10/13/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.99	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Oct-2023 16:44

SO-TC-333B-101023
23J0310-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 10/09/2023 14:00

Instrument: ICP3 Analyst: DOE

Analyzed: 10/16/2023 08:21

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23J0310-02 A 02

Preparation Batch: BLJ0442

Sample Size: 25 mL (wet)

Prepared: 10/13/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.106	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0140	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Oct-2023 16:44

SO-TC-333B-101023
23J0310-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/09/2023 14:00

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 10/16/2023 18:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23J0310-02 A 02

Preparation Batch: BLJ0463

Sample Size: 20 g (wet)

Prepared: 10/13/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.98	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Oct-2023 16:44

SO-TC-333C-101023
23J0310-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 10/09/2023 14:10

Instrument: ICP3 Analyst: DOE

Analyzed: 10/16/2023 08:24

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23J0310-03 A 02

Preparation Batch: BLJ0442

Sample Size: 25 mL (wet)

Prepared: 10/13/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.454	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.160	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Oct-2023 16:44

SO-TC-333C-101023
23J0310-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/09/2023 14:10

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 10/16/2023 18:03

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23J0310-03 A 02

Preparation Batch: BLJ0463

Sample Size: 20 g (wet)

Prepared: 10/13/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.44	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Oct-2023 16:44

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLJ0442 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BLJ0442-BLK1)					Prepared: 13-Oct-2023 Analyzed: 16-Oct-2023 08:15					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Oct-2023 16:44

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLJ0463 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BLJ0463-BS1)									
Prepared: 13-Oct-2023 Analyzed: 16-Oct-2023 18:03									
pH	7.01	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Oct-2023 16:44

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-Oct-2023 16:44

Notes and Definitions

*	Flagged value is not within established control limits.
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

02 November 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23J0611

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed
by Phillip Bates
Date: 2023.11.02
12:29:55 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 23J0611	Turn-around Requested: 3 Day
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Date: 10/23/2023

ARI Client Company: PERC	Phone: 4253460921
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Page: _____ of _____

Client Contact: Kenny King

No. of Coolers: 1	Cooler Temps: 20.8°C
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Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Client Project Name: Superlon Plastics

Analysis Requested										Notes/Comments
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Client Project #: SLON	Samplers: Oliva-Membreno
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Sample ID	Date	Time	Matrix	No. Containers
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TCLP 1311 As/Pb Only	pH 9045C									
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SO-TC-334A-102323	10/23/23	11:30	SOIL	1
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✓	✓									
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SO-TC-334B-102323	10/23/23	11:40	SOIL	1
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✓	✓									
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SO-TC-334C-102323	10/23/23	11:50	SOIL	1
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✓	✓									
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Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>	Received by: (Signature) <i>Matthew Pearce</i>	Relinquished by: (Signature)	Received by: (Signature)
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Printed Name: Kenny King	Printed Name: Matthew Pearce	Printed Name:	Printed Name:
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Company: PERC	Company: ARLCC	Company:	Company:
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Date & Time: 10/23/23 16:37	Date & Time: 10/23/23 16:37	Date & Time:	Date & Time:
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Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2023 12:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-334A-102323	23J0611-01	Solid	23-Oct-2023 11:30	23-Oct-2023 16:37
SO-TC-334B-102323	23J0611-02	Solid	23-Oct-2023 11:40	23-Oct-2023 16:37
SO-TC-334C-102323	23J0611-03	Solid	23-Oct-2023 11:50	23-Oct-2023 16:37



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2023 12:28

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 23J0611

Sample receipt

Samples as listed on the preceding page were received 23-Oct-2023 16:37 under ARI work order 23J0611. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals - EPA Method 1311 and 6010D

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superion Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 23J0611

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1637

20.8°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 5009708

Cooler Accepted by: mn

Date: 10/23/23

Time: 1637

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? ...

Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES NO

How were bottles sealed in plastic bags? _____

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI: _____

NA

Were the sample(s) split by ARI? NA YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: mn

Date: 10/24/23

Time: 0903

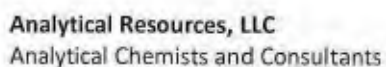
Labels checked by: LB

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 2350611

Cooler#: 1
Temperature(°C): 20.5°C

Sample ID	Bottle Count	Bottle Type
Samples received above 6.0°C		

Cooler#: _____
Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Cooler#: _____
Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Cooler#: _____
Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Completed by: MD
Date: 10/23/23
Time: 1637

00070F

Cooler Temperature Compliance Form

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2023 12:28

SO-TC-334A-102323

23J0611-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 10/23/2023 11:30

Instrument: ICP3 Analyst: DOE

Analyzed: 10/26/2023 10:03

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23J0611-01 A 02

Preparation Batch: BLJ0773

Sample Size: 25 mL (wet)

Prepared: 10/25/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.134	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2023 12:28

SO-TC-334A-102323
23J0611-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/23/2023 11:30

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 10/31/2023 16:27

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23J0611-01 A

Preparation Batch: BLJ0917

Sample Size: 20.1057 g (wet)

Prepared: 10/30/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	11.2	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2023 12:28

SO-TC-334B-102323
23J0611-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 10/23/2023 11:40

Instrument: ICP3 Analyst: DOE

Analyzed: 10/26/2023 10:06

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23J0611-02 A 02

Preparation Batch: BLJ0773

Sample Size: 25 mL (wet)

Prepared: 10/25/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0740	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2023 12:28

SO-TC-334B-102323
23J0611-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/23/2023 11:40

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 10/31/2023 16:27

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23J0611-02 A

Preparation Batch: BLJ0917

Sample Size: 20.8692 g (wet)

Prepared: 10/30/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.8	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2023 12:28

SO-TC-334C-102323
23J0611-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 10/23/2023 11:50

Instrument: ICP3 Analyst: DOE

Analyzed: 10/26/2023 10:09

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23J0611-03 A 02

Preparation Batch: BLJ0773

Sample Size: 25 mL (wet)

Prepared: 10/25/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0755	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2023 12:28

SO-TC-334C-102323
23J0611-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 10/23/2023 11:50

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 10/31/2023 16:27

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23J0611-03 A

Preparation Batch: BLJ0917

Sample Size: 20.4299 g (wet)

Prepared: 10/30/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.8	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2023 12:28

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLJ0773 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BLJ0773-BLK1)					Prepared: 25-Oct-2023 Analyzed: 26-Oct-2023 09:51					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2023 12:28

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLJ0917 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BLJ0917-BS1)									
Prepared: 30-Oct-2023 Analyzed: 31-Oct-2023 16:27									
pH	7.02	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2023 12:28

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
02-Nov-2023 12:28

Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

10 November 2023

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
23K0033

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 23K0033		Turn-around Requested: 3 Day			Date: 11/1/2023		 Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)							
ARI Client Company: PERC		Phone: 4253460921			Page: of									
Client Contact: Kenny King					No. of Coolers: Cooler Temps:									
Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments	
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-335A-110123	11/01/23	09:25	SOIL	1	✓	✓								
SO-TC-335B-110123	11/01/23	09:35	SOIL	1	✓	✓								
SO-TC-335C-110123	11/01/23	09:45	SOIL	1	✓	✓								
Comments/Special Instructions		Relinquished by:		Received by:		Relinquished by:		Received by:						
		(Signature) <i>Kenny King</i>		(Signature) <i>[Signature]</i>		(Signature)		(Signature)						
		Printed Name: <i>Kenny King</i>		Printed Name: <i>Remon</i>		Printed Name:		Printed Name:						
		Company: <i>PERC</i>		Company: <i>ARI</i>		Company:		Company:						
		Date & Time: <i>11/1/23 16:37</i>		Date & Time: <i>11/1/23 16:37</i>		Date & Time:		Date & Time:						

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2023 12:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-335A-110123	23K0033-01	Solid	01-Nov-2023 09:25	01-Nov-2023 16:37
SO-TC-335B-110123	23K0033-02	Solid	01-Nov-2023 09:35	01-Nov-2023 16:37
SO-TC-335C-110123	23K0033-03	Solid	01-Nov-2023 09:45	01-Nov-2023 16:37



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2023 12:15

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 23K0033

Sample receipt

Samples as listed on the preceding page were received 01-Nov-2023 16:37 under ARI work order 23K0033. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PERC

Project Name: Superkin Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 23K0033

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES (NO)

Were custody papers included with the cooler? YES (NO)

Were custody papers properly filled out (ink, signed, etc.) YES (NO)

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1637 16.2°

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# 9208

Cooler Accepted by: h Date: 11/1/23 Time: 1637

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES (NO)

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES (NO)

Were all bottle labels complete and legible? YES (NO)

Did the number of containers listed on COC match with the number of containers received? YES (NO)

Did all bottle labels and tags agree with custody papers? YES (NO)

Were all bottles used correct for the requested analyses? YES (NO)

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... (NA) YES (NO)

Were all VOC vials free of air bubbles? (NA) YES (NO)

Was sufficient amount of sample sent in each bottle? YES (NO)

Date VOC Trip Blank was made at ARI: _____ (NA)

Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: h Date: 11/1/23 Time: 1644 Labels checked by: h

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: [Signature] Date: 11/1/23 Time: 1627



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2023 12:15

SO-TC-335A-110123

23K0033-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/01/2023 09:25

Instrument: ICP3 Analyst: DOE

Analyzed: 11/06/2023 08:43

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23K0033-01 A 02

Preparation Batch: BLK0123

Sample Size: 25 mL

Prepared: 11/03/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.365	mg/L	
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2023 12:15

SO-TC-335A-110123
23K0033-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/01/2023 09:25

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 11/09/2023 14:31

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23K0033-01 A 02

Preparation Batch: BLK0221

Sample Size: 20.5517 g (wet)

Prepared: 11/07/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	11.2	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2023 12:15

SO-TC-335B-110123
23K0033-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/01/2023 09:35

Instrument: ICP3 Analyst: DOE

Analyzed: 11/06/2023 08:46

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23K0033-02 A 02

Preparation Batch: BLK0123

Sample Size: 25 mL

Prepared: 11/03/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0955	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2023 12:15

SO-TC-335B-110123
23K0033-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/01/2023 09:35

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 11/09/2023 14:31

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23K0033-02 A 02

Preparation Batch: BLK0221

Sample Size: 20.7679 g (wet)

Prepared: 11/07/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	12.2	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2023 12:15

SO-TC-335C-110123
23K0033-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 11/01/2023 09:45

Instrument: ICP3 Analyst: DOE

Analyzed: 11/06/2023 08:49

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 23K0033-03 A 02

Preparation Batch: BLK0123

Sample Size: 25 mL

Prepared: 11/03/2023

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0770	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2023 12:15

SO-TC-335C-110123
23K0033-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 11/01/2023 09:45

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 11/09/2023 14:31

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 23K0033-03 A 02

Preparation Batch: BLK0221

Sample Size: 20.1205 g (wet)

Prepared: 11/07/2023

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	10.7	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2023 12:15

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BLK0123 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BLK0123-BLK1)						Prepared: 03-Nov-2023 Analyzed: 06-Nov-2023 08:25					
Arsenic	0.0155	0.0140	0.250	mg/L							J
Lead	ND	0.0065	0.100	mg/L							U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2023 12:15

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BLK0221 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BLK0221-BS1)						Prepared: 07-Nov-2023 Analyzed: 09-Nov-2023 14:31					
pH	6.98	0.01	0.01	pH Units	7.00		99.7	99.2-100.8			
Duplicate (BLK0221-DUP2)						Source: 23K0033-01 Prepared: 07-Nov-2023 Analyzed: 09-Nov-2023 14:31					
pH	11.1	0.01	0.01	pH Units		11.2			0.36	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2023 12:15

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Water	
Arsenic	NELAP,DoD-ELAP,WADOE
Lead	DoD-ELAP,NELAP,WADOE
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
10-Nov-2023 12:15

Notes and Definitions

- * Flagged value is not within established control limits.
- J Estimated concentration value detected below the reporting limit.
- U This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- [2C] Indicates this result was quantified on the second column on a dual column analysis.

**RE: One data package for your consideration**

From Keith Johnston <KJohnston@tpchd.org>

Date Mon 4/15/2024 8:05 AM

To JEFFREY KING <jking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc kking perc-nw.com <kking@perc-nw.com>

Looks good. We agree with your characterization. Thank you!

Keith Johnston, RS (he/him)

EHSS Waste EH
(253) 405-8604 c

From: JEFFREY KING <jking@perc-nw.com>

Sent: Saturday, April 13, 2024 8:12 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: 'kking@perc-nw.com' <kking@perc-nw.com>

Subject: One data package for your consideration

CAUTION: External Email - Verify contents

Keith:

The attached data, shown and summarized below, are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 21 cubic yards of soil. We are asking for permission to dispose of this soil at the LRI landfill under permit number WDA 2793R.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-336A-040824	0.092	ND	9.68	Asking for approval
SO-TC-336B-040824	0.094	ND	9.72	Asking for approval
SO-TC-336C-040824	0.0625	ND	9.58	Asking for approval

Thanks

Jeff

Jeffrey D King, PG/LG

President/Geologist

Pacific Environmental & Redevelopment Corporation (PERC)

8424 E Meadow Lake Drive

Snohomish, WA 98290

425.238.2212

jking@perc-nw.com



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

12 April 2024

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
24D0200

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed
by Phillip Bates
Date: 2024.04.12
17:19:05 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: <u>24D0200</u>		Turn-around Requested: <u>3 Day</u>		Date: <u>4/8/2024</u>		 Analytical Resources, LLC Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6202 (fax)																																																																																																																						
AR Client Company: <u>PERC</u>		Phone: <u>425-346-0921</u>		Page: <u> </u> of <u> </u>																																																																																																																								
Client Contact: <u>Kenny King</u>				No. of Coolers: <u> </u> Cooler Temps: <u> </u>																																																																																																																								
Client Project Name: <u>Superlon Plastics</u>				<table border="1"> <thead> <tr> <th colspan="8">Analysis Requested</th> <th>Notes/Comments</th> </tr> <tr> <th>TCLP 1311 As/Pb Only</th> <th>pH 9045C</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				Analysis Requested								Notes/Comments	TCLP 1311 As/Pb Only	pH 9045C								✓	✓								✓	✓								✓	✓																																																																															
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Client Project #: <u>SLON</u>		Samplers: <u>King</u>																																																																																																																										
Sample ID	Date	Time	Matrix	No. Containers																																																																																																																								
SO-TC-336A-040824	04/08/24	07:30	Soil	1	✓	✓																																																																																																																						
SO-TC-336B-040824	04/08/24	07:45	Soil	1	✓	✓																																																																																																																						
SO-TC-336C-040824	04/08/24	08:00	Soil	1	✓	✓																																																																																																																						
Comments/Special Instructions		Relinquished by: (Signature) <u>Kenny King</u>		Received by: (Signature) <u>Roum</u>		Relinquished by: (Signature) <u> </u>		Received by: (Signature) <u> </u>																																																																																																																				
		Printed Name: <u>Kenny King</u>		Printed Name: <u>Roum</u>		Printed Name: <u> </u>		Printed Name: <u> </u>																																																																																																																				
		Company: <u>PERC</u>		Company: <u>ARL</u>		Company: <u> </u>		Company: <u> </u>																																																																																																																				
		Date & Time: <u>4/8/24 16:45</u>		Date & Time: <u>4/8/24 1645</u>		Date & Time: <u> </u>		Date & Time: <u> </u>																																																																																																																				

Limits of Liability: Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Apr-2024 17:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-336A-040824	24D0200-01	Solid	08-Apr-2024 07:30	08-Apr-2024 16:45
SO-TC-336B-040824	24D0200-02	Solid	08-Apr-2024 07:45	08-Apr-2024 16:45
SO-TC-336C-040824	24D0200-03	Solid	08-Apr-2024 08:00	08-Apr-2024 16:45



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Apr-2024 17:10

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 24D0200

Sample receipt

Samples as listed on the preceding page were received 08-Apr-2024 16:45 under ARI work order 24D0200. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals - EPA Method 1311 & 6010D

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC
COC No(s): _____ (NA)
Assigned ARI Job No: 24D0200

Project Name: Superior Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1645 18.2°

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 9208

Cooler Accepted by: R Date: 4/8/24 Time: 1645

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: R Date: 4/8/24 Time: 1650 Labels checked by: R

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Apr-2024 17:10

SO-TC-336A-040824

24D0200-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/08/2024 07:30

Instrument: ICP3 Analyst: DOE

Analyzed: 04/11/2024 10:49

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0200-01 A 02

Preparation Batch: BMD0261

Sample Size: 25 mL (wet)

Prepared: 04/10/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0920	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Apr-2024 17:10

