

Attachment 3

Laboratory Analytical Reports

**Woodlife Area Soil Removal Delineation
Assessment: Laboratory Analytical
Reports**

Report Prepared for:

Chris Kramer
SLR International Corporation
1800 Blankenship Road
Suite 440
West Linn OR 97068

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Prepared Date:

October 21, 2024

Report Information:

Pace Project #: 10697605

Sample Receipt Date: 06/22/2024

Client Project #: 108.V20689.00001 Nord Woodli

Client Sub PO #: N/A

State Cert #: C486

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Kirsten Hogberg, your Pace Project Manager.

This report has been reviewed by:



October 28, 2024

Kirsten Hogberg, Project Manager
(612) 607-6407
(612) 607-6444 (fax)
kirsten.hogberg@pacelabs.com



Report of Laboratory Analysis

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The results relate only to the samples included in this report.

DISCUSSION

This report presents the results from the analyses performed on forty-seven samples submitted by a representative of SLR International Corporation. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using USEPA Method 1613B. The reporting limits were set to statistically-derived method detection limits (MDLs) and were adjusted for sample extraction amount and dilution. Estimated maximum possible concentration (EMPC) values were treated as positives in the toxic equivalence calculations. The samples were received above the recommended temperature range of 0-6 degrees Celsius. This report was revised to provide results for an additional twelve samples.

Second column confirmation analyses of 2,3,7,8-TCDF values obtained from the primary (DB5-MS) column are performed only when specifically requested for a project and only when the values are above the concentration of the lowest calibration standard. Typical resolution for this isomer using the DB5-MS column ranges from 25-30%.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 20-120%. Except for two values, which were flagged "R" on the results table, the labeled standard recoveries obtained for this project were within the target ranges specified in Method 1613B. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

Values were flagged "I" where incorrect isotope ratios were obtained or "P" where polychlorinated diphenyl ethers were present. Concentrations below the calibration range were flagged "J" and should be regarded as estimates. Concentrations above the calibration range were flagged "E" and should also be regarded as estimates. Values obtained from analyses of diluted extracts were flagged "D". Values obtained from separate analyses were flagged "N2". In cases where the estimated detection limit (EDL) values were above the method detection limits, the EDLs were provided and flagged "A".

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show two of the five blanks to contain trace levels of selected congeners. These levels were below the calibration range of the method. Sample concentrations similar to the corresponding blank levels were flagged "B" on the results tables and may be, at least partially, attributed to the background.

Laboratory and matrix spike samples were also prepared using clean reference matrix or sample matrix that had been fortified with native standard materials. The results show that the spiked native compounds in the laboratory spike samples were recovered at 84-129%. These results were within the target ranges for the method. The background-subtracted recovery values obtained for OCDD in the matrix spike sample analyses prepared using sample "WL-P1-1-062124" were outside the target range and flagged "R" on the results tables. Also, two RPD values were above the 20% target upper limit. These deviations may be due to the levels of the affected congeners in the sample materials and/or sample inhomogeneity. Matrix spikes were prepared with the 08/13/2024 extraction batch using sample material from a separate project; results from these analyses will be provided upon request.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Missouri	10100
Alabama	40770	Montana	CERT0092
Alaska-DW	MN00064	Nebraska	NE-OS-18-06
Alaska-UST	17-009	Nevada	MN00064
Arizona	AZ0014	New Hampshire	2081
Arkansas - WW	88-0680	New Jersey	MN002
Arkansas-DW	MN00064	New York	11647
California	2929	North Carolina-DW	27700
Colorado	MN00064	North Carolina-WW	530
Connecticut	PH-0256	North Dakota	R-036
Florida	E87605	Ohio-DW	41244
Georgia	959	Ohio-VAP (1700)	CL101
Hawaii	MN00064	Ohio-VAP (1800)	CL110
Idaho	MN00064	Oklahoma	9507
Illinois	200011	Oregon-Primary	MN300001
Indiana	C-MN-01	Oregon-Secondary	MN200001
Iowa	368	Pennsylvania	68-00563
Kansas	E-10167	Puerto Rico	MN00064
Kentucky-DW	90062	South Carolina	74003
Kentucky-WW	90062	Tennessee	TN02818
Louisiana-DEQ	AI-84596	Texas	T104704192
Louisiana-DW	MN00064	Utah	MN00064
Maine	MN00064	Vermont	VT-027053137
Maryland	322	Virginia	460163
Michigan	9909	Washington	C486
Minnesota	027-053-137	West Virginia-DEP	382
Minnesota-Ag	via MN 027-053-137	West Virginia-DW	9952C
Minnesota-Petrofund	1240	Wisconsin	999407970
Mississippi	MN00064	Wyoming-UST	via A2LA 2926.01

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Pace Analytical Services, LLC
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Minneapolis, MN 55414
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Fax: 612.607.6444
www.pacelabs.com

Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

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Report No: 10697605-101316-C-12-RT-01

Revision: 1

Page 5 of 6

Pace Pace® Location Requested (City/State): **CHAIN-OF-CUSTODY Analytical Request Document**
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name: SLR	Contact/Report To: Chris Kramer
Street Address: 22118 20th Ave SE Ste 6202 Bothell, WA 98021	Phone #: (503) 723-4423
	E-Mail: ckramer@sirconsulting.com
	Cc E-Mail:
Customer Project #: 108.120089.00001	Invoice to: Chris Kramer & AP
Project Name: Nord Woodlife Area	Invoice E-mail: ckramer@sirconsulting.com ; ap-us@sirconsulting.com
Site Collection Info/Facility ID (as applicable):	Purchase Order # (if applicable):
	Quote #:

Time Zone Collected: [] AK [X] PT [] MT [] CT [] ET	County / State origin of sample(s): Snohomish County / WA
Data Deliverables: [] Level II [] Level III [X] Level IV [] EQUIS [X] Other Ecology EMEDD	Regulatory Program (DW, RCRA, etc.) as applicable: Ecology EIM Rush (Pre-approval required): [] Same Day [] 1 Day [] 2 Day [] 3 Day Other _____ Date Results Requested: * Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)
	Reportable [] Yes [] No DW PWSID # or WW Permit # as applicable: Field Filtered (if applicable): [] Yes [] No Analysis:

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Residual Chlorine		
			Date	Time	Date	Time		Result	Units	
WL-P1-1-2-062124	Soil	Grab	06/21/24	1025						X
WL-P1-3-4-062124				1025						X
WL-P1-5-6-062124				1025						X
WL-P2-1-2-062124				952						X
WL-P2-3-4-062124				952						X
WL-P2-5-6-062124				952						X
WL-P3-3-4-062124				935						X
WL-P3-5-6-062124				935						X
WL-P3-7-8-062124				935						X
WL-P4-1-2-062024			06/20/24	1421						X

Additional Instructions from Pace®: Expect 2 coolers		Collected By: Printed Name Signature
Relinquished by/Company: (Signature) <i>[Signature]</i>	Date/Time: 06/21/24 1430	Received by/Company: (Signature) <i>[Signature]</i>
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)



10697605

Scan QR Code for instructions

Specify Container Size **	**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other
Identify Container Preservative Type***	*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other
Analysis Requested	
Proj. Mgr:	
AcctNum / Client ID:	
Table #:	
Profile / Template:	
Prelog / Bottle Ord. ID:	
Sample Comment	

1613B Dioxin/Furan
17 Congener

Customer Remarks / Special Conditions / Possible Hazards:
Coolers: 2 Thermometer ID: T1 Correction Factor (°C): TRU-0.4 Obs. Temp. (°C): 17.4/23.6 Corrected Temp. (°C): 17.4/23.2 [] On Ice
Tracking Number: 9
Delivered by: [] In-Person [] Courier
[] FedEx [] UPS [] Other
Page: of