SO-TC-336A-040824
24D0200-01RE1 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/08/2024 07:30

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 04/12/2024 15:35

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0200-01RE1 A

Preparation Batch: BMD0340

Sample Size: 20.3929 g (wet)

Prepared: 04/12/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.68	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Apr-2024 17:10

SO-TC-336B-040824
24D0200-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/08/2024 07:45

Instrument: ICP3 Analyst: DOE

Analyzed: 04/11/2024 10:52

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0200-02 A 02

Preparation Batch: BMD0261

Sample Size: 25 mL (wet)

Prepared: 04/10/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0940	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Apr-2024 17:10

SO-TC-336B-040824
24D0200-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/08/2024 07:45

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 04/12/2024 15:35

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0200-02 A

Preparation Batch: BMD0340

Sample Size: 20.4188 g (wet)

Prepared: 04/12/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.72	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Apr-2024 17:10

SO-TC-336C-040824
24D0200-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/08/2024 08:00

Instrument: ICP3 Analyst: DOE

Analyzed: 04/11/2024 10:55

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0200-03 A 02

Preparation Batch: BMD0261

Sample Size: 25 mL (wet)

Prepared: 04/10/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0625	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Apr-2024 17:10

SO-TC-336C-040824
24D0200-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/08/2024 08:00

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 04/12/2024 15:35

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0200-03 A

Preparation Batch: BMD0340

Sample Size: 20.0396 g (wet)

Prepared: 04/12/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.58	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Apr-2024 17:10

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BMD0261 - EPA 6010D

Instrument: ICP3 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BMD0261-BLK1)					Prepared: 10-Apr-2024 Analyzed: 11-Apr-2024 10:34					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Apr-2024 17:10

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BMD0340 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BMD0340-BS1)					Prepared: 12-Apr-2024 Analyzed: 12-Apr-2024 15:35					
pH	6.98	0.01	0.01	pH Units	7.00	99.7	99.2-100.8			
Duplicate (BMD0340-DUP2)					Source: 24D0200-01RE1 Prepared: 12-Apr-2024 Analyzed: 12-Apr-2024 15:35					
pH	9.69	0.01	0.01	pH Units	9.68			0.10	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Apr-2024 17:10

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024
WADOE	WA Dept of Ecology	C558	06/30/2024
WA-DW	Ecology - Drinking Water	C558	06/30/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
12-Apr-2024 17:10

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

**RE: Three data packages for your consideration**

From EH SolidWaste <EHSolidWaste@tpchd.org>

Date Mon 4/22/2024 3:33 PM

To kking perc-nw.com <kking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc JEFFREY KING <jking@percnw.com>

Kenny,

We agree with your assessment that these soils are non-hazardous and appropriate for disposal under WDA2793R.

Thank you,

Keith Johnston, RS (he/him)

EHSS Waste EH
(253) 405-8604 c

From: kking perc-nw.com <kking@perc-nw.com>

Sent: Saturday, April 20, 2024 6:43 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: JEFFREY KING <jking@percnw.com>

Subject: Three data packages for your consideration

CAUTION: External Email - Verify contents

Hi Keith,

The attached data, shown and summarized below, are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 21 cubic yards of soil. We are asking for permission to dispose of this soil at the LRI landfill under permit number WDA 2793R.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-337A-040924	0.043	0.0105	9.42	Asking for approval
SO-TC-337B-040924	0.039	ND	9.67	Asking for approval
SO-TC-337C-040924	0.0255	ND	9.3	Asking for approval
SO-TC-338A-041024	0.08	ND	9.46	Asking for approval
SO-TC-338B-041024	0.063	ND	9.43	Asking for approval
SO-TC-338C-041024	0.034	ND	9.48	Asking for approval
SO-TC-339A-041124	0.0255	ND	9.04	Asking for approval

SO-TC-339B-041124	0.024	0.102	9.16	Asking for approval
SO-TC-339C-041124	0.027	2.78	9.08	Asking for approval

Thanks,
Kenny



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

16 April 2024

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
24D0236

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed by
Phillip Bates
Date: 2024.04.16
09:09:48 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 24D0236		Turn-around Requested: 3 Day		Date: 04/09/2024		 Analytical Resources, LLC Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6202 (fax)																																													
AR Client Company: PERC		Phone: 425-346-0921		Page: of																																															
Client Contact: Kenny King				No. of Coolers: Cooler Temps:																																															
Client Project Name: Superlon Plastics				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="8">Analysis Requested</th> <th colspan="2">Notes/Comments</th> </tr> <tr> <td rowspan="4" style="writing-mode: vertical-rl; transform: rotate(180deg);">TCLP 1311 As/Pb Only</td> <td rowspan="4" style="writing-mode: vertical-rl; transform: rotate(180deg);">pH 9045C</td> <td></td><td></td><td></td><td></td><td></td><td></td> <td></td><td></td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>				Analysis Requested								Notes/Comments		TCLP 1311 As/Pb Only	pH 9045C																																
Analysis Requested								Notes/Comments																																											
TCLP 1311 As/Pb Only	pH 9045C																																																		
Client Project #: SLON		Samplers: King																																																	
Sample ID	Date	Time	Matrix	No. Containers																																															
SO-TC-337A-040924	04/09/24	09:30	Soil	1	✓	✓																																													
SO-TC-337B-040924	04/09/24	09:45	Soil	1	✓	✓																																													
SO-TC-337C-040924	04/09/24	10:00	Soil	1	✓	✓																																													
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Grant Davis</i>		Relinquished by: (Signature)		Received by: (Signature)																																											
		Printed Name: Kenny King		Printed Name: Grant Davis		Printed Name:		Printed Name:																																											
		Company: PERC		Company: ARi		Company:		Company:																																											
		Date & Time: 4/9/24 16:42		Date & Time: 4/9/24 16:43		Date & Time:		Date & Time:																																											

Limits of Liability: Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2024 09:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-337A-040924	24D0236-01	Solid	09-Apr-2024 09:30	09-Apr-2024 16:43
SO-TC-337B-040924	24D0236-02	Solid	09-Apr-2024 09:45	09-Apr-2024 16:43
SO-TC-337C-040924	24D0236-03	Solid	09-Apr-2024 10:00	09-Apr-2024 16:43



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2024 09:05

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 24D0236

Sample receipt

Samples as listed on the preceding page were received 09-Apr-2024 16:43 under ARI work order 24D0236. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

COC No(s): NA

Assigned ARI Job No: 24D0236

Project Name: Superlon Plastics (SLON)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) _____

Time 16:43

20.7

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: J009708

Cooler Accepted by: Grant Davis

Date: 4/9/24

Time: 16:43

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

What kind of packing material was used? ...

Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other GP 4/9/24

YES NO

Was sufficient ice used (if appropriate)? _____

NA YES NO

How were bottles sealed in plastic bags? _____

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI _____

NA

Were the sample(s) split by ARI? NA

YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: GP

Date: 4/9/24

Time: 16:53

Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 24D0236

Cooler#: _____ Temperature(°C): 20.7

Sample ID	Bottle Count	Bottle Type
SO-TC-337A-040924	1	8oz Jar
SO-TC-337B-040924	1	↓
SO-TC-337C-040924	1	↓

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Completed by: [Signature] Date: 4/9/24 Time: 16:43

00070F

Cooler Temperature Compliance Form

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2024 09:05

SO-TC-337A-040924
24D0236-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/09/2024 09:30

Instrument: ICP3 Analyst: SH

Analyzed: 04/12/2024 15:26

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0236-01 A 01

Preparation Batch: BMD0293

Sample Size: 25 mL (wet)

Prepared: 04/11/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0430	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0105	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2024 09:05

SO-TC-337A-040924
24D0236-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/09/2024 09:30

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 04/12/2024 15:35

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0236-01 A

Preparation Batch: BMD0340

Sample Size: 20.2969 g (wet)

Prepared: 04/12/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.42	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2024 09:05

SO-TC-337B-040924
24D0236-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/09/2024 09:45

Instrument: ICP3 Analyst: SH

Analyzed: 04/12/2024 15:29

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0236-02 A 01

Preparation Batch: BMD0293

Sample Size: 25 mL (wet)

Prepared: 04/11/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0390	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2024 09:05

SO-TC-337B-040924
24D0236-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/09/2024 09:45

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 04/12/2024 15:35

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0236-02 A

Preparation Batch: BMD0340

Sample Size: 20.7873 g (wet)

Prepared: 04/12/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.67	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2024 09:05

SO-TC-337C-040924
24D0236-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/09/2024 10:00

Instrument: ICP3 Analyst: SH

Analyzed: 04/12/2024 15:32

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0236-03 A 01

Preparation Batch: BMD0293

Sample Size: 25 mL (wet)

Prepared: 04/11/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0255	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2024 09:05

SO-TC-337C-040924
24D0236-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/09/2024 10:00

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 04/12/2024 15:35

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0236-03 A

Preparation Batch: BMD0340

Sample Size: 20.2412 g (wet)

Prepared: 04/12/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.30	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2024 09:05

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BMD0293 - EPA 6010D

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BMD0293-BLK1)					Prepared: 11-Apr-2024 Analyzed: 12-Apr-2024 15:22					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2024 09:05

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BMD0340 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BMD0340-BS1)					Prepared: 12-Apr-2024 Analyzed: 12-Apr-2024 15:35				
pH	6.98	0.01	0.01	pH Units	7.00	99.7	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2024 09:05

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024
WADOE	WA Dept of Ecology	C558	06/30/2024
WA-DW	Ecology - Drinking Water	C558	06/30/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
16-Apr-2024 09:05

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

19 April 2024

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
24D0260

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed
by Phillip Bates
Date: 2024.04.19
15:42:43 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 24 D0260	Turn-around Requested: 3 Day
--	--

AR Client Company: PERC	Phone: 425-346-0921
-----------------------------------	-------------------------------

Client Contact: Kenny King

Client Project Name: Superlon Plastics
--

Client Project #: SLON	Samplers: King
----------------------------------	--------------------------

Sample ID	Date	Time	Matrix	No. Containers
SO-TC-338A-041024	04/10/24	13:00	Soil	1
SO-TC-338B-041024	04/10/24	13:15	Soil	1
SO-TC-338C-041024	04/10/24	13:30	Soil	1

Date: 4/10/2024

Page: 	of
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No. of Coolers: 	Cooler Temps:
---------------------	-------------------

Analysis Requested								Notes/Comments
TCLP 1311 As/Pb Only	pH 9045C							
✓	✓							
✓	✓							
✓	✓							

Comments/Special Instructions	Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>
	Printed Name: JEFF KING	Printed Name: Grant Davis	Printed Name:	Printed Name:
	Company: PERC	Company: AKI	Company:	Company:
	Date & Time: 4/10/24 16:35	Date & Time: 4/10/24 16:36	Date & Time:	Date & Time:



Analytical Resources, LLC
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6202 (fax)

Limits of Liability: Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-338A-041024	24D0260-01	Solid	10-Apr-2024 13:00	10-Apr-2024 16:36
SO-TC-338B-041024	24D0260-02	Solid	10-Apr-2024 13:15	10-Apr-2024 16:36
SO-TC-338C-041024	24D0260-03	Solid	10-Apr-2024 13:30	10-Apr-2024 16:36



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:41

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 24D0260

Sample receipt

Samples as listed on the preceding page were received 10-Apr-2024 16:36 under ARI work order 24D0260. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Cooler Receipt Form

ARI Client: Perc
COC No(s): NA
Assigned ARI Job No: 24D0260

Project Name: Superlan Plastics
Delivered by: Fed-Ex UPS Courier Hand-Delivered Other: _____
Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) _____
Time 16:36 286
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 5009709
Cooler Accepted by: [Signature] Date: 4/10/24 Time: 16:36

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: N/A
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

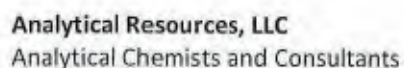
Samples Logged by: [Signature] Date: 07:34 Time: 4/11/24 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: Andrew Davis Date: 4/10/24 Time: 16:36



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:41

SO-TC-338A-041024
24D0260-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/10/2024 13:00

Instrument: ICP3 Analyst: SH

Analyzed: 04/18/2024 13:58

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0260-01 A 02

Preparation Batch: BMD0447

Sample Size: 25 mL (wet)

Prepared: 04/17/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0800	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:41

SO-TC-338A-041024
24D0260-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/10/2024 13:00

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 04/12/2024 15:35

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0260-01 A

Preparation Batch: BMD0340

Sample Size: 20.1792 g (wet)

Prepared: 04/12/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.46	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:41

SO-TC-338B-041024
24D0260-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/10/2024 13:15

Instrument: ICP3 Analyst: SH

Analyzed: 04/18/2024 14:18

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0260-02 A 02

Preparation Batch: BMD0447

Sample Size: 25 mL (wet)

Prepared: 04/17/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0630	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:41

SO-TC-338B-041024
24D0260-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/10/2024 13:15

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 04/12/2024 15:35

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0260-02 A

Preparation Batch: BMD0340

Sample Size: 20.0024 g (wet)

Prepared: 04/12/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.43	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:41

SO-TC-338C-041024
24D0260-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/10/2024 13:30

Instrument: ICP3 Analyst: SH

Analyzed: 04/18/2024 14:40

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0260-03 A 02

Preparation Batch: BMD0447

Sample Size: 25 mL (wet)

Prepared: 04/17/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0340	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:41

SO-TC-338C-041024
24D0260-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/10/2024 13:30

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 04/12/2024 15:35

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0260-03 A

Preparation Batch: BMD0340

Sample Size: 20.1925 g (wet)

Prepared: 04/12/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.48	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:41

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BMD0447 - EPA 6010D

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BMD0447-BLK1)					Prepared: 17-Apr-2024 Analyzed: 18-Apr-2024 13:51						
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BMD0447-DUP1)					Source: 24D0260-01 Prepared: 17-Apr-2024 Analyzed: 18-Apr-2024 14:01						
Arsenic	0.0825	0.0140	0.250	mg/L		0.0800			3.08	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BMD0447-MS1)					Source: 24D0260-01 Prepared: 17-Apr-2024 Analyzed: 18-Apr-2024 14:04						
Arsenic	4.34	0.0140	0.250	mg/L	4.00	0.0800	107	75-125			
Lead	3.99	0.0065	0.100	mg/L	4.00	ND	99.8	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:41

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BMD0340 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BMD0340-BS1)					Prepared: 12-Apr-2024 Analyzed: 12-Apr-2024 15:35				
pH	6.98	0.01	0.01	pH Units	7.00	99.7	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:41

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024
WADOE	WA Dept of Ecology	C558	06/30/2024
WA-DW	Ecology - Drinking Water	C558	06/30/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:41

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

19 April 2024

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
24D0293

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed by
Phillip Bates
Date: 2024.04.19
15:47:48 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 24D0293		Turn-around Requested: 3 Day			Date: 4/11/2024		 Analytical Resources, LLC Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6202 (fax)							
AR Client Company: PERC		Phone: 425-346-0921			Page: of									
Client Contact: Kenny King					No. of Coolers: Cooler Temps:									
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments		
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-339A-041124	04/11/24	14:15	Soil	1	✓	✓								
SO-TC-339B-041124	04/11/24	14:30	Soil	1	✓	✓								
SO-TC-339C-041124	04/11/24	14:45	Soil	1	✓	✓								
Comments/Special Instructions		Relinquished by:			Received by:			Relinquished by:			Received by:			
		(Signature) <i>Kenny King</i>			(Signature) <i>Grant Davis</i>			(Signature)			(Signature)			
		Printed Name:			Printed Name:			Printed Name:			Printed Name:			
		Kenny King			Grant Davis									
Company:		Company:			Company:			Company:			Company:			
		PERC			ARi									
Date & Time:		Date & Time:			Date & Time:			Date & Time:			Date & Time:			
		4/11/2024 16:43			4/11/24 16:44									

Limits of Liability: Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-339A-041124	24D0293-01	Solid	11-Apr-2024 14:15	11-Apr-2024 16:44
SO-TC-339B-041124	24D0293-02	Solid	11-Apr-2024 14:30	11-Apr-2024 16:44
SO-TC-339C-041124	24D0293-03	Solid	11-Apr-2024 14:45	11-Apr-2024 16:44



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:46

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 24D0293

Sample receipt

Samples as listed on the preceding page were received 11-Apr-2024 16:44 under ARI work order 24D0293. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 24D0293

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 16:44 20.3

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 5009708

Cooler Accepted by: [Signature] Date: 4/11/24 Time: 16:44

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: N/A
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: GD Date: 4/12/24 Time: 07:43 Labels checked by:

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

PERC

ARI Work Order: 24D0293

Cooler#: _____ Temperature(°C): 20-3

Sample ID	Bottle Count	Bottle Type

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Completed by: [Signature]

Date: 4/11/24

Time: 16:44

00070F

Cooler Temperature Compliance Form

Version 001



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:46

SO-TC-339A-041124
24D0293-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/11/2024 14:15

Instrument: ICP3 Analyst: SH

Analyzed: 04/18/2024 14:43

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0293-01 A 02

Preparation Batch: BMD0447

Sample Size: 25 mL (wet)

Prepared: 04/17/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0255	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:46

SO-TC-339A-041124
24D0293-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/11/2024 14:15

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 04/12/2024 15:35

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0293-01 A

Preparation Batch: BMD0340

Sample Size: 20.3814 g (wet)

Prepared: 04/12/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.04	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:46

SO-TC-339B-041124
24D0293-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/11/2024 14:30

Instrument: ICP3 Analyst: SH

Analyzed: 04/18/2024 14:46

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0293-02 A 02

Preparation Batch: BMD0447

Sample Size: 25 mL (wet)

Prepared: 04/17/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0240	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.102	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:46

SO-TC-339B-041124
24D0293-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/11/2024 14:30

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 04/12/2024 15:35

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0293-02 A

Preparation Batch: BMD0340

Sample Size: 20.7204 g (wet)

Prepared: 04/12/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.16	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:46

SO-TC-339C-041124
24D0293-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/11/2024 14:45

Instrument: ICP3 Analyst: SH

Analyzed: 04/18/2024 14:49

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0293-03 A 02

Preparation Batch: BMD0447

Sample Size: 25 mL (wet)

Prepared: 04/17/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0270	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	2.78	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:46

SO-TC-339C-041124
24D0293-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/11/2024 14:45

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 04/12/2024 15:35

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0293-03 A

Preparation Batch: BMD0340

Sample Size: 20.0707 g (wet)

Prepared: 04/12/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.08	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:46

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BMD0447 - EPA 6010D

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BMD0447-BLK1)						Prepared: 17-Apr-2024 Analyzed: 18-Apr-2024 13:51				
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:46

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BMD0340 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BMD0340-BS1)						Prepared: 12-Apr-2024 Analyzed: 12-Apr-2024 15:35					
pH	6.98	0.01	0.01	pH Units	7.00		99.7	99.2-100.8			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:46

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024
WADOE	WA Dept of Ecology	C558	06/30/2024
WA-DW	Ecology - Drinking Water	C558	06/30/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
19-Apr-2024 15:46

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: One data package for your consideration

From Keith Johnston <KJohnston@tpchd.org>

Date Fri 4/26/2024 9:26 AM

To kking perc-nw.com <kking@perc-nw.com>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc JEFFREY KING <jking@percnw.com>

Hi Kenny,

We agree with your assessment that these soils are non-hazardous and appropriate for disposal under WDA2793R.

Thank you,

Keith Johnston, RS (he/him)

EHSS Waste EH
(253) 405-8604 c

From: kking perc-nw.com <kking@perc-nw.com>

Sent: Friday, April 26, 2024 8:57 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: JEFFREY KING <jking@percnw.com>

Subject: One data package for your consideration

CAUTION: External Email - Verify contents

Hi Keith,

The attached data, shown and summarized below, are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 21 cubic yards of soil. We are asking for permission to dispose of this soil at the LRI landfill under permit number WDA 2793R.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-340A-041624	0.0995	0.0115	9.56	Asking for approval
SO-TC-340B-041624	0.094	0.0245	9.5	Asking for approval
SO-TC-340C-041624	0.088	2.41	9.46	Asking for approval

Thanks,
Kenny



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

22 April 2024

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
24D0361

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed by
Phillip Bates
Date: 2024.04.22
16:48:31 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

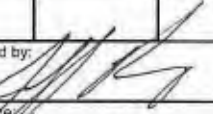
Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 24D0361		Turn-around Requested: 3 Day		Date: 4/16/2024		 Analytical Resources, LLC Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6202 (fax)		
AR Client Company: PERC		Phone: 425-346-0921		Page: of				
Client Contact: Kenny King				No. of Coolers: Cooler Temps:				
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only	pH 9045C			
Sample ID	Date	Time	Matrix			No. Containers		
SO-TC-340A-041624	04/16/24	07:15	Soil	1	✓	✓		
SO-TC-340B-041624	04/16/24	07:30	Soil	1	✓	✓		
SO-TC-340C-041624	04/16/24	07:45	Soil	1	✓	✓		
Comments/Special Instructions		Relinquished by: 		Received by: 		Relinquished by:		
		(Signature)		(Signature)		(Signature)		
		Printed Name: JEFF KING		Printed Name: Grant Davis		Printed Name:		
		Company: PERC		Company: AR		Company:		
		Date & Time: 4/16/24 11:17a		Date & Time: 4/16/24		Date & Time:		

Limits of Liability: Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Apr-2024 16:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-340A-041624	24D0361-01	Solid	16-Apr-2024 07:15	16-Apr-2024 11:19
SO-TC-340B-041624	24D0361-02	Solid	16-Apr-2024 07:30	16-Apr-2024 11:19
SO-TC-340C-041624	24D0361-03	Solid	16-Apr-2024 07:45	16-Apr-2024 11:19



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Apr-2024 16:47

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 24D0361

Sample receipt

Samples as listed on the preceding page were received 16-Apr-2024 11:19 under ARI work order 24D0361. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC King
COC No(s): NA
Assigned ARI Job No: 24D0361

Project Name: Superlon Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA
Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES YES NO
Were custody papers properly filled out (ink, signed, etc.) YES YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 11:19 17.1
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 3009708

Cooler Accepted by: [Signature] Date: 4/16/24 Time: 11:19

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: N/A
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split NA YES Date/Time: Equipment: Split by:

Samples Logged by: [Signature] Date: 4/16/24 Time: 12:20 Labels checked by:

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Cooler Temperature Compliance Form

ARI Work Order: 24 D0361

Cooler#: _____ Temperature(°C): 17.1

Sample ID	Bottle Count	Bottle Type
<u>King Superlan Plastics</u>	<u>3</u>	<u>16 oz Jar</u>

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type

Completed by: [Signature]

Date: 4/16/24

Time: _____

00070F

Cooler Temperature Compliance Form

Version 001



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Apr-2024 16:47

SO-TC-340A-041624
24D0361-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/16/2024 07:15

Instrument: ICP3 Analyst: SH

Analyzed: 04/18/2024 14:52

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0361-01 A 02

Preparation Batch: BMD0447

Sample Size: 25 mL (wet)

Prepared: 04/17/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0995	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0115	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Apr-2024 16:47

SO-TC-340A-041624
24D0361-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/16/2024 07:15

Instrument: Accumet AB150 Analyst: CDE

Analyzed: 04/20/2024 13:49

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0361-01 A

Preparation Batch: BMD0546

Sample Size: 20.38 g (wet)

Prepared: 04/20/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.56	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Apr-2024 16:47

SO-TC-340B-041624
24D0361-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/16/2024 07:30

Instrument: ICP3 Analyst: SH

Analyzed: 04/18/2024 14:55

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0361-02 A 02

Preparation Batch: BMD0447

Sample Size: 25 mL (wet)

Prepared: 04/17/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0940	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0245	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Apr-2024 16:47

SO-TC-340B-041624
24D0361-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/16/2024 07:30

Instrument: Accumet AB150 Analyst: CDE

Analyzed: 04/20/2024 13:49

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0361-02 A

Preparation Batch: BMD0546

Sample Size: 20.38 g (wet)

Prepared: 04/20/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.50	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Apr-2024 16:47

SO-TC-340C-041624
24D0361-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/16/2024 07:45

Instrument: ICP3 Analyst: SH

Analyzed: 04/18/2024 14:58

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0361-03 A 02

Preparation Batch: BMD0447

Sample Size: 25 mL (wet)

Prepared: 04/17/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0880	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	2.41	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Apr-2024 16:47

SO-TC-340C-041624
24D0361-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/16/2024 07:45

Instrument: Accumet AB150 Analyst: CDE

Analyzed: 04/20/2024 13:49

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0361-03 A

Preparation Batch: BMD0546

Sample Size: 20.4 g (wet)

Prepared: 04/20/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.46	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Apr-2024 16:47

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BMD0447 - EPA 6010D

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BMD0447-BLK1)					Prepared: 17-Apr-2024 Analyzed: 18-Apr-2024 13:51					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Apr-2024 16:47

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BMD0546 - EPA 9045D

Instrument: Accumet AB150 Analyst: CDE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BMD0546-BS1)						Prepared: 20-Apr-2024 Analyzed: 20-Apr-2024 13:49					
pH	7.01	0.01	0.01	pH Units	7.00	100	99.2-100.8				



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Apr-2024 16:47

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024
WADOE	WA Dept of Ecology	C558	06/30/2024
WA-DW	Ecology - Drinking Water	C558	06/30/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
22-Apr-2024 16:47

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Outlook

RE: Two data packages for your consideration

From Robbie Grieco <RGrieco@tpchd.org>
Date Tue 5/7/2024 12:36 PM
To kking perc-nw.com <kking@perc-nw.com>
Cc EH SolidWaste <EHSolidWaste@tpchd.org>; JEFFREY KING <jking@perc-nw.com>

Kenny,

Thanks for the clarification.

Best Regards,

Robbie Grieco

Environmental Health Specialist I - Waste Management
Environmental Health Department
(253) 649-1892 o • rgrieco@tpchd.org • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: kking perc-nw.com <kking@perc-nw.com>
Sent: Tuesday, May 7, 2024 7:17 AM
To: Robbie Grieco <RGrieco@tpchd.org>
Cc: EH SolidWaste <EHSolidWaste@tpchd.org>; JEFFREY KING <jking@perc-nw.com>
Subject: Re: Two data packages for your consideration

CAUTION: External Email - Verify contents

Thank you Robbie! To answer your question, we ended marking sample SO-TC-341C-041724 for retreatment because we have an internal policy onsite to retreat any sample that comes back more than 4.75. this 0.25 difference is used as an additional safety margin that we have built into our process to account for any degrees of uncertainty.

Thanks,
Kenny

From: Robbie Grieco <RGrieco@tpchd.org>
Sent: Monday, May 6, 2024 3:56 PM
To: kking perc-nw.com <kking@perc-nw.com>
Cc: EH SolidWaste <EHSolidWaste@tpchd.org>
Subject: RE: Two data packages for your consideration

Those four samples look good for disposal. I am curious why Sample SO-TC-341C-041724 is marked for re-treatment when the Lead TCLP number is less than 5.

Best Regards,

Robbie Grieco

Environmental Health Specialist I - Waste Management
Environmental Health Department
(253) 649-1892 o • rgrieco@tpchd.org • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: kking perc-nw.com <kking@perc-nw.com>

Sent: Friday, May 3, 2024 9:18 AM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: JEFFREY KING <jking@perc-nw.com>

Subject: Two data packages for your consideration

CAUTION: External Email - Verify contents

Keith:

Attached are 2 data packages for your review and approval. Each of the samples are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 21 cubic yards of soil. **To be clear we are NOT asking for approval for samples SO-TC-341C-041724 and SO-TC-343C-042224.** The soil that these samples represent (and the soil adjacent to it (2') in the stockpile) are being re-treated to lower leachability. We are only asking for permission to dispose of the other soil samples at the LRI landfill under permit number WDA 2793R. The following table presents the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-341A-041724	0.09	0.4	8.99	Asking for approval
SO-TC-341B-041724	0.056	2.55	8.71	Asking for approval
SO-TC-341C-041724	0.07	4.95	8.94	Not asking for approval - Soil will be retreated
SO-TC-343A-042224	0.0445	ND	9.38	Asking for approval
SO-TC-343B-042224	0.027	0.0105	9.2	Asking for approval
SO-TC-343C-042224	0.058	18.3	9.41	Not asking for approval - Soil will be retreated

Thanks,
Kenny



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

27 April 2024

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
24D0413

Associated SDG ID(s)
N/A

Shelly
Fishel

Digitally signed by
Shelly Fishel
Date: 2024.04.27
15:11:17 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel For Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 2400413		Turn-around Requested: 3 Day		Date: 04/17/2024		 Analytical Resources, LLC Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6202 (fax)																									
AR Client Company: PERC		Phone: 425-346-0921		Page: of																											
Client Contact: Kenny King				No. of Coolers: Cooler Temps:																											
Client Project Name: Superlon Plastics				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="8">Analysis Requested</th> <th>Notes/Comments</th> </tr> <tr> <td rowspan="2" style="writing-mode: vertical-rl; transform: rotate(180deg);">TCLP 1311 As/Pb Only</td> <td rowspan="2" style="writing-mode: vertical-rl; transform: rotate(180deg);">pH 9045C</td> <td></td><td></td><td></td><td></td><td></td><td></td> <td rowspan="2"></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>				Analysis Requested								Notes/Comments	TCLP 1311 As/Pb Only	pH 9045C													
Analysis Requested								Notes/Comments																							
TCLP 1311 As/Pb Only	pH 9045C																														
Client Project #: SLON		Samplers: King																													
Sample ID	Date	Time	Matrix	No. Containers																											
SO-TC-341A-041724	04/17/24	09:45	Soil	1	✓	✓																									
SO-TC-341B-041724	04/17/24	10:00	Soil	1	✓	✓																									
SO-TC-341C-041724	04/17/24	10:15	Soil	1	✓	✓																									
Comments/Special Instructions		Relinquished by:		Received by:		Relinquished by:		Received by:																							
		(Signature) <i>Kenny King</i>		(Signature) <i>Matthew Poon</i>		(Signature)		(Signature)																							
		Printed Name: Kenny King		Printed Name: <i>Matthew Poon</i>		Printed Name:		Printed Name:																							
		Company: PERC		Company: <i>AR LLC</i>		Company:		Company:																							
		Date & Time: 4/17/2024 16:16		Date & Time: 04/17/24 16:16		Date & Time:		Date & Time:																							

Limits of Liability: Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2024 15:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-341A-041724	24D0413-01	Solid	17-Apr-2024 09:45	17-Apr-2024 16:16
SO-TC-341B-041724	24D0413-02	Solid	17-Apr-2024 15:00	17-Apr-2024 16:16
SO-TC-341C-041724	24D0413-03	Solid	17-Apr-2024 10:15	17-Apr-2024 16:16



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2024 15:09

Work Order Case Narrative

Client: Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Work Order: 24D0413

Sample receipt

One sample as listed on the preceding page was received April 17, 2024 under ARI work order 24D0413. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The the duplicate (DUP) relative percent difference (RPD) and matrix spike (MS) percent recoveries were within control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Phase

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 24D0413

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES

NO

Were custody papers included with the cooler? _____

YES

NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES

NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) _____

Time 1616

22.8°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: Jacobs

Cooler Accepted by: MD

Date: 04/17/24

Time: 1616

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES

NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA

YES

NO

How were bottles sealed in plastic bags? _____

Individually

Grouped

Not

Did all bottles arrive in good condition (unbroken)? _____

YES

NO

Were all bottle labels complete and legible? _____

YES

NO

Did the number of containers listed on COC match with the number of containers received? _____

YES

NO

Did all bottle labels and tags agree with custody papers? _____

YES

NO

Were all bottles used correct for the requested analyses? _____

YES

NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA

YES

NO

Were all VOC vials free of air bubbles? _____

NA

YES

NO

Was sufficient amount of sample sent in each bottle? _____

YES

NO

Date VOC Trip Blank was made at ARI: _____

NA

Were the sample(s) split by ARI? NA

YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: PIA for MD

Date: 4/18/24

Time: 7:53

Labels checked by: _____

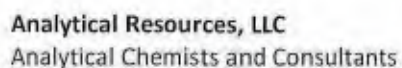
PIA ** Notify Project Manager of discrepancies or concerns **
4/18/24

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

Completed by: mps Date: 04/17/24 Time: 1416
00070F Cooler Temperature Compliance Form Vers



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2024 15:09

SO-TC-341A-041724

24D0413-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/17/2024 09:45

Instrument: ICP3 Analyst: SH

Analyzed: 04/25/2024 13:05

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0413-01 A 02

Preparation Batch: BMD0607

Sample Size: 25 mL (wet)

Prepared: 04/23/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0900	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.400	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2024 15:09

SO-TC-341A-041724
24D0413-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/17/2024 09:45

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 04/23/2024 13:28

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0413-01 A

Preparation Batch: BMD0585

Sample Size: 20.7917 g (wet)

Prepared: 04/22/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.99	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2024 15:09

SO-TC-341B-041724
24D0413-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/17/2024 15:00