E2 3123568

Pace® Location Requested (City/State):										CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields										LAB USE ONLY- Affix Workorder/Login Label Here																																																																																																																			
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Customer Sample ID</th> <th rowspan="2">Matrix *</th> <th rowspan="2">Comp / Grab</th> <th colspan="2">Composite Start</th> <th colspan="2">Collected or Composite End</th> <th rowspan="2"># Cont.</th> <th colspan="2">Residual Chlorine</th> </tr> <tr> <th>Date</th> <th>Time</th> <th>Date</th> <th>Time</th> <th>Result</th> <th>Units</th> </tr> </thead> <tbody> <tr><td>WL-P4-3-4-062024</td><td>Soil</td><td>Gch</td><td>6/20/24</td><td>1421</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>WL-P4-5-6-062024</td><td></td><td></td><td></td><td>1421</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>WL-P5-3-4-062024</td><td></td><td></td><td></td><td>1336</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>WL-P5-5-6-062024</td><td></td><td></td><td></td><td>1336</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>WL-P5-7-8-062024</td><td></td><td></td><td></td><td>1336</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>WL-P6-3-4-062024</td><td></td><td></td><td></td><td>1436</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>WL-P6-5-6-062024</td><td></td><td></td><td></td><td>1436</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>WL-P6-7-8-062024</td><td></td><td></td><td></td><td>1436</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>WL-P7-3-4-062124</td><td></td><td></td><td>6/21/24</td><td>905</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>WL-P7-5-6-062124</td><td></td><td></td><td>6/21/24</td><td>905</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>										Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Residual Chlorine		Date	Time	Date	Time	Result	Units	WL-P4-3-4-062024	Soil	Gch	6/20/24	1421						WL-P4-5-6-062024				1421						WL-P5-3-4-062024				1336						WL-P5-5-6-062024				1336						WL-P5-7-8-062024				1336						WL-P6-3-4-062024				1436						WL-P6-5-6-062024				1436						WL-P6-7-8-062024				1436						WL-P7-3-4-062124			6/21/24	905						WL-P7-5-6-062124			6/21/24	905						Additional Instructions from Pace®: Collected By: Printed Name Signature									
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							Date		Time			Result												Units	
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WL-P8-3-4-062124									845																
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WL-P11-9-10-062024																1645																			
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WL-P12-9-10-062024																1615																			
WL-P13-3-4-062024																1456																			
WL-P13-5-6-062024																1456																			
WL-P13-7-8-062024																1456																			
WL-P14-1-2-062024																1316																			
Additional Instructions from Pace®:										Collected By: Printed Name Signature					Customer Remarks / Special Conditions / Possible Hazards:																				
Relinquished by/Company: (Signature) [Signature]										Date/Time: 06/21/24 1430					Received by/Company: (Signature)					Date/Time:					Tracking Number:										
Relinquished by/Company: (Signature)										Date/Time:					Received by/Company: (Signature)					Date/Time:					Delivered by: ☐ In-Person ☐ Courier										
Relinquished by/Company: (Signature)										Date/Time:					Received by/Company: (Signature)					Date/Time:					☐ FedEx ☐ UPS ☐ Other										
Relinquished by/Company: (Signature)										Date/Time:					Received by/Company: (Signature)					Date/Time:					Page: of										

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at <https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/>

ENV-FRM-CORQ-0019_v02_110123 ©

ENV-FRM-CORQ-0019 v02 110123 ©

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Pace® Location Requested (City/State):		CHAIN-OF-CUSTODY Analytical Request Document		LAB USE ONLY- Affix Workorder/Login Label Here	
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields					
Company Name: SLR	Contact/Report To: Chris Kramer			Scan QR Code for instructions	
Street Address: 22118 20th Ave SE Ste G202 Bothell, WA 98021	Phone #: (509) 723-4423				
Customer Project #: 108-V20689	E-Mail: chramer@slrconsulting.com				
Project Name: Nord Woodlife Area	Cc E-Mail:				
Site Collection Info/Facility ID (as applicable):	Invoice to: Chris Kramer & AP	Specify Container Size **		**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other	
	Invoice E-mail: chramer@slrconsulting.com ap-us@slrconsulting.com	Identify Container Preservative Type***		*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other	
Time Zone Collected: [] AK [X] MT [] CT [] ET	Purchase Order # (if applicable):	Analysis Requested			
Data Deliverables:	Quote #:				
[] Level II [] Level III [X] Level IV	County / State origin of sample(s): Snohomish County/WA				
[] EQUIS	Regulatory Program (DW, RCRA, etc.) as applicable: Ecology ELM				
[X] Other Ecology ELMEDD	Rush (Pre-approval required): [] Same Day [] 1 Day [] 2 Day [] 3 Day Other				
	Date Results Requested:				
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)					
Customer Sample ID	Matrix *	Comp / Grab	Composite Start	Collected or Composite End	# Cont.
			Date Time	Date Time	
WL-P24-3-4-001924	soil	grab	06/19/24	1344	
WL-P24-5-6-001924				1344	
WL-P25-1-2-001924				1323	
WL-P25-3-4-001924				1323	
WL-P25-5-6-001924				1323	
WL-P26-1-2-001924				1300	
WL-P26-3-4-001924				1300	
WL-P26-5-6-001924				1300	
WL-P127-6-7-001924				1519	
Additional Instructions from Pace®:			Collected By: Printed Name Signature		Customer Remarks / Special Conditions / Possible Hazards:
					# Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C): [] On Ice
Relinquished by/Company: (Signature)	Date/Time: 06/21/24 1430	Received by/Company: (Signature)		Date/Time:	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)		Date/Time:	Delivered by: [] In-Person [] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)		Date/Time:	[] FedEx [] UPS [] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)		Date/Time:	Page: of

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ENV-FRM-CORQ-0019_v02_110123 ©

ENV-FRM-MIN4-0150 v17_Sample Condition Upon Receipt

CLIENT NAME:

SLR

PROJECT #:

WO#: 10697605

COURIER:

☐ Client☐ Commercial☒ FedEx☐ Pace☐ Speedee☐ UPS☐ USPS

PM: KNH

Due Date: 07/16/24

CLIENT: SLR

TRACKING NUMBER:

☒ See Exceptions form
ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present:

☐ YES☒ NO

Seals Intact:

☐ YES☒ NO

Biological Tissue Frozen:

☐ YES☐ NO☒ N/A

Packing Material:

☒ Bubble Bags☐ Bubble Wrap☐ None☐ Other

Temp Blank:

☒ YES☐ NO

Type of Ice:

☐ Blue☐ Dry☐ Wet

Thermometer:

☒ T1 (0461)☐ T2 (0436)☐ T3 (0459)☐ T4 (0402)☐ T5 (0178)☐ T6 (0235)☒ Melted☐ None☐ T7 (0042)☐ T8 (0775)☐ T9 (0727)☐ 01339252 (1710)

Did Samples Originate in West Virginia:

☐ YES☒ NO

Were All Container Temps taken:

☐ YES☐ NO☒ N/A

Correction Factor: True/0.14

Cooler Temp Read w/Temp Blank: 17.4/23.6

Average Corrected Temp (no Temp Blank Only): °C

Cooler Temp Corrected w/Temp Blank: 17.4/23.2

NOTE: Temp should be above freezing to 6°C.

☐ See Exceptions Form ENV-FRM-MIN4-0142☐ 1 ContainerUSDA Regulated Soil: ☒ N/A - Water Sample/Other (describe):

Initials & Date of Person Examining Contents: ELC-24-24

Did Samples originate from one of the following states (check map) - AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☒ NODid samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☒ NO

NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one):	☐ DULUTH	☒ MINNEAPOLIS	☐ VIRGINIA	YES	NO	N/A	COMMENT(S)								
Chain of Custody Present and Filled Out?		☒		☒	☐		1.								
Chain of Custody Relinquished?		☒		☒	☐		2.								
Sampler Name and/or Signature on COC?		☒		☒	☐		3.								
Samples Arrived within Hold Time?		☒		☒	☐		4. If Fecal: ☐ <8 hrs ☐ >8 hr, <24 hr ☐ No								
Short Hold Time Analysis (<72 hr)?		☐		☒	☐		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/E. coli ☐ Other:								
Rush Turn Around Time Requested?		☐		☐	☒		6.								
Sufficient Sample Volume?		☒		☒	☐		7.								
Correct Containers Used?		☒		☒	☐		8.								
- Pace Containers Used?		☒		☒	☐										
Containers Intact?		☒		☒	☐		9.								
Field Filtered Volume Received for Dissolved Tests?		☐		☐	☐	☒	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO								
Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: ☐ Oil ☒ Soil ☐ Water ☐ Other		☒		☒	☐		11. If NO, write ID/Date/Time of container below: ☐ See Exceptions form ENV-FRM-MIN4-0142								
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS NOTE: If adding preservation to the container, verify with the PM first. Clients may require adding preservative to the field and equipment blanks when this occurs.		☐		☐	☐	☒	12. Sample #: ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ Zinc Acetate Positive for Residual Chlorine: ☐ YES ☐ NO pH Paper Lot # <table border="1"><thead><tr><th>Residual Chlorine</th><th>0-6 Roll</th><th>0-6 Strip</th><th>0-14 Strip</th></tr></thead><tbody><tr><td></td><td></td><td></td><td></td></tr></tbody></table> ☐ See Exceptions form ENV-FRM-MIN4-0142	Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip				
Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip												
Headspace in Methyl Mercury Container?		☐		☐	☐	☒	13.								
Extra labels present on soil VOA or WIDRO containers?		☐		☐	☐	☒	14.								
Headspace in VOA Vials (greater than 6mm)?		☐		☐	☐	☒	☐ See Exceptions form ENV-FRM-MIN4-0140								
Trip Blanks Present?		☐		☐	☐	☒	15.								
Trip Blank Custody Seals Present?		☐		☐	☐	☒	Pace Trip Blank Lot # (if purchased):								