Instrument: ICP3 Analyst: SH

Analyzed: 04/25/2024 13:49

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0413-02 A 02

Preparation Batch: BMD0607

Sample Size: 25 mL (wet)

Prepared: 04/23/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0560	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	2.55	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2024 15:09

SO-TC-341B-041724
24D0413-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/17/2024 15:00

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 04/23/2024 13:28

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0413-02 A

Preparation Batch: BMD0585

Sample Size: 20.3028 g (wet)

Prepared: 04/22/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.71	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2024 15:09

SO-TC-341C-041724
24D0413-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/17/2024 10:15

Instrument: ICP3 Analyst: SH

Analyzed: 04/25/2024 13:52

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0413-03 A 02

Preparation Batch: BMD0607

Sample Size: 25 mL (wet)

Prepared: 04/23/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0700	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	4.95	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2024 15:09

SO-TC-341C-041724
24D0413-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/17/2024 10:15

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 04/23/2024 13:28

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0413-03 A

Preparation Batch: BMD0585

Sample Size: 20.0748 g (wet)

Prepared: 04/22/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.94	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2024 15:09

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BMD0607 - EPA 6010D

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BMD0607-BLK1)						Prepared: 23-Apr-2024 Analyzed: 25-Apr-2024 13:02					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BMD0607-DUP1)						Source: 24D0413-01 Prepared: 23-Apr-2024 Analyzed: 25-Apr-2024 13:09					
Arsenic	0.0860	0.0140	0.250	mg/L		0.0900			4.55	20	J
Lead	0.401	0.0065	0.100	mg/L		0.400			0.38	20	
Matrix Spike (BMD0607-MS1)						Source: 24D0413-01 Prepared: 23-Apr-2024 Analyzed: 25-Apr-2024 13:12					
Arsenic	4.32	0.0140	0.250	mg/L	4.00	0.0900	106	75-125			
Lead	4.36	0.0065	0.100	mg/L	4.00	0.400	99.1	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2024 15:09

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BMD0585 - EPA 9045D

Instrument: Accumet AB150 Analyst: LERB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BMD0585-BS1)						Prepared: 22-Apr-2024 Analyzed: 23-Apr-2024 13:28					
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8				



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2024 15:09

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024
WADOE	WA Dept of Ecology	C558	06/30/2024
WA-DW	Ecology - Drinking Water	C558	06/30/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
27-Apr-2024 15:09

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

30 April 2024

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
24D0496

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed
by Phillip Bates
Date: 2024.04.30
09:02:32 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 2400496		Turn-around Requested: 3 Day			Date: 4/22/2024		
AR Client Company: PERC		Phone: 425-346-0921			Page: of		
Client Contact: Kenny King					No. of Cooler Coolers: Temps:		
Client Project Name: Superlon Plastics					Analysis Requested		
Client Project #: SLON		Samplers: King			Notes/Comments		
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C	
SO-TC-343A-042224	04/22/24	09:00	Soil	1	✓	✓	
SO-TC-343B-042224	04/22/24	09:15	Soil	1	✓	✓	
SO-TC-343C-042224	04/22/24	09:30	Soil	1	✓	✓	
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i> Printed Name: Kenny King Company: PERC Date & Time: 4/22/2024 16:15		Received by: (Signature) <i>R. Leese</i> Printed Name: R. Leese Company: ARI Date & Time: 4-22-24 16:16		Relinquished by: (Signature) Printed Name: Company: Date & Time:	



Analytical Resources, LLC
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6202 (fax)

Limits of Liability: Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2024 09:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-343A-042224	24D0496-01	Solid	22-Apr-2024 09:00	22-Apr-2024 16:16
SO-TC-343B-042224	24D0496-02	Solid	22-Apr-2024 09:15	22-Apr-2024 16:16
SO-TC-343C-042224	24D0496-03	Solid	22-Apr-2024 09:30	22-Apr-2024 16:16



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2024 09:00

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 24D0496

Sample receipt

The sample(s) as listed on the preceding page were received 22-Apr-2024 16:16 under ARI work order 24D0496. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Cooler Receipt Form

ARI Client: Perc
COC No(s): _____ NA
Assigned ARI Job No: 24D0496

Project Name: Sion
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 22.2 16:16 04/22/2024

22.2°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: J009708

Cooler Accepted by: RL

Date: 4-22-24

Time: 16:16

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: None 04/22/2024

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

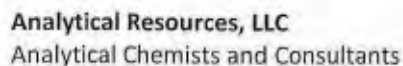
Samples Logged by: VO Date: 04/22/2024 Time: 16:44 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: RL Date: 4-22-24 Time: 16:16
00070F Cooler Temperature Compliance Form Vers



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2024 09:00

SO-TC-343A-042224

24D0496-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/22/2024 09:00

Instrument: ICP3 Analyst: SH

Analyzed: 04/29/2024 13:33

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0496-01 A 02

Preparation Batch: BMD0669

Sample Size: 25 mL (wet)

Prepared: 04/25/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0445	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2024 09:00

SO-TC-343A-042224
24D0496-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/22/2024 09:00

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 04/24/2024 16:05

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0496-01 A

Preparation Batch: BMD0653

Sample Size: 20.6816 g (wet)

Prepared: 04/24/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.38	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2024 09:00

SO-TC-343B-042224
24D0496-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/22/2024 09:15

Instrument: ICP3 Analyst: SH

Analyzed: 04/29/2024 13:43

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0496-02 A 02

Preparation Batch: BMD0669

Sample Size: 25 mL (wet)

Prepared: 04/25/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0270	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0105	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2024 09:00

SO-TC-343B-042224
24D0496-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/22/2024 09:15

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 04/24/2024 16:05

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0496-02 A

Preparation Batch: BMD0653

Sample Size: 20.1783 g (wet)

Prepared: 04/24/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.20	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2024 09:00

SO-TC-343C-042224
24D0496-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/22/2024 09:30

Instrument: ICP3 Analyst: SH

Analyzed: 04/29/2024 13:46

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0496-03 A 02

Preparation Batch: BMD0669

Sample Size: 25 mL (wet)

Prepared: 04/25/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0580	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	18.3	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2024 09:00

SO-TC-343C-042224
24D0496-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/22/2024 09:30

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 04/24/2024 16:05

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0496-03 A

Preparation Batch: BMD0653

Sample Size: 20.5833 g (wet)

Prepared: 04/24/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.41	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2024 09:00

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BMD0669 - EPA 6010D

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BMD0669-BLK1)					Prepared: 25-Apr-2024 Analyzed: 29-Apr-2024 13:29						
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BMD0669-DUP1)					Source: 24D0496-01 Prepared: 25-Apr-2024 Analyzed: 29-Apr-2024 13:37						
Arsenic	0.0395	0.0140	0.250	mg/L		0.0445			11.90	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BMD0669-MS1)					Source: 24D0496-01 Prepared: 25-Apr-2024 Analyzed: 29-Apr-2024 13:40						
Arsenic	4.27	0.0140	0.250	mg/L	4.00	0.0445	106	75-125			
Lead	3.97	0.0065	0.100	mg/L	4.00	ND	99.2	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2024 09:00

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BMD0653 - EPA 9045D

Instrument: Accumet AB150 Analyst: LERB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BMD0653-BS1)					Prepared: 24-Apr-2024 Analyzed: 24-Apr-2024 16:05					
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BMD0653-DUP1)					Source: 24D0496-01 Prepared: 24-Apr-2024 Analyzed: 24-Apr-2024 16:05					
pH	9.40	0.01	0.01	pH Units	9.38			0.21	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2024 09:00

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024
WADOE	WA Dept of Ecology	C558	06/30/2024
WA-DW	Ecology - Drinking Water	C558	06/30/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
30-Apr-2024 09:00

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



RE: Four data packages for your consideration

From Robbie Grieco <RGrieco@tpchd.org>

Date Tue 5/7/2024 1:27 PM

To kking perc-nw.com <kking@perc-nw.com>

Cc JEFFREY KING <jking@perc-nw.com>; Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Looks good. Thank Kenny.

Best Regards,

Robbie Grieco

Environmental Health Specialist I - Waste Management

Environmental Health Department

(253) 649-1892 o • rgrieco@tpchd.org • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: kking perc-nw.com <kking@perc-nw.com>

Sent: Tuesday, May 7, 2024 1:01 PM

To: Robbie Grieco <RGrieco@tpchd.org>

Cc: JEFFREY KING <jking@perc-nw.com>; Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Subject: Four data packages for your consideration

CAUTION: External Email - Verify contents

Hi Robbie,

The attached data, shown and summarized below, are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 21 cubic yards of soil. We are asking for permission to dispose of this soil at the LRI landfill under permit number WDA 2793R.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-344A-042524	0.284	0.741	9.9	Asking for approval
SO-TC-344B-042524	0.25	0.128	9.53	Asking for approval
SO-TC-344C-042524	0.074	0.0145	9.1	Asking for approval
SO-TC-445A-042924	0.093	0.008	9.4	Asking for approval
SO-TC-445B-042924	0.124	0.016	9.36	Asking for approval
SO-TC-445C-042924	0.0835	0.0105	9.29	Asking for approval
SO-TC-346A-043024	0.111	ND	9.4	Asking for approval
SO-TC-346B-043024	0.0705	ND	9.64	Asking for approval
SO-TC-346C-043024	0.029	ND	9.76	Asking for approval
SO-TC-347A-043024	0.0325	ND	9.53	Asking for approval

SO-TC-347B-043024	0.0375	ND	9.53	Asking for approval
SO-TC-347C-043024	0.036	ND	9.57	Asking for approval

Please do not hesitate to ask should you have any questions.

Thanks,
Kenny



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

03 May 2024

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
24D0591

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed
by Phillip Bates
Date: 2024.05.03
14:55:57 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 2400591		Turn-around Requested: 3 Day		Date: 4/25/2024		 Analytical Resources, LLC Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6202 (fax)					
AR Client Company: PERC		Phone: 425-346-0921		Page: of							
Client Contact: Kenny King				No. of Coolers: Cooler Temps:							
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments			
Client Project #: SLON		Samplers: King		TCLP 1311 As/Pb Only		pH 9045C					
Sample ID	Date	Time	Matrix	No. Containers							
SO-TC-344A-042524	04/25/24	09:00	Soil	1	✓	✓					
SO-TC-344B-042524	04/25/24	09:15	Soil	1	✓	✓					
SO-TC-344C-042524	04/25/24	09:30	Soil	1	✓	✓					
Comments/Special Instructions				Relinquished by: (Signature) <i>Kenny King</i>		Received by: (Signature) <i>Gwen Davis</i>		Relinquished by: (Signature)		Received by: (Signature)	
				Printed Name: Kenny King		Printed Name: Gwen Davis		Printed Name:		Printed Name:	
				Company: PERC		Company: AR		Company:		Company:	
				Date & Time: 4/25/2024 15:54		Date & Time: 4/25/24 1555		Date & Time:		Date & Time:	

Limits of Liability: Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-May-2024 14:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-344A-042524	24D0591-01	Solid	25-Apr-2024 09:00	25-Apr-2024 15:55
SO-TC-344B-042524	24D0591-02	Solid	25-Apr-2024 09:15	25-Apr-2024 15:55
SO-TC-344C-042524	24D0591-03	Solid	25-Apr-2024 09:30	25-Apr-2024 15:55



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-May-2024 14:54

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 24D0591

Sample receipt

The sample(s) as listed on the preceding page were received 25-Apr-2024 15:55 under ARI work order 24D0591. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



WORK ORDER

24D0591

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: PERC-Pacific Environmental and Redevelopment

Project Manager: Phillip Bates

Project: TCLP

Project Number: TCLP

Report To:

PERC-Pacific Environmental and Redevelopment Corp

Kenny King

8424 E Meadow Lake Drive

Snohomish, WA 98290

Phone: (425) 346-0921

Fax:

Invoice To:

PERC-Pacific Environmental and Redevelopment Corp

Kenny King

8424 E Meadow Lake Drive

Snohomish, WA 98290

Phone : (425) 346-0921

Fax:

Date Due: 01-May-2024 18:00 (3 day TAT)

Received By: Grant Davis

Date Received: 25-Apr-2024 15:55

Logged In By: Robert Leeseemann

Date Logged In: 26-Apr-2024 07:43

Samples Received at: 17.1°C

Intact, properly signed and dated custody seals attached to outside of coolers.....No

Custody papers properly filled out (in, signed, analyses requested, etc).....Yes

Was sufficient ice used (if appropriate).....No

All bottles arrived in good condition (unbroken).....Yes

Number of containers listed on COC match number received.....Yes

Correct bottles used for the requested analyses.....Yes

Analyses/bottles require preservation (attach preservation sheet excluding VOC).....No

Sample split at ARL.....No

Custody papers included with the cooler.....Yes

Was a temperature blank included in the cooler.....No

All bottles sealed in individual plastic bags.....No

All bottle labels complete and legible.....Yes

Bottle labels and tags agree with COC.....Yes

All VOC vials free of air bubbles.....No

Sufficient amount of sample sent in each bottle.....Yes

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------



WORK ORDER

24D0591

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: PERC-Pacific Environmental and Redevelopment

Project Manager: Phillip Bates

Project: TCLP

Project Number: TCLP

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

24D0591-01 SO-TC-344A-042524 [Solid] Sampled 25-Apr-2024 09:00
(GMT-08:00) Pacific Time (US & Canada)

A - Glass W/M, Clear, 8 oz

pH, EPA 9045D, Solid	01-May-2024 15:00	3	09-May-2024 23:59	
TCLP 1311	01-May-2024 15:00	3	23-May-2024 23:59	
TCLP 6010C - As	01-May-2024 15:00	3	22-Oct-2024 23:59	
TCLP 6010C - Pb	01-May-2024 15:00	3	22-Oct-2024 23:59	

24D0591-02 SO-TC-344B-042524 [Solid] Sampled 25-Apr-2024 09:15
(GMT-08:00) Pacific Time (US & Canada)

A - Glass W/M, Clear, 8 oz

pH, EPA 9045D, Solid	01-May-2024 15:00	3	09-May-2024 23:59	
TCLP 1311	01-May-2024 15:00	3	23-May-2024 23:59	
TCLP 6010C - As	01-May-2024 15:00	3	22-Oct-2024 23:59	
TCLP 6010C - Pb	01-May-2024 15:00	3	22-Oct-2024 23:59	

24D0591-03 SO-TC-344C-042524 [Solid] Sampled 25-Apr-2024 09:30
(GMT-08:00) Pacific Time (US & Canada)

A - Glass W/M, Clear, 8 oz

pH, EPA 9045D, Solid	01-May-2024 15:00	3	09-May-2024 23:59	
TCLP 1311	01-May-2024 15:00	3	23-May-2024 23:59	
TCLP 6010C - As	01-May-2024 15:00	3	22-Oct-2024 23:59	
TCLP 6010C - Pb	01-May-2024 15:00	3	22-Oct-2024 23:59	

Reviewed By

Date

Page 2 of 2



Cooler Receipt Form

ARI Client: King EPERC3

Project Name: Superlon Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 24D0591

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?

YES NO

Were custody papers included with the cooler?

YES NO

Were custody papers properly filled out (ink, signed, etc.)

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1555

17.1

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: J009708

Cooler Accepted by: [Signature]

Date: 4/25/24

Time: 1555

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?

YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)?

NA YES NO

How were bottles sealed in plastic bags?

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)?

YES NO

Were all bottle labels complete and legible?

YES NO

Did the number of containers listed on COC match with the number of containers received?

YES NO

Did all bottle labels and tags agree with custody papers?

YES NO

Were all bottles used correct for the requested analyses?

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA YES NO

Were all VOC vials free of air bubbles?

NA YES NO

Was sufficient amount of sample sent in each bottle?