CLIENT NOTIFICATION / RESOLUTION

FIELD DATA REQUIRED: ☐ YES ☐ NO

Person Contacted:

Date & Time:

Comments / Resolution:

Project Manager Review: Kirsten Hogberg

Date: 6/25/2024

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By:

Line:

ENV-FRM-MIN4-0142 v03_Sample Condition Upon Receipt - Exceptions

Workorder #: 10697605

No Temp Blank		
Read Temp	Corrected Temp	Average temp

PMI Notified of Out of Temp Cooler? ☐ YES ☐ NO If yes, indicate who was contacted, date and time. If no, indicate reason why.
Multiple Cooler Project? ☐ YES ☐ NO

If anything is OVER 6.0°C, you **MUST** document containers in this section HERE



Tracking Number	Temperature
77699530 7295	17.4
77699530 7284	23.2



Out of Temp Sample ID	Container Type	# of Containers
<i>all samples</i>		

pH Adjustment Log for Preserved Samples										
Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								YES	NO	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	

Comments:

Inadequate ice



Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- H2 = Extracted outside of holding time
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P1-1-062124		
Lab Sample ID	10697605001		
Filename	Y240706A_14		
Injected By	JRH		
Total Amount Extracted	13.7 g	Matrix	SOLID
% Moisture	8.8	Dilution	NA
Dry Weight Extracted	12.5 g	Collected	06/21/2024 10:25
ICAL ID	Y240308	Received	06/22/2024 09:00
CCal Filename(s)	Y240706A_01	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113598	Analyzed	07/06/2024 12:32

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.78	----	0.18	J	2,3,7,8-TCDF-13C	2.00	92
Total TCDF	11	----	0.18		2,3,7,8-TCDD-13C	2.00	66
					1,2,3,7,8-PeCDF-13C	2.00	68
2,3,7,8-TCDD	ND	----	0.15		2,3,4,7,8-PeCDF-13C	2.00	70
Total TCDD	11	----	0.15		1,2,3,7,8-PeCDD-13C	2.00	68
					1,2,3,4,7,8-HxCDF-13C	2.00	80
1,2,3,7,8-PeCDF	0.75	----	0.18	J	1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	1.00	----	0.16	J	2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	14	----	0.16		1,2,3,7,8,9-HxCDF-13C	2.00	87
					1,2,3,4,7,8-HxCDD-13C	2.00	70
1,2,3,7,8-PeCDD	0.79	----	0.16	J	1,2,3,6,7,8-HxCDD-13C	2.00	87
Total PeCDD	6.9	----	0.16		1,2,3,4,6,7,8-HpCDF-13C	2.00	71
					1,2,3,4,7,8,9-HpCDF-13C	2.00	77
1,2,3,4,7,8-HxCDF	1.0	----	0.31	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,6,7,8-HxCDF	----	3.2	0.32	PJ	OCDD-13C	4.00	57
2,3,4,6,7,8-HxCDF	0.96	----	0.28	J			
1,2,3,7,8,9-HxCDF	ND	----	0.31		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	23	----	0.28		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.3	----	0.31	J	2,3,7,8-TCDD-37Cl4	0.20	71
1,2,3,6,7,8-HxCDD	2.9	----	0.38	J			
1,2,3,7,8,9-HxCDD	2.2	----	0.36	J			
Total HxCDD	25	----	0.31				
1,2,3,4,6,7,8-HpCDF	18	----	0.28		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	1.2	----	0.34	J	Equivalence: 3.4 ng/Kg		
Total HpCDF	47	----	0.28		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	67	----	0.27				
Total HpCDD	120	----	0.27				
OCDF	43	----	0.87				
OCDD	560	----	0.76				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

P = PCDE Interference

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P1-3-4-062124		
Lab Sample ID	10697605002		
Filename	L241016A_12		
Injected By	JF		
Total Amount Extracted	12.7 g	Matrix	SOLID
% Moisture	23.2	Dilution	NA
Dry Weight Extracted	9.77 g	Collected	06/21/2024 10:25
ICAL ID	L240918	Received	06/22/2024 09:00
CCal Filename(s)	L241016A_02	Extracted	10/14/2024 14:00
Method Blank ID	BLANK-115186	Analyzed	10/16/2024 19:37

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	1.8	----	0.27	2,3,7,8-TCDF-13C	2.00	68
Total TCDF	33	----	0.27	2,3,7,8-TCDD-13C	2.00	62
				1,2,3,7,8-PeCDF-13C	2.00	59
2,3,7,8-TCDD	0.40	----	0.26 J	2,3,4,7,8-PeCDF-13C	2.00	55
Total TCDD	21	----	0.26	1,2,3,7,8-PeCDD-13C	2.00	59
				1,2,3,4,7,8-HxCDF-13C	2.00	76
1,2,3,7,8-PeCDF	2.4	----	0.64 J	1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	1.4	----	0.96 J	2,3,4,6,7,8-HxCDF-13C	2.00	72
Total PeCDF	17	----	0.64	1,2,3,7,8,9-HxCDF-13C	2.00	51
				1,2,3,4,7,8-HxCDD-13C	2.00	67
1,2,3,7,8-PeCDD	ND	----	0.85	1,2,3,6,7,8-HxCDD-13C	2.00	71
Total PeCDD	19	----	0.85	1,2,3,4,6,7,8-HpCDF-13C	2.00	47
				1,2,3,4,7,8,9-HpCDF-13C	2.00	46
1,2,3,4,7,8-HxCDF	ND	----	0.98	1,2,3,4,6,7,8-HpCDD-13C	2.00	51
1,2,3,6,7,8-HxCDF	ND	----	1.0	OCDD-13C	4.00	27
2,3,4,6,7,8-HxCDF	ND	----	0.92			
1,2,3,7,8,9-HxCDF	ND	----	0.94	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	5.8	----	0.92	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.6	2,3,7,8-TCDD-37Cl4	0.20	66
1,2,3,6,7,8-HxCDD	1.1	----	0.95 J			
1,2,3,7,8,9-HxCDD	ND	----	1.3			
Total HxCDD	17	----	0.95			
1,2,3,4,6,7,8-HpCDF	2.9	----	0.76 J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	1.0	Equivalence: 1.3 ng/Kg		
Total HpCDF	7.5	----	0.76	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	9.9	----	0.64			
Total HpCDD	22	----	0.64			
OCDF	5.7	----	2.4 J			
OCDD	76	----	2.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P2-1-2-062124		
Lab Sample ID	10697605004		
Filename	Y240706A_15		
Injected By	JRH		
Total Amount Extracted	14.6 g	Matrix	SOLID
% Moisture	8.8	Dilution	NA
Dry Weight Extracted	13.3 g	Collected	06/21/2024 09:52
ICAL ID	Y240308	Received	06/22/2024 09:00
CCal Filename(s)	Y240706A_01	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113598	Analyzed	07/06/2024 13:16