YES NO

Date VOC Trip Blank was made at ARI:

NA

Were the sample(s) split by ARI? NA YES

Date/Time: 4-RL

Equipment: _____

Split by: _____

Samples Logged by: RL

Date: 4-26-24

Time: 7:49

Labels checked by: _____

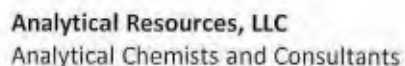
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Cooler Temperature Compliance Form

Completed by: Chris Dan Date: 4/25/24 Time: 1555
00070F Cooler Temperature Compliance Form Vers



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-May-2024 14:54

SO-TC-344A-042524
24D0591-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/25/2024 09:00

Instrument: ICP3 Analyst: SH

Analyzed: 05/01/2024 16:40

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0591-01 A 02

Preparation Batch: BMD0759

Sample Size: 25 mL (wet)

Prepared: 04/28/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.284	mg/L	
Lead	7439-92-1	5	0.0065	0.100	0.741	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-May-2024 14:54

SO-TC-344A-042524
24D0591-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/25/2024 09:00

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/02/2024 14:40

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0591-01 A 02

Preparation Batch: BME0032

Sample Size: 20.52 g (wet)

Prepared: 05/01/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.90	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-May-2024 14:54

SO-TC-344B-042524
24D0591-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/25/2024 09:15

Instrument: ICP3 Analyst: SH

Analyzed: 05/01/2024 16:43

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0591-02 A 02

Preparation Batch: BMD0759

Sample Size: 25 mL (wet)

Prepared: 04/28/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.250	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.128	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-May-2024 14:54

SO-TC-344B-042524
24D0591-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/25/2024 09:15

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/02/2024 14:40

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0591-02 A

Preparation Batch: BME0032

Sample Size: 20.9 g (wet)

Prepared: 05/01/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.53	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-May-2024 14:54

SO-TC-344C-042524
24D0591-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/25/2024 09:30

Instrument: ICP3 Analyst: SH

Analyzed: 05/01/2024 16:46

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0591-03 A 02

Preparation Batch: BMD0759

Sample Size: 25 mL (wet)

Prepared: 04/28/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0740	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0145	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-May-2024 14:54

SO-TC-344C-042524
24D0591-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/25/2024 09:30

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/02/2024 14:40

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0591-03 A

Preparation Batch: BME0032

Sample Size: 20.13 g (wet)

Prepared: 05/01/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.10	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-May-2024 14:54

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BMD0759 - EPA 6010D

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BMD0759-BLK1)					Prepared: 28-Apr-2024 Analyzed: 01-May-2024 16:37					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-May-2024 14:54

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BME0032 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BME0032-BS1)					Prepared: 01-May-2024 Analyzed: 02-May-2024 14:40					
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BME0032-DUP1)					Source: 24D0591-01 Prepared: 01-May-2024 Analyzed: 02-May-2024 14:40					
pH	9.87	0.01	0.01	pH Units	9.90			0.30	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-May-2024 14:54

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024
WADOE	WA Dept of Ecology	C558	06/30/2024
WA-DW	Ecology - Drinking Water	C558	06/30/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
03-May-2024 14:54

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

07 May 2024

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
24D0666

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed by
Phillip Bates
Date: 2024.05.07
09:16:51 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 24D0666	Turn-around Requested: 3 Day
AR Client Company: PERC	Phone: 425-346-0921
Client Contact: Kenny King	

Date: 4/29/2024
Page: of
No. of Coolers: Cooler Temps:



Analytical Resources, LLC
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6202 (fax)

Client Project Name: Superlon Plastics					Analysis Requested								Notes/Comments		
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C									
Sample ID	Date	Time	Matrix	No. Containers											
SO-TC-445A-042924	04/29/24	10:30	Soil	1	✓	✓									
SO-TC-445B-042924	04/29/24	10:45	Soil	1	✓	✓									
SO-TC-445C-042924	04/29/24	11:00	Soil	1	✓	✓									
Comments/Special Instructions					Relinquished by: (Signature) <i>Kenny King</i>			Received by: (Signature) <i>Roman</i>			Relinquished by: (Signature)			Received by: (Signature)	
					Printed Name: Kenny King			Printed Name: Roman			Printed Name:			Printed Name:	
					Company: PERC			Company: ARC			Company:			Company:	
					Date & Time: 4/29/24 15:47			Date & Time: 4/29/24 1547			Date & Time:			Date & Time:	

Limits of Liability: Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-445A-042924	24D0666-01	Solid	26-Apr-2024 10:30	29-Apr-2024 15:47
SO-TC-445B-042924	24D0666-02	Solid	26-Apr-2024 10:45	29-Apr-2024 15:47
SO-TC-445C-042924	24D0666-03	Solid	26-Apr-2024 11:00	29-Apr-2024 15:47



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:15

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 24D0666

Sample receipt

The sample(s) as listed on the preceding page were received 29-Apr-2024 15:47 under ARI work order 24D0666. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Suratona studies

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 24D0666

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1547 17.9°

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 9708

Cooler Accepted by: h Date: 4/29/24 Time: 1547

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: h Date: 4/29/24 Time: 1621 Labels checked by: h

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:15

SO-TC-445A-042924
24D0666-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/26/2024 10:30

Instrument: ICP3 Analyst: SH

Analyzed: 05/03/2024 16:17

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0666-01 A 02

Preparation Batch: BME0010

Sample Size: 25 mL (wet)

Prepared: 05/01/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0930	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0080	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:15

SO-TC-445A-042924
24D0666-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/26/2024 10:30

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/02/2024 14:40

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0666-01 A

Preparation Batch: BME0032

Sample Size: 20.82 g (wet)

Prepared: 05/01/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.40	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:15

SO-TC-445B-042924
24D0666-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/26/2024 10:45

Instrument: ICP3 Analyst: SH

Analyzed: 05/03/2024 16:11

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0666-02 A 02

Preparation Batch: BME0010

Sample Size: 25 mL (wet)

Prepared: 05/01/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.124	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0160	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:15

SO-TC-445B-042924
24D0666-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/26/2024 10:45

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/02/2024 14:40

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0666-02 A

Preparation Batch: BME0032

Sample Size: 20.26 g (wet)

Prepared: 05/01/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.36	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:15

SO-TC-445C-042924
24D0666-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/26/2024 11:00

Instrument: ICP3 Analyst: SH

Analyzed: 05/03/2024 16:14

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24D0666-03 A 02

Preparation Batch: BME0010

Sample Size: 25 mL (wet)

Prepared: 05/01/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0835	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0105	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:15

SO-TC-445C-042924
24D0666-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/26/2024 11:00

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/02/2024 14:40

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0666-03 A

Preparation Batch: BME0032

Sample Size: 20.5 g (wet)

Prepared: 05/01/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.29	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:15

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BME0010 - EPA 6010D

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BME0010-BLK1)						Prepared: 01-May-2024 Analyzed: 03-May-2024 16:04					
Arsenic	0.0835	0.0140	0.250	mg/L							J
Lead	0.0105	0.0065	0.100	mg/L							J
Duplicate (BME0010-DUP1)						Source: 24D0666-01 Prepared: 01-May-2024 Analyzed: 03-May-2024 16:20					
Arsenic	ND	0.0140	0.250	mg/L		0.0930					U
Lead	ND	0.0065	0.100	mg/L		0.0080					U
Matrix Spike (BME0010-MS1)						Source: 24D0666-01 Prepared: 01-May-2024 Analyzed: 03-May-2024 16:24					
Arsenic	3.98	0.0140	0.250	mg/L	4.00	0.0930	97.1	75-125			
Lead	3.61	0.0065	0.100	mg/L	4.00	0.0080	90.0	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:15

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BME0032-BS1)					Prepared: 01-May-2024 Analyzed: 02-May-2024 14:40				
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:15

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024
WADOE	WA Dept of Ecology	C558	06/30/2024
WA-DW	Ecology - Drinking Water	C558	06/30/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:15

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

07 May 2024

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
24E0008

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed
by Phillip Bates
Date: 2024.05.07
09:45:10 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 24E0008		Turn-around Requested: 3 Day			Date: 4/30/2024		 Analytical Resources, LLC Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6202 (fax)					
AR Client Company: PERC		Phone: 425-346-0921			Page: of							
Client Contact: Kenny King					No. of Coolers: Cooler Temps:							
Client Project Name: Superlon Plastics					Analysis Requested							
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only	pH 9045C						Notes/Comments
Sample ID	Date	Time	Matrix	No. Containers								
SO-TC-346A-043024	04/30/24	10:15	Soil	1	✓	✓						
SO-TC-346B-043024	04/30/24	10:30	Soil	1	✓	✓						
SO-TC-346C-043024	04/30/24	10:45	Soil	1	✓	✓						
Comments/Special Instructions		Relinquished by: (Signature) <i>Kenny King</i>			Received by: <i>Matthew Rice</i>			Relinquished by:			Received by:	
		Printed Name: Kenny King			Printed Name: <i>Matthew Rice</i>			Printed Name:			Printed Name:	
		Company: PERC			Company: <i>ARCC</i>			Company:			Company:	
		Date & Time: 4/30/24 16:16			Date & Time: <i>04/30/24 16:16</i>			Date & Time:			Date & Time:	

Limits of Liability: Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-346A-043024	24E0008-01	Solid	30-Apr-2024 10:15	30-Apr-2024 16:16
SO-TC-346B-043024	24E0008-02	Solid	30-Apr-2024 10:30	30-Apr-2024 16:16
SO-TC-346C-043024	24E0008-03	Solid	30-Apr-2024 10:45	30-Apr-2024 16:16



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:42

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 24E0008

Sample receipt

The sample(s) as listed on the preceding page were received 30-Apr-2024 16:16 under ARI work order 24E0008. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



WORK ORDER

24E0008

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: PERC-Pacific Environmental and Redevelopment

Project Manager: Phillip Bates

Project: Superlon Plastics

Project Number: SLON

Report To:

PERC-Pacific Environmental and Redevelopment Corp
Kenny King
8424 E Meadow Lake Drive
Snohomish, WA 98290
Phone: (425) 346-0921
Fax:

Invoice To:

PERC-Pacific Environmental and Redevelopment Corp
Jeffrey King
8424 E Meadow Lake Drive
Snohomish, WA 98290
Phone : (425) 238-2212
Fax:

Date Due: 06-May-2024 18:00 (3 day TAT)

Received By: Matthew Daniel

Date Received: 30-Apr-2024 16:16

Logged In By: Robert Leesemann

Date Logged In: 01-May-2024 08:48

Samples Received at 20.3°C

Intact, properly signed and dated custody seals attached to outside of coolers).....No
Custody papers properly filled out (in, signed, analyses requested, etc).....Yes
Was sufficient ice used (if appropriate).....No
All bottles arrived in good condition (unbroken).....Yes
Number of containers listed on COC match number received.....Yes
Correct bottles used for the requested analyses.....Yes
Analyses/bottles require preservation (attach preservation sheet excluding VOC).....No
Sample split at ARL.....No

Custody papers included with the cooler.....Yes
Was a temperature blank included in the cooler.....No
All bottles sealed in individual plastic bags.....No
All bottle labels complete and legible.....Yes
Bottle labels and tags agree with COC.....Yes
All VOC vials free of air bubbles.....No
Sufficient amount of sample sent in each bottle.....Yes

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------



WORK ORDER

24E0008

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: PERC-Pacific Environmental and Redevelopment Project Manager: Phillip Bates

Project: Superlon Plastics Project Number: SLON

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

24E0008-01 SO-TC-346A-043024 [Solid] Sampled 30-Apr-2024 10:15
(GMT-08:00) Pacific Time (US & Canada)

A = Glass W/M, Clear, 8 oz

pH, EPA 9045D, Solid	06-May-2024 15:00	3	14-May-2024 23:59
TCLP 1311	06-May-2024 15:00	3	28-May-2024 23:59
TCLP 6010D - As	06-May-2024 15:00	3	27-Oct-2024 23:59
TCLP 6010D - Pb	06-May-2024 15:00	3	27-Oct-2024 23:59

24E0008-02 SO-TC-346B-043024 [Solid] Sampled 30-Apr-2024 10:30
(GMT-08:00) Pacific Time (US & Canada)

A = Glass W/M, Clear, 8 oz

pH, EPA 9045D, Solid	06-May-2024 15:00	3	14-May-2024 23:59
TCLP 1311	06-May-2024 15:00	3	28-May-2024 23:59
TCLP 6010D - As	06-May-2024 15:00	3	27-Oct-2024 23:59
TCLP 6010D - Pb	06-May-2024 15:00	3	27-Oct-2024 23:59

24E0008-03 SO-TC-346C-043024 [Solid] Sampled 30-Apr-2024 10:45
(GMT-08:00) Pacific Time (US & Canada)

A = Glass W/M, Clear, 8 oz

pH, EPA 9045D, Solid	06-May-2024 15:00	3	14-May-2024 23:59
TCLP 1311	06-May-2024 15:00	3	28-May-2024 23:59
TCLP 6010D - As	06-May-2024 15:00	3	27-Oct-2024 23:59
TCLP 6010D - Pb	06-May-2024 15:00	3	27-Oct-2024 23:59

Reviewed By

Date

Page 2 of 2



Cooler Receipt Form

ARI Client: PERC

COC No(s): _____ (NA)

Assigned ARI Job No: 24E0008

Project Name: Superior Plastics

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES (NO)

Were custody papers included with the cooler? _____

(YES) NO

Were custody papers properly filled out (ink, signed, etc.) _____

(YES) NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1616 2030

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 5009708

Cooler Accepted by: MD

Date: 04/20/24

Time: 1616

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES (NO)

What kind of packing material was used? ...

Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES (NO)

How were bottles sealed in plastic bags? _____

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____

(YES) NO

Were all bottle labels complete and legible? _____

(YES) NO

Did the number of containers listed on COC match with the number of containers received? _____

(YES) NO

Did all bottle labels and tags agree with custody papers? _____

(YES) NO

Were all bottles used correct for the requested analyses? _____

(YES) NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA YES (NO)

Were all VOC vials free of air bubbles? _____

(NA) YES NO

Was sufficient amount of sample sent in each bottle? _____

(YES) NO

Date VOC Trip Blank was made at ARI _____

(NA)

Were the sample(s) split by ARI? _____

(NA)

YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: RL Date: 5-1-24 Time: 08:59 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 24E0008

Cooler#: 1 Temperature(°C): 20.8°C

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

*Samples received
above 6.0°C*

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: MD Date: 06/24/24 Time: 1616

00070F

Cooler Temperature Compliance Form

Version 001



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:42

SO-TC-346A-043024

24E0008-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/30/2024 10:15

Instrument: ICP3 Analyst: SH

Analyzed: 05/03/2024 16:51

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0008-01 A 02

Preparation Batch: BME0072

Sample Size: 25 mL (wet)

Prepared: 05/02/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.111	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:42

SO-TC-346A-043024
24E0008-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/30/2024 10:15

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/02/2024 14:40

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0008-01 A

Preparation Batch: BME0032

Sample Size: 20.15 g (wet)

Prepared: 05/01/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.40	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:42

SO-TC-346B-043024
24E0008-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/30/2024 10:30

Instrument: ICP3 Analyst: SH

Analyzed: 05/03/2024 16:55

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0008-02 A 02

Preparation Batch: BME0072

Sample Size: 25 mL (wet)

Prepared: 05/02/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0705	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:42

SO-TC-346B-043024
24E0008-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/30/2024 10:30

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/02/2024 14:40

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0008-02 A

Preparation Batch: BME0032

Sample Size: 20.67 g (wet)

Prepared: 05/01/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.64	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:42

SO-TC-346C-043024
24E0008-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/30/2024 10:45

Instrument: ICP3 Analyst: SH

Analyzed: 05/03/2024 16:58

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0008-03 A 02

Preparation Batch: BME0072

Sample Size: 25 mL (wet)

Prepared: 05/02/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0290	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:42

SO-TC-346C-043024
24E0008-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/30/2024 10:45

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/02/2024 14:40

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0008-03 A

Preparation Batch: BME0032

Sample Size: 20.44 g (wet)

Prepared: 05/01/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.76	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:42

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BME0072 - EPA 6010D

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BME0072-BLK1)					Prepared: 02-May-2024 Analyzed: 03-May-2024 16:08					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:42

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BME0032-BS1)					Prepared: 01-May-2024 Analyzed: 02-May-2024 14:40				
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:42

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024
WADOE	WA Dept of Ecology	C558	06/30/2024
WA-DW	Ecology - Drinking Water	C558	06/30/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:42

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

07 May 2024

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
24E0007

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed
by Phillip Bates
Date: 2024.05.07
09:38:44 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 24E0007		Turn-around Requested: 3 Day			Date: 4/30/2024		 Analytical Resources, LLC Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6202 (fax)							
AR Client Company: PERC		Phone: 425-346-0921			Page: of									
Client Contact: Kenny King					No. of Coolers: Cooler Temps:									
Client Project Name: Superlon Plastics					Analysis Requested							Notes/Comments		
Client Project #: SLON		Samplers: King			TCLP 1311 As/Pb Only pH 9045C									
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-347A-043024	04/30/24	14:15	Soil	1		✓	✓							
SO-TC-347B-043024	04/30/24	14:30	Soil	1		✓	✓							
SO-TC-347C-043024	04/30/24	14:45	Soil	1		✓	✓							
Comments/Special Instructions		Relinquished by:			Received by:			Relinquished by:			Received by:			
		(Signature) <i>Kenny King</i>			(Signature) <i>Matthew Lee</i>			(Signature)			(Signature)			
		Printed Name: <i>Kenny King</i>			Printed Name: <i>Matthew Lee</i>			Printed Name:			Printed Name:			
		Company: <i>PERC</i>			Company: <i>ARLL</i>			Company:			Company:			
		Date & Time: <i>4/30/2024 16:16</i>			Date & Time: <i>04/30/2024 16:14</i>			Date & Time:			Date & Time:			