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	1.2	----	0.17		2,3,7,8-TCDF-13C	2.00	84
Total TCDF	22	----	0.17		2,3,7,8-TCDD-13C	2.00	62
					1,2,3,7,8-PeCDF-13C	2.00	58
2,3,7,8-TCDD	----	0.62	0.14	Jl	2,3,4,7,8-PeCDF-13C	2.00	63
Total TCDD	17	----	0.14		1,2,3,7,8-PeCDD-13C	2.00	60
					1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	1.7	----	0.17	J	1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	2.7	----	0.15	J	2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	83	----	0.15		1,2,3,7,8,9-HxCDF-13C	2.00	85
					1,2,3,4,7,8-HxCDD-13C	2.00	68
1,2,3,7,8-PeCDD	5.6	----	0.15		1,2,3,6,7,8-HxCDD-13C	2.00	84
Total PeCDD	58	----	0.15		1,2,3,4,6,7,8-HpCDF-13C	2.00	62
					1,2,3,4,7,8,9-HpCDF-13C	2.00	63
1,2,3,4,7,8-HxCDF	8.4	----	0.29	A	1,2,3,4,6,7,8-HpCDD-13C	2.00	63
1,2,3,6,7,8-HxCDF	----	34	0.30	P	OCDD-13C	4.00	45
2,3,4,6,7,8-HxCDF	7.5	----	0.28	A			
1,2,3,7,8,9-HxCDF	----	0.74	0.31	JlA	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	97	----	0.28		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	14	----	0.29		2,3,7,8-TCDD-37Cl4	0.20	68
1,2,3,6,7,8-HxCDD	36	----	0.35				
1,2,3,7,8,9-HxCDD	28	----	0.34				
Total HxCDD	300	----	0.29				
1,2,3,4,6,7,8-HpCDF	180	----	0.71	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	13	----	1.1	A	Equivalence: 36 ng/Kg		
Total HpCDF	440	----	0.71		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	1100	----	0.25				
Total HpCDD	1900	----	0.25				
OCDF	400	----	0.82				
OCDD	11000	----	0.72	E			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

A = Reporting Limit based on signal to noise (EDL)

P = PCDE Interference

E = Exceeds calibration range

I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P2-3-4-062124		
Lab Sample ID	10697605005		
Filename	U240730B_06		
Injected By	SMT		
Total Amount Extracted	16.1 g	Matrix	SOLID
% Moisture	20.8	Dilution	NA
Dry Weight Extracted	12.7 g	Collected	06/21/2024 09:52
ICAL ID	U240423	Received	06/22/2024 09:00
CCal Filename(s)	U240730B_02	Extracted	07/25/2024 14:00
Method Blank ID	BLANK-113956	Analyzed	07/31/2024 01:50

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	4.1	----	0.21	2,3,7,8-TCDF-13C	2.00	93
Total TCDF	84	----	0.21	2,3,7,8-TCDD-13C	2.00	97
				1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	0.79	----	0.20	2,3,4,7,8-PeCDF-13C	2.00	99
Total TCDD	47	----	0.20	1,2,3,7,8-PeCDD-13C	2.00	102
				1,2,3,4,7,8-HxCDF-13C	2.00	95
1,2,3,7,8-PeCDF	1.6	----	0.49 J	1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	2.7	----	0.74 J	2,3,4,6,7,8-HxCDF-13C	2.00	63
Total PeCDF	25	----	0.49	1,2,3,7,8,9-HxCDF-13C	2.00	80
				1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	1.6	----	0.65 J	1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	36	----	0.65	1,2,3,4,6,7,8-HpCDF-13C	2.00	61
				1,2,3,4,7,8,9-HpCDF-13C	2.00	54
1,2,3,4,7,8-HxCDF	1.0	----	0.75 J	1,2,3,4,6,7,8-HpCDD-13C	2.00	65
1,2,3,6,7,8-HxCDF	1.3	----	0.80 J	OCDD-13C	4.00	43
2,3,4,6,7,8-HxCDF	1.4	----	0.70 J			
1,2,3,7,8,9-HxCDF	ND	----	0.72	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	12	----	0.70	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.3	2,3,7,8-TCDD-37Cl4	0.20	105
1,2,3,6,7,8-HxCDD	----	1.5	0.73 JI			
1,2,3,7,8,9-HxCDD	----	1.2	0.97 JI			
Total HxCDD	42	----	0.73			
1,2,3,4,6,7,8-HpCDF	4.8	----	0.59	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.80	Equivalence: 4.5 ng/Kg		
Total HpCDF	9.8	----	0.59	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	17	----	0.49			
Total HpCDD	36	----	0.49			
OCDF	6.8	----	1.8 J			
OCDD	150	----	1.6			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

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I = Isotope ratio out of specification

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P3-3-4-062124		
Lab Sample ID	10697605007		
Filename	Y240706A_16		
Injected By	JRH		
Total Amount Extracted	12.9 g	Matrix	SOLID
% Moisture	48.6	Dilution	NA
Dry Weight Extracted	6.62 g	Collected	06/21/2024 09:35
ICAL ID	Y240308	Received	06/22/2024 09:00
CCal Filename(s)	Y240706A_01	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113598	Analyzed	07/06/2024 14:00

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.33	2,3,7,8-TCDF-13C	2.00	94
Total TCDF	0.60	----	0.33 J	2,3,7,8-TCDD-13C	2.00	65
				1,2,3,7,8-PeCDF-13C	2.00	71
2,3,7,8-TCDD	ND	----	0.29 A	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	1.2	----	0.29 BJ	1,2,3,7,8-PeCDD-13C	2.00	72
				1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	ND	----	0.34	1,2,3,6,7,8-HxCDF-13C	2.00	95
2,3,4,7,8-PeCDF	ND	----	0.31	2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	ND	----	0.31	1,2,3,7,8,9-HxCDF-13C	2.00	86
				1,2,3,4,7,8-HxCDD-13C	2.00	70
1,2,3,7,8-PeCDD	ND	----	0.31	1,2,3,6,7,8-HxCDD-13C	2.00	90
Total PeCDD	ND	----	0.31	1,2,3,4,6,7,8-HpCDF-13C	2.00	71
				1,2,3,4,7,8,9-HpCDF-13C	2.00	72
1,2,3,4,7,8-HxCDF	ND	----	0.59	1,2,3,4,6,7,8-HpCDD-13C	2.00	72
1,2,3,6,7,8-HxCDF	ND	----	0.61	OCDD-13C	4.00	43
2,3,4,6,7,8-HxCDF	ND	----	0.52			
1,2,3,7,8,9-HxCDF	ND	----	0.58	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.52	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.58	2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	ND	----	0.71			
1,2,3,7,8,9-HxCDD	ND	----	0.68			
Total HxCDD	0.91	----	0.58 J			
1,2,3,4,6,7,8-HpCDF	ND	----	0.53	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.65	Equivalence: 0.029 ng/Kg		
Total HpCDF	ND	----	0.53	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	2.1	----	0.51 J			
Total HpCDD	5.5	----	0.51 J			
OCDF	ND	----	1.6			
OCDD	27	----	1.4			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

B = Less than 10x higher than method blank level

A = Reporting Limit based on signal to noise (EDL)

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P4-1-2-062024		
Lab Sample ID	10697605010		
Filename	Y240706A_17		
Injected By	JRH		
Total Amount Extracted	13.4 g	Matrix	SOLID
% Moisture	6.7	Dilution	NA
Dry Weight Extracted	12.5 g	Collected	06/20/2024 14:21
ICAL ID	Y240308	Received	06/22/2024 09:00
CCal Filename(s)	Y240706A_01	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113598	Analyzed	07/06/2024 14:43

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	1.8	----	0.18	2,3,7,8-TCDF-13C	2.00	98
Total TCDF	26	----	0.18	2,3,7,8-TCDD-13C	2.00	116
				1,2,3,7,8-PeCDF-13C	2.00	120
2,3,7,8-TCDD	0.48	----	0.15 J	2,3,4,7,8-PeCDF-13C	2.00	110
Total TCDD	11	----	0.15	1,2,3,7,8-PeCDD-13C	2.00	107
				1,2,3,4,7,8-HxCDF-13C	2.00	98
1,2,3,7,8-PeCDF	5.2	----	0.18	1,2,3,6,7,8-HxCDF-13C	2.00	98
2,3,4,7,8-PeCDF	5.4	----	0.17	2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF	73	----	0.17	1,2,3,7,8,9-HxCDF-13C	2.00	84
				1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	7.2	----	0.16	1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	48	----	0.16	1,2,3,4,6,7,8-HpCDF-13C	2.00	51
				1,2,3,4,7,8,9-HpCDF-13C	2.00	48
1,2,3,4,7,8-HxCDF	21	----	0.47 A	1,2,3,4,6,7,8-HpCDD-13C	2.00	53
1,2,3,6,7,8-HxCDF	----	140	0.45 PA	OCDD-13C	4.00	34
2,3,4,6,7,8-HxCDF	12	----	0.57 A			
1,2,3,7,8,9-HxCDF	2.7	----	0.57 JA	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	430	----	0.45	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	22	----	0.31	2,3,7,8-TCDD-37Cl4	0.20	121
1,2,3,6,7,8-HxCDD	110	----	0.38			
1,2,3,7,8,9-HxCDD	41	----	0.36			
Total HxCDD	900	----	0.31			
1,2,3,4,6,7,8-HpCDF	550	----	0.75 A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	42	----	1.2 A	Equivalence: 110 ng/Kg		
Total HpCDF	2000	----	0.75	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	4100	----	0.43 EA			
Total HpCDD	9200	----	0.43 E			
OCDF	2400	----	0.90 A			
OCDD	63000	----	0.77 E			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