Limits of Liability: Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-347A-043024	24E0007-01	Solid	30-Apr-2024 14:15	30-Apr-2024 16:16
SO-TC-347B-043024	24E0007-02	Solid	30-Apr-2024 14:30	30-Apr-2024 16:16
SO-TC-347C-043024	24E0007-03	Solid	30-Apr-2024 14:45	30-Apr-2024 16:16



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:37

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 24E0007

Sample receipt

The sample(s) as listed on the preceding page were received 30-Apr-2024 16:16 under ARI work order 24E0007. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 24E0007

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES

NO

Were custody papers included with the cooler? _____

YES

NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES

NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1616

20.3°C

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 5009708

Cooler Accepted by: MD

Date: 04/01/24

Time: 1616

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES

NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA

YES

NO

How were bottles sealed in plastic bags? _____

Individually

Grouped

Not

Did all bottles arrive in good condition (unbroken)? _____

YES

NO

Were all bottle labels complete and legible? _____

YES

NO

Did the number of containers listed on COC match with the number of containers received? _____

YES

NO

Did all bottle labels and tags agree with custody papers? _____

YES

NO

Were all bottles used correct for the requested analyses? _____

YES

NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA

YES

NO

Were all VOC vials free of air bubbles? _____

NA

YES

NO

Was sufficient amount of sample sent in each bottle? _____

YES

NO

Date VOC Trip Blank was made at ARI _____

NA

Were the sample(s) split by ARI? NA

YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: MD

Date: 04/01/2024

Time: 08:54

Labels checked by: _____

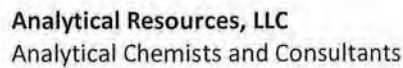
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____

[illegible]

Page 6 of 16 24E0007 ARISample FINAL 07 May 2024 0937



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:37

SO-TC-347A-043024

24E0007-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/30/2024 14:15

Instrument: ICP3 Analyst: SH

Analyzed: 05/03/2024 16:27

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0007-01 A 02

Preparation Batch: BME0072

Sample Size: 25 mL (wet)

Prepared: 05/02/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0325	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:37

SO-TC-347A-043024
24E0007-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/30/2024 14:15

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/02/2024 14:40

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0007-01 A

Preparation Batch: BME0032

Sample Size: 20.43 g (wet)

Prepared: 05/01/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.53	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:37

SO-TC-347B-043024
24E0007-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/30/2024 14:30

Instrument: ICP3 Analyst: SH

Analyzed: 05/03/2024 16:30

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0007-02 A 02

Preparation Batch: BME0072

Sample Size: 25 mL (wet)

Prepared: 05/02/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0375	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:37

SO-TC-347B-043024
24E0007-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/30/2024 14:30

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/02/2024 14:40

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0007-02 A

Preparation Batch: BME0032

Sample Size: 20.74 g (wet)

Prepared: 05/01/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.53	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:37

SO-TC-347C-043024
24E0007-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 04/30/2024 14:45

Instrument: ICP3 Analyst: SH

Analyzed: 05/03/2024 16:48

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0007-03 A 02

Preparation Batch: BME0072

Sample Size: 25 mL (wet)

Prepared: 05/02/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0360	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:37

SO-TC-347C-043024
24E0007-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 04/30/2024 14:45

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/02/2024 14:40

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0007-03 A

Preparation Batch: BME0032

Sample Size: 20.35 g (wet)

Prepared: 05/01/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.57	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:37

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BME0072 - EPA 6010D

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BME0072-BLK1)					Prepared: 02-May-2024 Analyzed: 03-May-2024 16:08					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:37

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BME0032-BS1)					Prepared: 01-May-2024 Analyzed: 02-May-2024 14:40				
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:37

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024
WADOE	WA Dept of Ecology	C558	06/30/2024
WA-DW	Ecology - Drinking Water	C558	06/30/2024



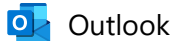
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
07-May-2024 09:37

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

**RE: One data package for your consideration**

From EH SolidWaste <EHSolidWaste@tpchd.org>
Date Thu 5/16/2024 8:15 AM
To kking perc-nw.com <kking@perc-nw.com>; Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc JEFFREY KING <jking@percnw.com>

We agree with you determination. These all look good for disposal.

Best Regards,

Robbie Grieco

Environmental Health Specialist I - Waste Management
Environmental Health Department
(253) 649-1892 o • rgrieco@tpchd.org • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: kking perc-nw.com <kking@perc-nw.com>
Sent: Tuesday, May 14, 2024 12:04 PM
To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>
Cc: JEFFREY KING <jking@percnw.com>
Subject: One data package for your consideration

CAUTION: External Email - Verify contents

Hi Keith,

The attached data, shown and summarized below, are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 21 cubic yards of soil. We are asking for permission to dispose of this soil at the LRI landfill under permit number WDA 2793R.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-348A-050124	0.129	ND	9.06	Asking for approval
SO-TC-348B-050124	0.097	ND	9.27	Asking for approval
SO-TC-348C-050124	0.0715	ND	9.14	Asking for approval

Thanks,
Kenny



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

09 May 2024

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
24E0063

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed
by Phillip Bates
Date: 2024.05.09
08:59:56 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 24E0063		Turn-around Requested: 3 Day		Date: 5/1/2024									
AR Client Company: PERC		Phone: 425-346-0921		Page: of									
Client Contact: Kenny King				No. of Coolers: Cooler Temps:									
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments					
Client Project #: SLON		Samplers: King											
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	Ph 9045C							
SO-TC-348A-050124	05/01/24	12:20	Soil	1	✓	✓							
SO-TC-348B-050124	05/01/24	12:35	Soil	1	✓	✓							
SO-TC-348C-050124	05/01/24	12:50	Soil	1	✓	✓							
Comments/Special Instructions		Relinquished by:		Received by:				Relinquished by:				Received by:	
		(Signature) Kenny King		(Signature) Roman				(Signature)				(Signature)	
		Printed Name: Kenny King		Printed Name: Roman				Printed Name:				Printed Name:	
		Company: PERC		Company: AR				Company:				Company:	
		Date & Time: 05/01/2024 16:14		Date & Time: 5/1/24 1614				Date & Time:				Date & Time:	



Analytical Resources, LLC
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6202 (fax)

Limits of Liability: Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-May-2024 08:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-348A-050124	24E0063-01	Solid	01-May-2024 12:20	01-May-2024 16:14
SO-TC-348B-050124	24E0063-02	Solid	01-May-2024 12:35	01-May-2024 16:14
SO-TC-348C-050124	24E0063-03	Solid	01-May-2024 12:50	01-May-2024 16:14



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-May-2024 08:56

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 24E0063

Sample receipt

The sample(s) as listed on the preceding page were received 01-May-2024 16:14 under ARI work order 24E0063. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon Plastics

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 24F0063

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES NO

Were custody papers included with the cooler? _____

YES NO

Were custody papers properly filled out (ink, signed, etc.) _____

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1614

22.8°

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 9708

Cooler Accepted by: [Signature]

Date: 5/1/24

Time: 1614

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? _____

NA YES NO

How were bottles sealed in plastic bags? _____

Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? _____

YES NO

Were all bottle labels complete and legible? _____

YES NO

Did the number of containers listed on COC match with the number of containers received? _____

YES NO

Did all bottle labels and tags agree with custody papers? _____

YES NO

Were all bottles used correct for the requested analyses? _____

YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

NA YES NO

Were all VOC vials free of air bubbles? _____

NA YES NO

Was sufficient amount of sample sent in each bottle? _____

YES NO

Date VOC Trip Blank was made at ARI: _____

NA

Were the sample(s) split by ARI? NA

YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: [Signature]

Date: 5/1/24

Time: 1643

Labels checked by: [Signature]

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-May-2024 08:56

SO-TC-348A-050124
24E0063-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/01/2024 12:20

Instrument: ICP3 Analyst: SH

Analyzed: 05/07/2024 18:28

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0063-01 A 02

Preparation Batch: BME0099

Sample Size: 25 mL (wet)

Prepared: 05/03/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.129	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-May-2024 08:56

SO-TC-348A-050124
24E0063-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/01/2024 12:20

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 05/08/2024 14:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0063-01 A

Preparation Batch: BME0198

Sample Size: 20.54 g (wet)

Prepared: 05/07/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.06	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-May-2024 08:56

SO-TC-348B-050124
24E0063-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/01/2024 12:35

Instrument: ICP3 Analyst: SH

Analyzed: 05/07/2024 18:37

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0063-02 A 02

Preparation Batch: BME0099

Sample Size: 25 mL (wet)

Prepared: 05/03/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0970	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-May-2024 08:56

SO-TC-348B-050124
24E0063-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/01/2024 12:35

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 05/08/2024 14:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0063-02 A

Preparation Batch: BME0198

Sample Size: 20.6395 g (wet)

Prepared: 05/07/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.27	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
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Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-May-2024 08:56

SO-TC-348C-050124
24E0063-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/01/2024 12:50

Instrument: ICP3 Analyst: SH

Analyzed: 05/07/2024 18:40

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0063-03 A 02

Preparation Batch: BME0099

Sample Size: 25 mL (wet)

Prepared: 05/03/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0715	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-May-2024 08:56

SO-TC-348C-050124
24E0063-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/01/2024 12:50

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 05/08/2024 14:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0063-03 A

Preparation Batch: BME0198

Sample Size: 20.9059 g (wet)

Prepared: 05/07/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.14	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-May-2024 08:56

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BME0099 - EPA 6010D

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BME0099-BLK1)		Prepared: 03-May-2024 Analyzed: 07-May-2024 18:25								
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U
Duplicate (BME0099-DUP1)		Source: 24E0063-01		Prepared: 03-May-2024 Analyzed: 07-May-2024 18:31						
Arsenic	0.127	0.0140	0.250	mg/L		0.129		1.57	20	J
Lead	ND	0.0065	0.100	mg/L		ND				U
Matrix Spike (BME0099-MS1)		Source: 24E0063-01		Prepared: 03-May-2024 Analyzed: 07-May-2024 18:34						
Arsenic	4.14	0.0140	0.250	mg/L	4.00	0.129	100	75-125		
Lead	3.76	0.0065	0.100	mg/L	4.00	ND	94.1	75-125		

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-May-2024 08:56

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BME0198 - EPA 9045D

Instrument: Accumet AB150 Analyst: LERB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BME0198-BS1)										
					Prepared: 07-May-2024 Analyzed: 08-May-2024 14:30					
pH	7.03	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BME0198-DUP1)										
					Source: 24E0063-01 Prepared: 07-May-2024 Analyzed: 08-May-2024 14:30					
pH	9.06	0.01	0.01	pH Units	9.06			0.00		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-May-2024 08:56

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024
WADOE	WA Dept of Ecology	C558	06/30/2024
WA-DW	Ecology - Drinking Water	C558	06/30/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
09-May-2024 08:56

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

**RE: Three data packages for your consideration**

From Robbie Grieco <RGrieco@tpchd.org>

Date Mon 5/20/2024 9:54 AM

To kking perc-nw.com <kking@perc-nw.com>; Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc JEFFREY KING <jking@percnw.com>

Kenny, we agree with your characterization. Thank you.

Best Regards,

Robbie Grieco

Environmental Health Specialist I - Waste Management

Environmental Health Department

(253) 649-1892 o • rgrieco@tpchd.org • www.tpchd.org



[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: kking perc-nw.com <kking@perc-nw.com>

Sent: Saturday, May 18, 2024 3:14 PM

To: Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>; Robbie Grieco <RGrieco@tpchd.org>

Cc: JEFFREY KING <jking@percnw.com>

Subject: Three data packages for your consideration

CAUTION: External Email - Verify contents

Keith:

Attached are 3 data packages for your review and approval. Each of the samples are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 21 cubic yards of soil. **To be clear we are NOT asking for approval for sample SO-TC-351C-050824.** The soil that this sample represents (and the soil adjacent to it (2') in the stockpile) are being re-treated to lower leachability. We are only asking for permission to dispose of the other soil samples at the LRI landfill under permit number WDA 2793R. The following table presents the data.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-349A-050624	0.121	ND	9.28	Asking for approval
SO-TC-349B-050624	0.141	ND	9.34	Asking for approval

SO-TC-349C-050624	0.105	ND	9.19	Asking for approval
SO-TC-350A-050724	0.08	ND	8.72	Asking for approval
SO-TC-350B-050724	0.102	1.72	8.94	Asking for approval
SO-TC-350C-050724	0.0915	1.24	8.98	Asking for approval
SO-TC-351A-050824	0.091	0.0875	9.23	Asking for approval
SO-TC-351B-050824	0.063	0.376	9.03	Asking for approval
SO-TC-351C-050824	0.071	5.43	9	Not asking for approval - Soil will be retreated per instructions in email

Thanks,
Kenny



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

15 May 2024

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
24E0153

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed
by Phillip Bates
Date: 2024.05.15
12:17:13 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 24E0153		Turn-around Requested: 3 Day		Date: 5/6/2024		 Analytical Resources, LLC Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6202 (fax)			
AR Client Company: PERC		Phone: 425-346-0921		Page: of					
Client Contact: Kenny King				No. of Coolers: Cooler Temps:					
Client Project Name: Superlon Plastics				Analysis Requested				Notes/Comments	
Client Project #: SLON		Samplers: King							
Sample ID	Date	Time	Matrix	No. Containers	TCLP 1311 As/Pb Only	pH 9045C			
SO-TC-349A-050624	05/06/24	09:10	Soil	1	✓	✓			
SO-TC-349B-050624	05/06/24	09:25	Soil	1	✓	✓			
SO-TC-349C-050624	05/06/24	09:40	Soil	1	✓	✓			
Comments/Special Instructions		Relinquished by:		Received by:		Relinquished by:		Received by:	
		(Signature) <i>Kenny King</i>		(Signature) <i>Emma Stewart</i>		(Signature)		(Signature)	
		Printed Name: Kenny King		Printed Name: Emma Stewart		Printed Name:		Printed Name:	
		Company: PERC		Company: ARI		Company:		Company:	
		Date & Time: 5/6/2024 16:16		Date & Time: 5/6/24 10:14		Date & Time:		Date & Time:	

Limits of Liability: Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-May-2024 09:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-349A-050624	24E0153-01	Solid	06-May-2024 09:10	06-May-2024 16:16
SO-TC-349B-050624	24E0153-02	Solid	06-May-2024 09:25	06-May-2024 16:16
SO-TC-349C-050624	24E0153-03	Solid	06-May-2024 09:40	06-May-2024 16:16



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-May-2024 09:20

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 24E0153

Sample receipt

The sample(s) as listed on the preceding page were received 06-May-2024 16:16 under ARI work order 24E0153. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.



Cooler Receipt Form

ARI Client: PERC
COC No(s): _____ NA
Assigned ARI Job No: 24E0153

Project Name: Super Ion Plastics
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES YES NO
Were custody papers properly filled out (ink, signed, etc.) YES YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 10:10 19.8
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 9708
Cooler Accepted by: EJ Date: 5/10/24 Time: 10:10

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other NONE
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES YES NO
Were all bottle labels complete and legible? YES YES NO
Did the number of containers listed on COC match with the number of containers received? YES YES NO
Did all bottle labels and tags agree with custody papers? YES YES NO
Were all bottles used correct for the requested analyses? YES YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES YES NO
Date VOC Trip Blank was made at ARI: NA
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: GD Date: 5/7/24 Time: 0732 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: <u>24E0153</u>		
Cooler#:	Temperature(°C): <u>19.8</u>	
Sample ID	Bottle Count	Bottle Type
Samples received above 16.0°C		
Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type
Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type
Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type

Completed by: E. S. R. Date: 5/10/24 Time: 16:14



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-May-2024 09:20

SO-TC-349A-050624

24E0153-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/06/2024 09:10

Instrument: ICP3 Analyst: SH

Analyzed: 05/13/2024 18:25

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0153-01 A 02

Preparation Batch: BME0217

Sample Size: 25 mL (wet)

Prepared: 05/08/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.121	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-May-2024 09:20

SO-TC-349A-050624
24E0153-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/06/2024 09:10

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 05/08/2024 14:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0153-01 A

Preparation Batch: BME0198

Sample Size: 20.3795 g (wet)

Prepared: 05/07/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.28	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-May-2024 09:20

SO-TC-349B-050624
24E0153-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/06/2024 09:25

Instrument: ICP3 Analyst: SH

Analyzed: 05/13/2024 18:29

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0153-02 A 02

Preparation Batch: BME0217

Sample Size: 25 mL (wet)

Prepared: 05/08/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.141	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-May-2024 09:20

SO-TC-349B-050624
24E0153-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/06/2024 09:25

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 05/08/2024 14:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0153-02 A

Preparation Batch: BME0198

Sample Size: 20.8225 g (wet)

Prepared: 05/07/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.34	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-May-2024 09:20

SO-TC-349C-050624
24E0153-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/06/2024 09:40

Instrument: ICP3 Analyst: SH

Analyzed: 05/13/2024 18:32

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0153-03 A 02

Preparation Batch: BME0217

Sample Size: 25 mL (wet)

Prepared: 05/08/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.105	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-May-2024 09:20

SO-TC-349C-050624
24E0153-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/06/2024 09:40

Instrument: Accumet AB150 Analyst: LERB

Analyzed: 05/08/2024 14:30

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0153-03 A

Preparation Batch: BME0198

Sample Size: 20.6937 g (wet)

Prepared: 05/07/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.19	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-May-2024 09:20

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BME0217 - EPA 6010D

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BME0217-BLK1)					Prepared: 08-May-2024 Analyzed: 13-May-2024 18:06					
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-May-2024 09:20

Instrument: Accumet AB150 Analyst: LERB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BME0198-BS1)					Prepared: 07-May-2024 Analyzed: 08-May-2024 14:30				
pH	7.03	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-May-2024 09:20

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024
WADOE	WA Dept of Ecology	C558	06/30/2024
WA-DW	Ecology - Drinking Water	C558	06/30/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
15-May-2024 09:20

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

17 May 2024

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
24E0189

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed
by Phillip Bates
Date: 2024.05.17
14:16:16 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 24E0189		Turn-around Requested: 3 Day		Date: 05/07/2024		 Analytical Resources, LLC Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6202 (fax)								
AR Client Company: PERC		Phone: 425-346-0921		Page: of										
Client Contact: Kenny King				No. of Coolers: Cooler Temps: 21.4°C										
Client Project Name: Superlon Plastics						Analysis Requested						Notes/Comments		
Client Project #: SLON		Samplers: King				TCLP 1311 As/Pb Only pH 9045C								
Sample ID	Date	Time	Matrix	No. Containers										
SO-TC-350A-050724	05/07/24	09:10	Soil	1	✓		✓							
SO-TC-350B-050724	05/07/24	09:25	Soil	1	✓		✓							
SO-TC-350C-050724	05/07/24	09:40	Soil	1	✓		✓							
Comments/Special Instructions		Relinquished by:		Received by:		Relinquished by:		Received by:						
		(Signature) <i>Kenny King</i>		(Signature) <i>Matthew Danne</i>		(Signature)		(Signature)						
		Printed Name:		Printed Name:		Printed Name:		Printed Name:						
		Kenny King		Matthew Danne										
Company:		Company:		Company:		Company:								
PERC		AR LLC												
Date & Time:		Date & Time:		Date & Time:		Date & Time:								
5/7/2024 16:17		05/07/24 16:17												

Limits of Liability: Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-350A-050724	24E0189-01	Solid	07-May-2024 09:10	07-May-2024 16:17
SO-TC-350B-050724	24E0189-02	Solid	07-May-2024 09:25	07-May-2024 16:17
SO-TC-350C-050724	24E0189-03	Solid	07-May-2024 09:40	07-May-2024 16:17



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:15

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 24E0189

Sample receipt

Sample(s) as listed on the preceding page were received 07-May-2024 16:17 under ARI work order 24E0189. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

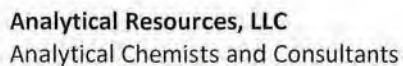
TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Cooler Temperature Compliance Form

Completed by: MP Date: 05/07/24 Time: 1617



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:15

SO-TC-350A-050724
24E0189-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/07/2024 09:10

Instrument: ICP3 Analyst: SH

Analyzed: 05/15/2024 21:19

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0189-01 A 02

Preparation Batch: BME0261

Sample Size: 25 mL (wet)

Prepared: 05/09/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0800	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:15

SO-TC-350A-050724
24E0189-01RE1 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/07/2024 09:10

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/13/2024 18:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0189-01RE1 A

Preparation Batch: BME0270

Sample Size: 20.06 g (wet)

Prepared: 05/09/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.72	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:15

SO-TC-350B-050724
24E0189-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/07/2024 09:25

Instrument: ICP3 Analyst: SH

Analyzed: 05/15/2024 20:36

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0189-02 A 02

Preparation Batch: BME0261

Sample Size: 25 mL (wet)

Prepared: 05/09/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.102	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	1.72	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:15

SO-TC-350B-050724
24E0189-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/07/2024 09:25

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/13/2024 18:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0189-02 A

Preparation Batch: BME0270

Sample Size: 20.38 g (wet)

Prepared: 05/09/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.94	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:15

SO-TC-350C-050724
24E0189-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/07/2024 09:40

Instrument: ICP3 Analyst: SH

Analyzed: 05/15/2024 20:40

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0189-03 A 02

Preparation Batch: BME0261

Sample Size: 25 mL (wet)

Prepared: 05/09/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0915	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	1.24	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:15

SO-TC-350C-050724
24E0189-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/07/2024 09:40

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/13/2024 18:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0189-03 A

Preparation Batch: BME0270

Sample Size: 20.62 g (wet)

Prepared: 05/09/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	8.98	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:15

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BME0261 - EPA 6010D

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BME0261-BLK1)						Prepared: 09-May-2024 Analyzed: 15-May-2024 19:44					
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BME0261-DUP1)						Source: 24E0189-01 Prepared: 09-May-2024 Analyzed: 15-May-2024 21:22					
Arsenic	0.0720	0.0140	0.250	mg/L		0.0800			10.50	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BME0261-MS1)						Source: 24E0189-01 Prepared: 09-May-2024 Analyzed: 15-May-2024 21:25					
Arsenic	4.28	0.0140	0.250	mg/L	4.00	0.0800	105	75-125			
Lead	3.90	0.0065	0.100	mg/L	4.00	ND	97.5	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:15

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BME0270 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BME0270-BS1)					Prepared: 09-May-2024 Analyzed: 13-May-2024 18:18					
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8			
Duplicate (BME0270-DUP1)					Source: 24E0189-01RE1 Prepared: 09-May-2024 Analyzed: 13-May-2024 18:18					
pH	8.81	0.01	0.01	pH Units	8.72			1.03	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:15

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024
WADOE	WA Dept of Ecology	C558	06/30/2024
WA-DW	Ecology - Drinking Water	C558	06/30/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:15

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

17 May 2024

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
24E0207

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed by
Phillip Bates
Date: 2024.05.17
14:21:35 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 24E0207		Turn-around Requested: 3 Day		Date: 5/8/2024		 Analytical Resources, LLC Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6202 (fax)																																																																																																																																																																																															
AR Client Company: PERC		Phone: 425-346-0921		Page: of																																																																																																																																																																																																	
Client Contact: Kenny King				No. of Coolers: Cooler Temps:																																																																																																																																																																																																	
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Client Project #: SLON		Samplers: King																																																																																																																																																																																																			

Comments/Special Instructions	Relinquished by: (Signature) <i>Kenny King</i>	Received by: (Signature) <i>E. Stewart</i>	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Kenny King	Printed Name: Emma Stewart	Printed Name:	Printed Name:
	Company: PERC	Company: ARI	Company:	Company:
	Date & Time: 5/8/2024 16:03	Date & Time: 5/8/24 16:04	Date & Time:	Date & Time:

Limits of Liability: Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-351A-050824	24E0207-01	Solid	08-May-2024 10:00	08-May-2024 16:04
SO-TC-351B-050824	24E0207-02	Solid	08-May-2024 10:15	08-May-2024 16:04
SO-TC-351C-050824	24E0207-03	Solid	08-May-2024 10:30	08-May-2024 16:04



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:20

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 24E0207

Sample receipt

The sample(s) as listed on the preceding page were received 08-May-2024 16:04 under ARI work order 24E0207. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Cooler Receipt Form

5/8/24 ES PERC
ARI Client: Superlon Plastics

5/8/24 ES
Project Name: Ston Superlon Plastics

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 24E0207

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? _____

YES (NO)

Were custody papers included with the cooler? _____

(YES) NO

Were custody papers properly filled out (ink, signed, etc.) _____

(YES) NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 16:04

24.2

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 8117

Cooler Accepted by: [Signature]

Date: 5/8/24

Time: 16:04

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? _____

YES (NO)

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other None

Was sufficient ice used (if appropriate)? _____

NA YES (NO)

How were bottles sealed in plastic bags? _____

Individually Grouped (Not)

Did all bottles arrive in good condition (unbroken)? _____

(YES) NO

Were all bottle labels complete and legible? _____

(YES) NO

Did the number of containers listed on COC match with the number of containers received? _____

(YES) NO

Did all bottle labels and tags agree with custody papers? _____

(YES) NO

Were all bottles used correct for the requested analyses? _____

(YES) NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...

(NA) YES NO

Were all VOC vials free of air bubbles? _____

(NA) YES NO

Was sufficient amount of sample sent in each bottle? _____

(YES) NO

Date VOC Trip Blank was made at ARI _____

(NA)

Were the sample(s) split by ARI? (NA) YES

Date/Time: _____

Equipment: _____

Split by: _____

Samples Logged by: [Signature]

Date: 5/8/24

Time: 16:17

Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

ARI Work Order: 24E0207

Cooler#: _____ Temperature(°C): 24.2

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Samples received
above 6°C

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Cooler#: _____ Temperature(°C): _____

Sample ID	Bottle Count	Bottle Type
-----------	--------------	-------------

Completed by: E. S. Date: 5/8/24 Time: 14:04

00070F

Cooler Temperature Compliance Form

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:20

SO-TC-351A-050824
24E0207-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/08/2024 10:00

Instrument: ICP3 Analyst: SH

Analyzed: 05/15/2024 20:43

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0207-01 A 02

Preparation Batch: BME0287

Sample Size: 25 mL (wet)

Prepared: 05/10/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0910	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.0875	mg/L	J



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:20

SO-TC-351A-050824
24E0207-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/08/2024 10:00

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/13/2024 18:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0207-01 A

Preparation Batch: BME0270

Sample Size: 20.5 g (wet)

Prepared: 05/09/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.23	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:20

SO-TC-351B-050824
24E0207-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/08/2024 10:15

Instrument: ICP3 Analyst: SH

Analyzed: 05/15/2024 20:29

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0207-02 A 02

Preparation Batch: BME0287

Sample Size: 25 mL (wet)

Prepared: 05/10/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0630	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	0.376	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:20

SO-TC-351B-050824
24E0207-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/08/2024 10:15

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/13/2024 18:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0207-02 A

Preparation Batch: BME0270

Sample Size: 20.29 g (wet)

Prepared: 05/09/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.03	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:20

SO-TC-351C-050824
24E0207-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/08/2024 10:30

Instrument: ICP3 Analyst: SH

Analyzed: 05/15/2024 20:33

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0207-03 A 02

Preparation Batch: BME0287

Sample Size: 25 mL (wet)

Prepared: 05/10/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0710	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	5.43	mg/L	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:20

SO-TC-351C-050824
24E0207-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/08/2024 10:30

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/13/2024 18:18

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0207-03 A

Preparation Batch: BME0270

Sample Size: 20.33 g (wet)

Prepared: 05/09/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.00	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:20

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BME0287 - EPA 6010D

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BME0287-BLK1)		Prepared: 10-May-2024 Analyzed: 15-May-2024 19:47									
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BME0287-DUP1)		Source: 24E0207-01		Prepared: 10-May-2024 Analyzed: 15-May-2024 20:46							
Arsenic	0.0900	0.0140	0.250	mg/L		0.0910			1.10	20	J
Lead	0.0920	0.0065	0.100	mg/L		0.0875			5.01	20	J
Matrix Spike (BME0287-MS1)		Source: 24E0207-01		Prepared: 10-May-2024 Analyzed: 15-May-2024 20:49							
Arsenic	4.22	0.0140	0.250	mg/L	4.00	0.0910	103	75-125			
Lead	3.90	0.0065	0.100	mg/L	4.00	0.0875	95.4	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:20

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
LCS (BME0270-BS1)					Prepared: 09-May-2024 Analyzed: 13-May-2024 18:18				
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8		



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:20

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024
WADOE	WA Dept of Ecology	C558	06/30/2024
WA-DW	Ecology - Drinking Water	C558	06/30/2024



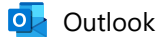
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
17-May-2024 14:20

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

**Re: One data package for your consideration**

From Robbie Grieco <RGrieco@tpchd.org>

Date Fri 5/24/2024 11:23 AM

To kking perc-nw.com <kking@perc-nw.com>; Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc JEFFREY KING <jking@percnw.com>

Kenny, these samples look good. These are cleared for disposal.

Best Regards,

Robbie Grieco

Environmental Health Specialist I - Waste Management

Environmental Health Department

(253) 649-1892 o • rgrieco@tpchd.org • www.tpchd.org

[Facebook](#) | [Instagram](#) | [Twitter](#) | [YouTube](#)

From: kking perc-nw.com <kking@perc-nw.com>

Sent: Friday, May 24, 2024 11:08 AM

To: Keith Johnston <KJohnston@tpchd.org>; Robbie Grieco <RGrieco@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: JEFFREY KING <jking@percnw.com>

Subject: One data package for your consideration

CAUTION: External Email - Verify contents

Hi Keith and Robbie,

The attached data, shown and summarized below, are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 21 cubic yards of soil. We are asking for permission to dispose of this soil at the LRI landfill under permit number WDA 2793R.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-353A-051424	0.104	ND	9.23	Asking for approval
SO-TC-353B-051424	0.089	ND	9.25	Asking for approval
SO-TC-353C-051424	0.136	ND	9.21	Asking for approval

Thanks,

Kenny



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

23 May 2024

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
24E0338

Associated SDG ID(s)
N/A

Susan

Dunniho

Digitally signed by
Susan Dunniho
Date: 2024.05.23
08:52:16 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Susan Dunniho For Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: 24E0338	Turn-around Requested: 3 Day
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AR Client Company: PERC	Phone: 425-346-0921
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Client Contact: Kenny King

Client Project Name: Superlon Plastics
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Client Project #: SLON	Samplers: King
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Sample ID	Date	Time	Matrix	No. Containers
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SO-TC-353A-051424	05/14/24	10:15	Soil	1
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SO-TC-353B-051424	05/14/24	10:30	Soil	1
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SO-TC-353C-051424	05/14/24	10:45	Soil	1
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Comments/Special Instructions	Relinquished by: (Signature) Kenny King	Received by: (Signature) E. Stewart
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	Printed Name: Kenny King	Printed Name: Emma Stewart
--	------------------------------------	--------------------------------------

	Company: PERC	Company: ARL
--	-------------------------	------------------------

	Date & Time: 5/14/2024 16:12	Date & Time: 5/14/24 10:12
--	--	--------------------------------------

Date: 5/14/2024

Page: of

No. of Coolers:	Cooler Temps:
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Analytical Resources, LLC
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6202 (fax)

Analysis Requested										Notes/Comments
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TCLP 1311 As/Pb Only	pH 9045C									
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Limits of Liability: Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSSDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-May-2024 08:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-353A-051424	24E0338-01	Solid	14-May-2024 10:15	14-May-2024 16:12
SO-TC-353B-051424	24E0338-02	Solid	14-May-2024 10:30	14-May-2024 16:12
SO-TC-353C-051424	24E0338-03	Solid	14-May-2024 10:45	14-May-2024 16:12



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-May-2024 08:51

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 24E0338

Sample receipt

The sample(s) as listed on the preceding page were received 14-May-2024 16:12 under ARI work order 24E0338. For details regarding sample receipt, please refer to the Cooler Receipt Form.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

Wet Chemistry (pH)

The sample(s) were prepared and analyzed within the recommended holding times.

The blank spike (BS/LCS) percent recoveries were within control limits.