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ND = Not Detected

NA = Not Applicable

NC = Not Calculated

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J = Estimated value

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P = PCDE Interference

E = Exceeds calibration range

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P4-3-4-062024		
Lab Sample ID	10697605011		
Filename	U240730B_07		
Injected By	SMT		
Total Amount Extracted	15.1 g	Matrix	SOLID
% Moisture	12.6	Dilution	NA
Dry Weight Extracted	13.2 g	Collected	06/20/2024 14:21
ICAL ID	U240423	Received	06/22/2024 09:00
CCal Filename(s)	U240730B_02	Extracted	07/25/2024 14:00
Method Blank ID	BLANK-113956	Analyzed	07/31/2024 02:37

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.20	2,3,7,8-TCDF-13C	2.00	91
Total TCDF	ND	----	0.20	2,3,7,8-TCDD-13C	2.00	80
				1,2,3,7,8-PeCDF-13C	2.00	88
2,3,7,8-TCDD	ND	----	0.19	2,3,4,7,8-PeCDF-13C	2.00	86
Total TCDD	ND	----	0.19	1,2,3,7,8-PeCDD-13C	2.00	88
				1,2,3,4,7,8-HxCDF-13C	2.00	95
1,2,3,7,8-PeCDF	ND	----	0.47	1,2,3,6,7,8-HxCDF-13C	2.00	91
2,3,4,7,8-PeCDF	ND	----	0.71	2,3,4,6,7,8-HxCDF-13C	2.00	90
Total PeCDF	ND	----	0.47	1,2,3,7,8,9-HxCDF-13C	2.00	82
				1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	ND	----	0.62	1,2,3,6,7,8-HxCDD-13C	2.00	89
Total PeCDD	ND	----	0.62	1,2,3,4,6,7,8-HpCDF-13C	2.00	67
				1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	ND	----	0.73	1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,6,7,8-HxCDF	ND	----	0.77	OCDD-13C	4.00	49
2,3,4,6,7,8-HxCDF	ND	----	0.68			
1,2,3,7,8,9-HxCDF	ND	----	0.70	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.68	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.2	2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	ND	----	0.70			
1,2,3,7,8,9-HxCDD	ND	----	0.94			
Total HxCDD	2.5	----	0.70 J			
1,2,3,4,6,7,8-HpCDF	ND	----	0.57	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.77	Equivalence: 0.061 ng/Kg		
Total HpCDF	ND	----	0.57	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	4.7	----	0.47			
Total HpCDD	11	----	0.47			
OCDF	ND	----	1.7			
OCDD	45	----	1.5			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

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J = Estimated value

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P5-3-4-062024		
Lab Sample ID	10697605013		
Filename	U240706A_09		
Injected By	JRH		
Total Amount Extracted	12.6 g	Matrix	SOLID
% Moisture	13.0	Dilution	NA
Dry Weight Extracted	11.0 g	Collected	06/20/2024 13:36
ICAL ID	U240423	Received	06/22/2024 09:00
CCal Filename(s)	U240706A_02	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113598	Analyzed	07/06/2024 17:53

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.20	2,3,7,8-TCDF-13C	2.00	85
Total TCDF	0.20	----	0.20 J	2,3,7,8-TCDD-13C	2.00	71
				1,2,3,7,8-PeCDF-13C	2.00	90
2,3,7,8-TCDD	ND	----	0.18	2,3,4,7,8-PeCDF-13C	2.00	91
Total TCDD	ND	----	0.18	1,2,3,7,8-PeCDD-13C	2.00	89
				1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	ND	----	0.21	1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	ND	----	0.19	2,3,4,6,7,8-HxCDF-13C	2.00	78
Total PeCDF	ND	----	0.19	1,2,3,7,8,9-HxCDF-13C	2.00	78
				1,2,3,4,7,8-HxCDD-13C	2.00	62
1,2,3,7,8-PeCDD	ND	----	0.18	1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	ND	----	0.18	1,2,3,4,6,7,8-HpCDF-13C	2.00	63
				1,2,3,4,7,8,9-HpCDF-13C	2.00	64
1,2,3,4,7,8-HxCDF	ND	----	0.36	1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	ND	----	0.37	OCDD-13C	4.00	65
2,3,4,6,7,8-HxCDF	ND	----	0.32			
1,2,3,7,8,9-HxCDF	ND	----	0.35	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.32	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.35	2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	----	0.43			
1,2,3,7,8,9-HxCDD	ND	----	0.41			
Total HxCDD	ND	----	0.35			
1,2,3,4,6,7,8-HpCDF	ND	----	0.32	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.39	Equivalence: 0.0083 ng/Kg		
Total HpCDF	0.34	----	0.32 J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	----	0.65	0.31 JI			
Total HpCDD	ND	----	0.31			
OCDF	ND	----	0.99			
OCDD	5.8	----	0.87 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

I = Isotope ratio out of specification

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P6-3-4-062024		
Lab Sample ID	10697605016		
Filename	U240706A_10		
Injected By	JRH		
Total Amount Extracted	13.8 g	Matrix	SOLID
% Moisture	16.9	Dilution	NA
Dry Weight Extracted	11.5 g	Collected	06/20/2024 14:36
ICAL ID	U240423	Received	06/22/2024 09:00
CCal Filename(s)	U240706A_02	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113598	Analyzed	07/06/2024 18:41

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.19	2,3,7,8-TCDF-13C	2.00	91
Total TCDF	ND	----	0.19	2,3,7,8-TCDD-13C	2.00	70
				1,2,3,7,8-PeCDF-13C	2.00	96
2,3,7,8-TCDD	ND	----	0.17	2,3,4,7,8-PeCDF-13C	2.00	104
Total TCDD	ND	----	0.17	1,2,3,7,8-PeCDD-13C	2.00	100
				1,2,3,4,7,8-HxCDF-13C	2.00	89
1,2,3,7,8-PeCDF	ND	----	0.20	1,2,3,6,7,8-HxCDF-13C	2.00	87
2,3,4,7,8-PeCDF	ND	----	0.18	2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	ND	----	0.18	1,2,3,7,8,9-HxCDF-13C	2.00	82
				1,2,3,4,7,8-HxCDD-13C	2.00	64
1,2,3,7,8-PeCDD	ND	----	0.18	1,2,3,6,7,8-HxCDD-13C	2.00	82
Total PeCDD	ND	----	0.18	1,2,3,4,6,7,8-HpCDF-13C	2.00	71
				1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	ND	----	0.34	1,2,3,4,6,7,8-HpCDD-13C	2.00	80
1,2,3,6,7,8-HxCDF	ND	----	0.35	OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	ND	----	0.30			
1,2,3,7,8,9-HxCDF	ND	----	0.34	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.30	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.33	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	----	0.41			
1,2,3,7,8,9-HxCDD	ND	----	0.39			
Total HxCDD	ND	----	0.33			
1,2,3,4,6,7,8-HpCDF	ND	----	0.30	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.38	Equivalence: 0.0069 ng/Kg		
Total HpCDF	ND	----	0.30	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.54	----	0.29 J			
Total HpCDD	1.1	----	0.29 J			
OCDF	ND	----	0.95			
OCDD	5.1	----	0.83 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

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J = Estimated value

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P7-3-4-062124		
Lab Sample ID	10697605019		
Filename	U240706A_11		
Injected By	JRH		
Total Amount Extracted	13.0 g	Matrix	SOLID
% Moisture	54.8	Dilution	NA
Dry Weight Extracted	5.86 g	Collected	06/21/2024 09:05
ICAL ID	U240423	Received	06/22/2024 09:00
CCal Filename(s)	U240706A_02	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113598	Analyzed	07/06/2024 19:29