WORK ORDER

24E0338

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: PERC-Pacific Environmental and Redevelopment

Project Manager: Phillip Bates

Project: Superlon Plastics

Project Number: SLON

Report To:

PERC-Pacific Environmental and Redevelopment Corp
Kenny King
8424 E Meadow Lake Drive
Snohomish, WA 98290
Phone: (425) 346-0921
Fax:

Invoice To:

PERC-Pacific Environmental and Redevelopment Corp
Jeffrey King
8424 E Meadow Lake Drive
Snohomish, WA 98290
Phone : (425) 238-2212
Fax:

Date Due: 20-May-2024 18:00 (3 day TAT)

Received By: Emma Stewart

Date Received: 14-May-2024 16:12

Logged In By: Robert Leeseemann

Date Logged In: 15-May-2024 10:50

Samples Received at: 25.4°C

Intact, properly signed and dated custody seals attached to outside of cooler(s).....No
Custody papers properly filled out (in, signed, analyses requested, etc).....Yes
Was sufficient ice used (if appropriate).....No
All bottles arrived in good condition (unbroken).....Yes
Number of containers listed on COC match number received.....Yes
Correct bottles used for the requested analyses.....Yes
Analyses/bottles require preservation (attach preservation sheet excluding VOC).....No
Sample split at ARI.....No

Custody papers included with the cooler.....Yes
Was a temperature blank included in the cooler.....No
All bottles sealed in individual plastic bags.....No
All bottle labels complete and legible.....Yes
Bottle labels and tags agree with COC.....Yes
All VOC vials free of air bubbles.....No
Sufficient amount of sample sent in each bottle.....Yes

Analysis	Due	TAT	Expires	Comments
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WORK ORDER

24E0338

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: PERC-Pacific Environmental and Redevelopment Project Manager: Phillip Bates
Project: Superlon Plastics Project Number: SLON

Analysis	Due	TAT	Expires	Comments
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24E0338-01 SO-TC-353A-051424 [Solid] Sampled 14-May-2024 10:15
(GMT-08:00) Pacific Time (US & Canada)

A = Glass W/M, Clear, 8 oz

pH, EPA 9045D, Solid	20-May-2024 15:00	3	28-May-2024 23:59
TCLP 1311	20-May-2024 15:00	3	11-Jun-2024 23:59
TCLP 6010D - As	20-May-2024 15:00	3	10-Nov-2024 23:59
TCLP 6010D - Pb	20-May-2024 15:00	3	10-Nov-2024 23:59

24E0338-02 SO-TC-353B-051424 [Solid] Sampled 14-May-2024 10:30
(GMT-08:00) Pacific Time (US & Canada)

A = Glass W/M, Clear, 8 oz

pH, EPA 9045D, Solid	20-May-2024 15:00	3	28-May-2024 23:59
TCLP 1311	20-May-2024 15:00	3	11-Jun-2024 23:59
TCLP 6010D - As	20-May-2024 15:00	3	10-Nov-2024 23:59
TCLP 6010D - Pb	20-May-2024 15:00	3	10-Nov-2024 23:59

24E0338-03 SO-TC-353C-051424 [Solid] Sampled 14-May-2024 10:45
(GMT-08:00) Pacific Time (US & Canada)

A = Glass W/M, Clear, 8 oz

pH, EPA 9045D, Solid	20-May-2024 15:00	3	28-May-2024 23:59
TCLP 1311	20-May-2024 15:00	3	11-Jun-2024 23:59
TCLP 6010D - As	20-May-2024 15:00	3	10-Nov-2024 23:59
TCLP 6010D - Pb	20-May-2024 15:00	3	10-Nov-2024 23:59

Reviewed By

Date

Page 2 of 2



Cooler Receipt Form

ARI Client: PERC

Project Name: Superlon Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 24E0338

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES YES NO

Were custody papers properly filled out (ink, signed, etc.) YES YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 10:12 25.4

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 9708

Cooler Accepted by: [Signature] Date: 5/14/24 Time: 10:12

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES YES NO

Were all bottle labels complete and legible? YES YES NO

Did the number of containers listed on COC match with the number of containers received? YES YES NO

Did all bottle labels and tags agree with custody papers? YES YES NO

Were all bottles used correct for the requested analyses? YES YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES YES NO

Was sufficient amount of sample sent in each bottle? YES YES NO

Date VOC Trip Blank was made at ARI NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

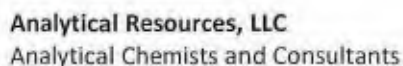
Samples Logged by: RL Date: 5-15-24 Time: 10:50 Labels checked by: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Temperature Compliance Form

Completed by: E. [Signature] Date: 5/14/24 Time: 10:12

Version 001
10/27/2021



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-May-2024 08:51

SO-TC-353A-051424
24E0338-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/14/2024 10:15

Instrument: ICP3 Analyst: SH

Analyzed: 05/21/2024 17:51

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0338-01 A 02

Preparation Batch: BME0425

Sample Size: 25 mL (wet)

Prepared: 05/16/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.104	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-May-2024 08:51

SO-TC-353A-051424
24E0338-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/14/2024 10:15

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/16/2024 15:24

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0338-01 A

Preparation Batch: BME0432

Sample Size: 20.18 g (wet)

Prepared: 05/16/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.23	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-May-2024 08:51

SO-TC-353B-051424
24E0338-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/14/2024 10:30

Instrument: ICP3 Analyst: SH

Analyzed: 05/21/2024 17:23

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0338-02 A 02

Preparation Batch: BME0425

Sample Size: 25 mL (wet)

Prepared: 05/16/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0890	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-May-2024 08:51

SO-TC-353B-051424
24E0338-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/14/2024 10:30

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/16/2024 15:24

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0338-02 A

Preparation Batch: BME0432

Sample Size: 20.33 g (wet)

Prepared: 05/16/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.25	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-May-2024 08:51

SO-TC-353C-051424
24E0338-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/14/2024 10:45

Instrument: ICP3 Analyst: SH

Analyzed: 05/21/2024 17:26

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0338-03 A 02

Preparation Batch: BME0425

Sample Size: 25 mL (wet)

Prepared: 05/16/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.136	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-May-2024 08:51

SO-TC-353C-051424
24E0338-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/14/2024 10:45

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/16/2024 15:24

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0338-03 A

Preparation Batch: BME0432

Sample Size: 20.35 g (wet)

Prepared: 05/16/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.21	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-May-2024 08:51

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BME0425 - EPA 6010D

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Blank (BME0425-BLK1)		Prepared: 16-May-2024 Analyzed: 21-May-2024 17:08								
Arsenic	ND	0.0140	0.250	mg/L						U
Lead	ND	0.0065	0.100	mg/L						U
Duplicate (BME0425-DUP1)		Source: 24E0338-01		Prepared: 16-May-2024 Analyzed: 21-May-2024 17:55						
Arsenic	0.104	0.0140	0.250	mg/L		0.104		0.48	20	J
Lead	ND	0.0065	0.100	mg/L		ND				U
Matrix Spike (BME0425-MS1)		Source: 24E0338-01		Prepared: 16-May-2024 Analyzed: 21-May-2024 18:09						
Arsenic	4.07	0.0140	0.250	mg/L	4.00	0.104	99.2	75-125		
Lead	3.65	0.0065	0.100	mg/L	4.00	ND	91.2	75-125		

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-May-2024 08:51

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
LCS (BME0432-BS1)					Prepared: 16-May-2024 Analyzed: 16-May-2024 15:24					
pH	7.00	0.01	0.01	pH Units	7.00	100	99.2-100.8			



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-May-2024 08:51

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
WADOE	WA Dept of Ecology	C558	06/30/2024
WA-DW	Ecology - Drinking Water	C558	06/30/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
23-May-2024 08:51

Notes and Definitions

B	This analyte was detected in the method blank.
D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

**RE: Three data packages for your consideration**

From Robbie Grieco <RGrieco@tpchd.org>

Date Fri 5/31/2024 8:11 AM

To kking perc-nw.com <kking@perc-nw.com>; Keith Johnston <KJohnston@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc JEFFREY KING <jking@percnw.com>

These results look good. Thanks.

Best Regards,

Robbie Grieco

Environmental Health Specialist I - Waste Management
Environmental Health Department
(253) 649-1892 o • rgrieco@tpchd.org • www.tpchd.org



tpchd.org | [Facebook](https://www.facebook.com/tpchd) | [Instagram](https://www.instagram.com/tpchd) | [X](https://twitter.com/tpchd) | [YouTube](https://www.youtube.com/tpchd)

From: kking perc-nw.com <kking@perc-nw.com>

Sent: Friday, May 31, 2024 6:22 AM

To: Keith Johnston <KJohnston@tpchd.org>; Robbie Grieco <RGrieco@tpchd.org>; EH SolidWaste <EHSolidWaste@tpchd.org>

Cc: JEFFREY KING <jking@percnw.com>

Subject: Three data packages for your consideration

CAUTION: External Email - Verify contents

Hi Keith and Robbie,

The attached data, shown and summarized below, are for soil excavated during the remediation of the Superlon Site in Tacoma. Each sample represents approximately 21 cubic yards of soil. We are asking for permission to dispose of this soil at the LRI landfill under permit number WDA 2793R.

SAMPLE ID	Arsenic Concentration (TCLP) mg/L	Lead Concentration (TCLP) mg/L	pH	Request
SO-TC-354A-051524	0.104	ND	9.31	Asking for approval
SO-TC-354B-051524	0.0695	ND	9.38	Asking for approval
SO-TC-354C-051524	0.084	ND	9.2	Asking for approval
SO-TC-355A-052024	0.071	ND	9.04	Asking for approval

SO-TC-355B-052024	0.079	ND	8.93	Asking for approval
SO-TC-355C-052024	0.0715	ND	9.08	Asking for approval
SO-TC-356A-052124	0.0755	ND	9.19	Asking for approval
SO-TC-356B-052124	0.0655	ND	9.14	Asking for approval
SO-TC-356C-052124	0.0745	0.484	9	Asking for approval

Thanks,
Kenny



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

29 May 2024

Kenny King
PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish, WA 98290

RE: Superlon Plastics (SLON)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
24E0354

Associated SDG ID(s)
N/A

Phillip
Bates

Digitally signed by
Phillip Bates
Date: 2024.05.29
16:26:03 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

AR Assigned Number: **24E0354** Turn-around Requested: **3 Day**

AR Client Company: **PERC** Phone: **425-346-0921**

Client Contact: **Kenny King**

Client Project Name: **Superlon Plastics**

Client Project #: **SLON** Samplers: **King**

Sample ID	Date	Time	Matrix	No. Containers
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SO-TC-354A-051524	05/15/24	13:00	Soil	1
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SO-TC-354B-051524	05/15/24	13:15	Soil	1
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SO-TC-354C-051524	05/15/24	13:30	Soil	1
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Date: **05/15/2024**

Page: **of**

No. of Coolers: **Cooler Temps:**

Analysis Requested

Notes/Comments

TCLP 1311 As/Pb Only

pH 9045C

✓ ✓

✓ ✓

✓ ✓



Analytical Resources, LLC
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6202 (fax)

Limits of Liability: Analytical Resources, LLC (AR) will perform all requested services in accordance with appropriate methodology following AR Standard Operating Procedures and the AR Quality Assurance Program. This program meets standards for the industry. The total liability of AR, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by AR release AR from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between AR and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to AR will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hard copy data, whichever is longer. Sediment samples submitted under PSSDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-May-2024 16:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SO-TC-354A-051524	24E0354-01	Solid	15-May-2024 13:00	15-May-2024 16:15
SO-TC-354B-051524	24E0354-02	Solid	15-May-2024 13:15	15-May-2024 16:15
SO-TC-354C-051524	24E0354-03	Solid	15-May-2024 13:30	15-May-2024 16:15



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-May-2024 16:22

Work Order Case Narrative

Client: PERC-Pacific Environmental and Redevelopment Corp

Project: Superlon Plastics

Project Number: SLON

Work Order: 24E0354

Sample receipt

The sample(s) as listed on the preceding page were received 15-May-2024 16:15 under ARI work order 24E0354. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

TCLP Metals

The sample(s) were leached, digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank was clean at the reporting limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Cooler Receipt Form

ARI Client: PERC

Project Name: Superior Plastics

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 24E0354

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES YES NO

Were custody papers properly filled out (ink, signed, etc.) YES YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1615

20.40

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 9708

Cooler Accepted by: [Signature] Date: 5/15/24 Time: 1615

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI... NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: [Signature] Date: 5/15/24 Time: 1621 Labels checked by:

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-May-2024 16:22

SO-TC-354A-051524

24E0354-01 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/15/2024 13:00

Instrument: ICP3 Analyst: SH

Analyzed: 05/28/2024 18:29

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0354-01 A 02

Preparation Batch: BME0446

Sample Size: 25 mL (wet)

Prepared: 05/17/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.104	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-May-2024 16:22

SO-TC-354A-051524
24E0354-01 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/15/2024 13:00

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/16/2024 15:24

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0354-01 A

Preparation Batch: BME0432

Sample Size: 20.82 g (wet)

Prepared: 05/16/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.31	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-May-2024 16:22

SO-TC-354B-051524
24E0354-02 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/15/2024 13:15

Instrument: ICP3 Analyst: SH

Analyzed: 05/28/2024 18:20

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0354-02 A 02

Preparation Batch: BME0446

Sample Size: 25 mL (wet)

Prepared: 05/17/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0695	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-May-2024 16:22

SO-TC-354B-051524
24E0354-02 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/15/2024 13:15

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/16/2024 15:24

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0354-02 A

Preparation Batch: BME0432

Sample Size: 20.8 g (wet)

Prepared: 05/16/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.38	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-May-2024 16:22

SO-TC-354C-051524
24E0354-03 (Solid)

TCLP Metals and Metallic Compounds

Method: EPA 6010D

Sampled: 05/15/2024 13:30

Instrument: ICP3 Analyst: SH

Analyzed: 05/28/2024 18:23

Sample Preparation:

Preparation Method: LEN Digestion of EPA 1311 Elutriate

Extract ID: 24E0354-03 A 02

Preparation Batch: BME0446

Sample Size: 25 mL (wet)

Prepared: 05/17/2024

Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	5	0.0140	0.250	0.0840	mg/L	J
Lead	7439-92-1	5	0.0065	0.100	ND	mg/L	U



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-May-2024 16:22

SO-TC-354C-051524
24E0354-03 (Solid)

Wet Chemistry

Method: EPA 9045D

Sampled: 05/15/2024 13:30

Instrument: Accumet AB150 Analyst: SRB

Analyzed: 05/16/2024 15:24

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24E0354-03 A

Preparation Batch: BME0432

Sample Size: 20.04 g (wet)

Prepared: 05/16/2024

Final Volume: 20 g

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
pH		1	0.01	0.01	9.20	pH Units	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-May-2024 16:22

Analysis by: Analytical Resources, LLC

TCLP Metals and Metallic Compounds - Quality Control

Batch BME0446 - EPA 6010D

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BME0446-BLK1)					Prepared: 17-May-2024 Analyzed: 28-May-2024 18:14						
Arsenic	ND	0.0140	0.250	mg/L							U
Lead	ND	0.0065	0.100	mg/L							U
Duplicate (BME0446-DUP1)					Source: 24E0354-01 Prepared: 17-May-2024 Analyzed: 28-May-2024 18:32						
Arsenic	0.113	0.0140	0.250	mg/L		0.104			7.85	20	J
Lead	ND	0.0065	0.100	mg/L		ND					U
Matrix Spike (BME0446-MS1)					Source: 24E0354-01 Prepared: 17-May-2024 Analyzed: 28-May-2024 18:35						
Arsenic	4.16	0.0140	0.250	mg/L	4.00	0.104	101	75-125			
Lead	3.76	0.0065	0.100	mg/L	4.00	ND	93.9	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-May-2024 16:22

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BME0432 - EPA 9045D

Instrument: Accumet AB150 Analyst: SRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BME0432-BS1)											
						Prepared: 16-May-2024		Analyzed: 16-May-2024 15:24			
pH	7.00	0.01	0.01	pH Units	7.00		100	99.2-100.8			
Duplicate (BME0432-DUP1)											
				Source: 24E0354-01		Prepared: 16-May-2024		Analyzed: 16-May-2024 15:24			
pH	9.26	0.01	0.01	pH Units		9.31			0.54	20	



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
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Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-May-2024 16:22

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010D in Solid	
Arsenic	NELAP,WADOE
Lead	NELAP,WADOE,DoD-ELAP
EPA 9045D in Solid	
pH	WADOE,DoD-ELAP,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
WADOE	WA Dept of Ecology	C558	06/30/2024
WA-DW	Ecology - Drinking Water	C558	06/30/2024



PERC-Pacific Environmental and Redevelopment Corp
8424 E Meadow Lake Drive
Snohomish WA, 98290

Project: Superlon Plastics
Project Number: SLON
Project Manager: Kenny King

Reported:
29-May-2024 16:22

Notes and Definitions

D	The reported value is from a dilution
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.