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	1.0	----	0.38	J	2,3,7,8-TCDF-13C	2.00	68
Total TCDF	13	----	0.38		2,3,7,8-TCDD-13C	2.00	62
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	----	0.33		2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	2.6	----	0.33	B	1,2,3,7,8-PeCDD-13C	2.00	73
					1,2,3,4,7,8-HxCDF-13C	2.00	68
1,2,3,7,8-PeCDF	ND	----	0.39		1,2,3,6,7,8-HxCDF-13C	2.00	66
2,3,4,7,8-PeCDF	ND	----	0.35		2,3,4,6,7,8-HxCDF-13C	2.00	62
Total PeCDF	1.6	----	0.35	J	1,2,3,7,8,9-HxCDF-13C	2.00	66
					1,2,3,4,7,8-HxCDD-13C	2.00	52
1,2,3,7,8-PeCDD	ND	----	0.34		1,2,3,6,7,8-HxCDD-13C	2.00	59
Total PeCDD	0.89	----	0.34	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	53
					1,2,3,4,7,8,9-HpCDF-13C	2.00	56
1,2,3,4,7,8-HxCDF	ND	----	0.67		1,2,3,4,6,7,8-HpCDD-13C	2.00	62
1,2,3,6,7,8-HxCDF	ND	----	0.69		OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	ND	----	0.59				
1,2,3,7,8,9-HxCDF	ND	----	0.66		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.59		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.65		2,3,7,8-TCDD-37Cl4	0.20	67
1,2,3,6,7,8-HxCDD	ND	----	0.80				
1,2,3,7,8,9-HxCDD	ND	----	0.77				
Total HxCDD	1.9	----	0.65	J			
1,2,3,4,6,7,8-HpCDF	0.74	----	0.60	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.74		Equivalence: 0.14 ng/Kg		
Total HpCDF	0.74	----	0.60	J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	1.9	----	0.58	J			
Total HpCDD	3.7	----	0.58	J			
OCDF	ND	----	1.9				
OCDD	18	----	1.6				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

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J = Estimated value

B = Less than 10x higher than method blank level

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P8-3-4-062124		
Lab Sample ID	10697605022		
Filename	U240706A_12		
Injected By	JRH		
Total Amount Extracted	13.6 g	Matrix	SOLID
% Moisture	25.5	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	06/21/2024 08:45
ICAL ID	U240423	Received	06/22/2024 09:00
CCal Filename(s)	U240706A_02	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113598	Analyzed	07/06/2024 20:16

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.44	----	0.22	J	2,3,7,8-TCDF-13C	2.00	97
Total TCDF	6.1	----	0.22		2,3,7,8-TCDD-13C	2.00	84
					1,2,3,7,8-PeCDF-13C	2.00	101
2,3,7,8-TCDD	ND	----	0.19		2,3,4,7,8-PeCDF-13C	2.00	108
Total TCDD	1.2	----	0.19	B	1,2,3,7,8-PeCDD-13C	2.00	103
					1,2,3,4,7,8-HxCDF-13C	2.00	93
1,2,3,7,8-PeCDF	ND	----	0.22		1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	ND	----	0.20		2,3,4,6,7,8-HxCDF-13C	2.00	90
Total PeCDF	0.43	----	0.20	J	1,2,3,7,8,9-HxCDF-13C	2.00	93
					1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	ND	----	0.20		1,2,3,6,7,8-HxCDD-13C	2.00	87
Total PeCDD	0.63	----	0.20	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	79
					1,2,3,4,7,8,9-HpCDF-13C	2.00	85
1,2,3,4,7,8-HxCDF	ND	----	0.39		1,2,3,4,6,7,8-HpCDD-13C	2.00	92
1,2,3,6,7,8-HxCDF	ND	----	0.40		OCDD-13C	4.00	79
2,3,4,6,7,8-HxCDF	ND	----	0.34				
1,2,3,7,8,9-HxCDF	ND	----	0.38		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.34		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.38		2,3,7,8-TCDD-37Cl4	0.20	91
1,2,3,6,7,8-HxCDD	ND	----	0.46				
1,2,3,7,8,9-HxCDD	ND	----	0.44				
Total HxCDD	0.91	----	0.38	J			
1,2,3,4,6,7,8-HpCDF	ND	----	0.34		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.42		Equivalence: 0.054 ng/Kg		
Total HpCDF	ND	----	0.34		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	----	0.72	0.33	JI			
Total HpCDD	ND	----	0.33				
OCDF	ND	----	1.1				
OCDD	8.7	----	0.94	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

B = Less than 10x higher than method blank level

I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P9-1-2-062124		
Lab Sample ID	10697605025		
Filename	U240706A_13		
Injected By	JRH		
Total Amount Extracted	13.1 g	Matrix	SOLID
% Moisture	6.6	Dilution	NA
Dry Weight Extracted	12.3 g	Collected	06/21/2024 08:22
ICAL ID	U240423	Received	06/22/2024 09:00
CCal Filename(s)	U240706A_02	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113598	Analyzed	07/06/2024 21:04

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.25	----	0.18	J	2,3,7,8-TCDF-13C	2.00	92
Total TCDF	2.9	----	0.18		2,3,7,8-TCDD-13C	2.00	69
					1,2,3,7,8-PeCDF-13C	2.00	91
2,3,7,8-TCDD	ND	----	0.16		2,3,4,7,8-PeCDF-13C	2.00	98
Total TCDD	3.0	----	0.16	B	1,2,3,7,8-PeCDD-13C	2.00	97
					1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	ND	----	0.19		1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	0.24	----	0.17	J	2,3,4,6,7,8-HxCDF-13C	2.00	85
Total PeCDF	3.9	----	0.17	J	1,2,3,7,8,9-HxCDF-13C	2.00	84
					1,2,3,4,7,8-HxCDD-13C	2.00	63
1,2,3,7,8-PeCDD	----	0.26	0.16	JI	1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	2.6	----	0.16	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	73
					1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	0.41	----	0.32	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	84
1,2,3,6,7,8-HxCDF	0.58	----	0.33	J	OCDD-13C	4.00	74
2,3,4,6,7,8-HxCDF	0.70	----	0.28	J			
1,2,3,7,8,9-HxCDF	ND	----	0.31		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	11	----	0.28		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.0	----	0.31	J	2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	2.4	----	0.38	J			
1,2,3,7,8,9-HxCDD	2.0	----	0.37	J			
Total HxCDD	18	----	0.31				
1,2,3,4,6,7,8-HpCDF	11	----	0.29		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	0.79	----	0.35	J	Equivalence: 2.2 ng/Kg		
Total HpCDF	25	----	0.29		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	69	----	0.28				
Total HpCDD	120	----	0.28				
OCDF	20	----	0.89				
OCDD	890	----	0.78				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

B = Less than 10x higher than method blank level

I = Isotope ratio out of specification

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P9-3-4-062124		
Lab Sample ID	10697605026		
Filename	L241016A_13		
Injected By	JF		
Total Amount Extracted	12.8 g	Matrix	SOLID
% Moisture	8.7	Dilution	NA
Dry Weight Extracted	11.7 g	Collected	06/21/2024 08:22
ICAL ID	L240918	Received	06/22/2024 09:00
CCal Filename(s)	L241016A_02	Extracted	10/14/2024 14:00
Method Blank ID	BLANK-115186	Analyzed	10/16/2024 20:23

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.26	----	0.23	J	2,3,7,8-TCDF-13C	2.00	77
Total TCDF	1.8	----	0.23		2,3,7,8-TCDD-13C	2.00	69
					1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	----	0.22		2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	0.77	----	0.22	J	1,2,3,7,8-PeCDD-13C	2.00	83
					1,2,3,4,7,8-HxCDF-13C	2.00	80
1,2,3,7,8-PeCDF	ND	----	0.53		1,2,3,6,7,8-HxCDF-13C	2.00	80
2,3,4,7,8-PeCDF	ND	----	0.80		2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	ND	----	0.53		1,2,3,7,8,9-HxCDF-13C	2.00	70
					1,2,3,4,7,8-HxCDD-13C	2.00	74
1,2,3,7,8-PeCDD	ND	----	0.70		1,2,3,6,7,8-HxCDD-13C	2.00	82
Total PeCDD	ND	----	0.70		1,2,3,4,6,7,8-HpCDF-13C	2.00	62
					1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	ND	----	0.82		1,2,3,4,6,7,8-HpCDD-13C	2.00	66
1,2,3,6,7,8-HxCDF	ND	----	0.87		OCDD-13C	4.00	36
2,3,4,6,7,8-HxCDF	ND	----	0.76				
1,2,3,7,8,9-HxCDF	ND	----	0.79		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.76		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.4		2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	ND	----	0.79				
1,2,3,7,8,9-HxCDD	ND	----	1.1				
Total HxCDD	ND	----	0.79				
1,2,3,4,6,7,8-HpCDF	ND	----	0.64		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.87		Equivalence: 0.037 ng/Kg		
Total HpCDF	ND	----	0.64		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.80	----	0.53	J			
Total HpCDD	0.80	----	0.53	J			
OCDF	ND	----	2.0				
OCDD	8.6	----	1.7				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

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J = Estimated value

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P10-1-2-062024		
Lab Sample ID	10697605028		
Filename	U240706A_14		
Injected By	JRH		
Total Amount Extracted	13.6 g	Matrix	SOLID
% Moisture	10.5	Dilution	NA
Dry Weight Extracted	12.2 g	Collected	06/20/2024 17:14
ICAL ID	U240423	Received	06/22/2024 09:00
CCal Filename(s)	U240706A_02	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113598	Analyzed	07/06/2024 21:52

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.56	----	0.18	J	2,3,7,8-TCDF-13C	2.00	75
Total TCDF	12	----	0.18		2,3,7,8-TCDD-13C	2.00	64
					1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	----	0.16		2,3,4,7,8-PeCDF-13C	2.00	83
Total TCDD	7.8	----	0.16		1,2,3,7,8-PeCDD-13C	2.00	79
					1,2,3,4,7,8-HxCDF-13C	2.00	71
1,2,3,7,8-PeCDF	0.24	----	0.19	J	1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	0.63	----	0.17	J	2,3,4,6,7,8-HxCDF-13C	2.00	69
Total PeCDF	8.4	----	0.17		1,2,3,7,8,9-HxCDF-13C	2.00	71
					1,2,3,4,7,8-HxCDD-13C	2.00	54
1,2,3,7,8-PeCDD	0.32	----	0.17	J	1,2,3,6,7,8-HxCDD-13C	2.00	65
Total PeCDD	3.9	----	0.17	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	62
					1,2,3,4,7,8,9-HpCDF-13C	2.00	64
1,2,3,4,7,8-HxCDF	ND	----	0.32		1,2,3,4,6,7,8-HpCDD-13C	2.00	69
1,2,3,6,7,8-HxCDF	ND	----	0.33		OCDD-13C	4.00	60
2,3,4,6,7,8-HxCDF	0.32	----	0.29	J			
1,2,3,7,8,9-HxCDF	ND	----	0.32		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	3.1	----	0.29	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.33	----	0.31	J	2,3,7,8-TCDD-37Cl4	0.20	74
1,2,3,6,7,8-HxCDD	0.59	----	0.39	J			
1,2,3,7,8,9-HxCDD	ND	----	0.37				
Total HxCDD	9.2	----	0.31				
1,2,3,4,6,7,8-HpCDF	1.1	----	0.29	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.35		Equivalence: 0.84 ng/Kg		
Total HpCDF	3.1	----	0.29	J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	9.8	----	0.28				
Total HpCDD	21	----	0.28				
OCDF	2.9	----	0.90	J			
OCDD	94	----	0.79				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P10-3-4-062024		
Lab Sample ID	10697605029		
Filename	L241016A_14		
Injected By	JF		
Total Amount Extracted	15.3 g	Matrix	SOLID
% Moisture	10.0	Dilution	NA
Dry Weight Extracted	13.8 g	Collected	06/20/2024 17:14
ICAL ID	L240918	Received	06/22/2024 09:00
CCal Filename(s)	L241016A_02	Extracted	10/14/2024 14:00
Method Blank ID	BLANK-115186	Analyzed	10/16/2024 21:08

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.19	2,3,7,8-TCDF-13C	2.00	78
Total TCDF	0.19	----	0.19 J	2,3,7,8-TCDD-13C	2.00	69
				1,2,3,7,8-PeCDF-13C	2.00	73
2,3,7,8-TCDD	ND	----	0.18	2,3,4,7,8-PeCDF-13C	2.00	73
Total TCDD	ND	----	0.18	1,2,3,7,8-PeCDD-13C	2.00	78
				1,2,3,4,7,8-HxCDF-13C	2.00	74
1,2,3,7,8-PeCDF	ND	----	0.45	1,2,3,6,7,8-HxCDF-13C	2.00	73
2,3,4,7,8-PeCDF	ND	----	0.68	2,3,4,6,7,8-HxCDF-13C	2.00	63
Total PeCDF	1.5	----	0.45 J	1,2,3,7,8,9-HxCDF-13C	2.00	70
				1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	ND	----	0.60	1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD	1.7	----	0.60 J	1,2,3,4,6,7,8-HpCDF-13C	2.00	54
				1,2,3,4,7,8,9-HpCDF-13C	2.00	50
1,2,3,4,7,8-HxCDF	ND	----	0.69	1,2,3,4,6,7,8-HpCDD-13C	2.00	56
1,2,3,6,7,8-HxCDF	ND	----	0.74	OCDD-13C	4.00	32
2,3,4,6,7,8-HxCDF	ND	----	0.65			
1,2,3,7,8,9-HxCDF	ND	----	0.67	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	8.5	----	0.65	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.2	2,3,7,8-TCDD-37Cl4	0.20	74
1,2,3,6,7,8-HxCDD	3.6	----	0.67 J			
1,2,3,7,8,9-HxCDD	ND	----	0.90			
Total HxCDD	31	----	0.67			
1,2,3,4,6,7,8-HpCDF	21	----	0.54	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	1.3	----	0.74 J	Equivalence: 2.5 ng/Kg		
Total HpCDF	85	----	0.54	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	130	----	0.45			
Total HpCDD	270	----	0.45			
OCDF	100	----	1.7			
OCDD	1800	----	1.4			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P11-7-8-062024		
Lab Sample ID	10697605031		
Filename	U240706A_15		
Injected By	JRH		
Total Amount Extracted	15.0 g	Matrix	SOLID
% Moisture	19.7	Dilution	NA
Dry Weight Extracted	12.0 g	Collected	06/20/2024 16:45
ICAL ID	U240423	Received	06/22/2024 09:00
CCal Filename(s)	U240706A_02	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113598	Analyzed	07/06/2024 22:39

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.18	2,3,7,8-TCDF-13C	2.00	82
Total TCDF	ND	----	0.18	2,3,7,8-TCDD-13C	2.00	74
				1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	ND	----	0.16	2,3,4,7,8-PeCDF-13C	2.00	90
Total TCDD	ND	----	0.16	1,2,3,7,8-PeCDD-13C	2.00	85
				1,2,3,4,7,8-HxCDF-13C	2.00	78
1,2,3,7,8-PeCDF	ND	----	0.19	1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	ND	----	0.17	2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	0.23	----	0.17 J	1,2,3,7,8,9-HxCDF-13C	2.00	81
				1,2,3,4,7,8-HxCDD-13C	2.00	62
1,2,3,7,8-PeCDD	ND	----	0.17	1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	----	0.17	1,2,3,4,6,7,8-HpCDF-13C	2.00	70
				1,2,3,4,7,8,9-HpCDF-13C	2.00	74
1,2,3,4,7,8-HxCDF	ND	----	0.33	1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	ND	----	0.33	OCDD-13C	4.00	73
2,3,4,6,7,8-HxCDF	ND	----	0.29			
1,2,3,7,8,9-HxCDF	ND	----	0.32	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.39	----	0.29 J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.32	2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	ND	----	0.39			
1,2,3,7,8,9-HxCDD	ND	----	0.38			
Total HxCDD	ND	----	0.32			
1,2,3,4,6,7,8-HpCDF	0.87	----	0.29 J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.36	Equivalence: 0.067 ng/Kg		
Total HpCDF	3.0	----	0.29 J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	4.2	----	0.28			
Total HpCDD	7.1	----	0.28			
OCDF	3.9	----	0.91 J			
OCDD	48	----	0.80			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P12-5-6-062024		
Lab Sample ID	10697605034		
Filename	U240706A_16		
Injected By	JRH		
Total Amount Extracted	12.4 g	Matrix	SOLID
% Moisture	19.3	Dilution	NA
Dry Weight Extracted	9.97 g	Collected	06/20/2024 16:15
ICAL ID	U240423	Received	06/22/2024 09:00
CCal Filename(s)	U240706A_02	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113598	Analyzed	07/06/2024 23:27

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.22		2,3,7,8-TCDF-13C	2.00	69
Total TCDF	0.51	----	0.22	J	2,3,7,8-TCDD-13C	2.00	56
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	----	0.19		2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	0.36	----	0.19	BJ	1,2,3,7,8-PeCDD-13C	2.00	73
					1,2,3,4,7,8-HxCDF-13C	2.00	63
1,2,3,7,8-PeCDF	ND	----	0.23		1,2,3,6,7,8-HxCDF-13C	2.00	62
2,3,4,7,8-PeCDF	ND	----	0.21		2,3,4,6,7,8-HxCDF-13C	2.00	62
Total PeCDF	1.7	----	0.21	J	1,2,3,7,8,9-HxCDF-13C	2.00	63
					1,2,3,4,7,8-HxCDD-13C	2.00	51
1,2,3,7,8-PeCDD	0.25	----	0.20	J	1,2,3,6,7,8-HxCDD-13C	2.00	60
Total PeCDD	0.49	----	0.20	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	52
					1,2,3,4,7,8,9-HpCDF-13C	2.00	54
1,2,3,4,7,8-HxCDF	ND	----	0.39		1,2,3,4,6,7,8-HpCDD-13C	2.00	60
1,2,3,6,7,8-HxCDF	ND	----	0.40		OCDD-13C	4.00	52
2,3,4,6,7,8-HxCDF	0.37	----	0.35	J			
1,2,3,7,8,9-HxCDF	ND	----	0.39		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	6.2	----	0.35		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	----	0.44	0.38	JI	2,3,7,8-TCDD-37Cl4	0.20	62
1,2,3,6,7,8-HxCDD	1.0	----	0.47	J			
1,2,3,7,8,9-HxCDD	0.61	----	0.45	J			
Total HxCDD	8.2	----	0.38				
1,2,3,4,6,7,8-HpCDF	4.9	----	0.35	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.43		Equivalence: 0.82 ng/Kg		
Total HpCDF	14	----	0.35		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	21	----	0.34				
Total HpCDD	40	----	0.34				
OCDF	13	----	1.1				
OCDD	220	----	0.96				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

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J = Estimated value

B = Less than 10x higher than method blank level

I = Isotope ratio out of specification

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P12-7-8-062024		
Lab Sample ID	10697605035		
Filename	L241016A_15		
Injected By	JF		
Total Amount Extracted	13.7 g	Matrix	SOLID
% Moisture	17.4	Dilution	NA
Dry Weight Extracted	11.3 g	Collected	06/20/2024 16:15
ICAL ID	L240918	Received	06/22/2024 09:00
CCal Filename(s)	L241016A_02	Extracted	10/14/2024 14:00
Method Blank ID	BLANK-115186	Analyzed	10/16/2024 21:54

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.23	2,3,7,8-TCDF-13C	2.00	73
Total TCDF	ND	----	0.23	2,3,7,8-TCDD-13C	2.00	66
				1,2,3,7,8-PeCDF-13C	2.00	71
2,3,7,8-TCDD	ND	----	0.22	2,3,4,7,8-PeCDF-13C	2.00	72
Total TCDD	0.24	----	0.22 J	1,2,3,7,8-PeCDD-13C	2.00	78
				1,2,3,4,7,8-HxCDF-13C	2.00	74
1,2,3,7,8-PeCDF	ND	----	0.55	1,2,3,6,7,8-HxCDF-13C	2.00	73
2,3,4,7,8-PeCDF	ND	----	0.83	2,3,4,6,7,8-HxCDF-13C	2.00	65
Total PeCDF	ND	----	0.55	1,2,3,7,8,9-HxCDF-13C	2.00	66
				1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	ND	----	0.73	1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD	ND	----	0.73	1,2,3,4,6,7,8-HpCDF-13C	2.00	55
				1,2,3,4,7,8,9-HpCDF-13C	2.00	53
1,2,3,4,7,8-HxCDF	ND	----	0.85	1,2,3,4,6,7,8-HpCDD-13C	2.00	60
1,2,3,6,7,8-HxCDF	ND	----	0.90	OCDD-13C	4.00	32
2,3,4,6,7,8-HxCDF	ND	----	0.79			
1,2,3,7,8,9-HxCDF	ND	----	0.81	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.79	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.4	2,3,7,8-TCDD-37Cl4	0.20	67
1,2,3,6,7,8-HxCDD	ND	----	0.82			
1,2,3,7,8,9-HxCDD	ND	----	1.1			
Total HxCDD	2.5	----	0.82 J			
1,2,3,4,6,7,8-HpCDF	1.8	----	0.66 J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.90	Equivalence: 0.13 ng/Kg		
Total HpCDF	1.8	----	0.66 J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	7.8	----	0.55			
Total HpCDD	15	----	0.55			
OCDF	7.3	----	2.0 J			
OCDD	91	----	1.8			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P12-9-10-062024		
Lab Sample ID	10697605036		
Filename	L241016A_16		
Injected By	JF		
Total Amount Extracted	19.7 g	Matrix	SOLID
% Moisture	20.2	Dilution	NA
Dry Weight Extracted	15.7 g	Collected	06/20/2024 16:15
ICAL ID	L240918	Received	06/22/2024 09:00
CCal Filename(s)	L241016A_02	Extracted	10/14/2024 14:00
Method Blank ID	BLANK-115186	Analyzed	10/16/2024 22:39

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.17	2,3,7,8-TCDF-13C	2.00	73
Total TCDF	3.7	----	0.17	2,3,7,8-TCDD-13C	2.00	66
				1,2,3,7,8-PeCDF-13C	2.00	70
2,3,7,8-TCDD	ND	----	0.16	2,3,4,7,8-PeCDF-13C	2.00	70
Total TCDD	4.1	----	0.16	1,2,3,7,8-PeCDD-13C	2.00	75
				1,2,3,4,7,8-HxCDF-13C	2.00	71
1,2,3,7,8-PeCDF	ND	----	0.40	1,2,3,6,7,8-HxCDF-13C	2.00	73
2,3,4,7,8-PeCDF	ND	----	0.60	2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF	32	----	0.40	1,2,3,7,8,9-HxCDF-13C	2.00	66
				1,2,3,4,7,8-HxCDD-13C	2.00	65
1,2,3,7,8-PeCDD	ND	----	0.53	1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	28	----	0.53	1,2,3,4,6,7,8-HpCDF-13C	2.00	49
				1,2,3,4,7,8-HpCDF-13C	2.00	49
1,2,3,4,7,8-HxCDF	1.3	----	0.61 J	1,2,3,4,6,7,8-HpCDD-13C	2.00	56
1,2,3,6,7,8-HxCDF	1.4	----	0.65 J	OCDD-13C	4.00	31
2,3,4,6,7,8-HxCDF	2.0	----	0.57 J			
1,2,3,7,8,9-HxCDF	ND	----	0.59	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	42	----	0.57	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.1	----	1.0 J	2,3,7,8-TCDD-37Cl4	0.20	74
1,2,3,6,7,8-HxCDD	6.6	----	0.59			
1,2,3,7,8,9-HxCDD	1.7	----	0.79 J			
Total HxCDD	170	----	0.59			
1,2,3,4,6,7,8-HpCDF	110	----	0.48	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	4.1	----	0.65	Equivalence: 7.2 ng/Kg		
Total HpCDF	370	----	0.48	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	310	----	0.40			
Total HpCDD	620	----	0.40			
OCDF	520	----	1.5			
OCDD	4500	----	1.3			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P13-3-4-062024		
Lab Sample ID	10697605037		
Filename	L240706A_05		
Injected By	JRH		
Total Amount Extracted	13.3 g	Matrix	SOLID
% Moisture	14.0	Dilution	NA
Dry Weight Extracted	11.4 g	Collected	06/20/2024 14:56
ICAL ID	L240703	Received	06/22/2024 09:00
CCal Filename(s)	L240705B_15	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113598	Analyzed	07/06/2024 14:28

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.23	----	0.19	J	2,3,7,8-TCDF-13C	2.00	77
Total TCDF	3.0	----	0.19		2,3,7,8-TCDD-13C	2.00	66
					1,2,3,7,8-PeCDF-13C	2.00	70
2,3,7,8-TCDD	ND	----	0.17		2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD	0.25	----	0.17	BJ	1,2,3,7,8-PeCDD-13C	2.00	74
					1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	----	0.20		1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	----	0.18		2,3,4,6,7,8-HxCDF-13C	2.00	72
Total PeCDF	0.72	----	0.18	J	1,2,3,7,8,9-HxCDF-13C	2.00	71
					1,2,3,4,7,8-HxCDD-13C	2.00	70
1,2,3,7,8-PeCDD	ND	----	0.18		1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	ND	----	0.18		1,2,3,4,6,7,8-HpCDF-13C	2.00	69
					1,2,3,4,7,8,9-HpCDF-13C	2.00	78
1,2,3,4,7,8-HxCDF	ND	----	0.34		1,2,3,4,6,7,8-HpCDD-13C	2.00	69
1,2,3,6,7,8-HxCDF	ND	----	0.35		OCDD-13C	4.00	47
2,3,4,6,7,8-HxCDF	ND	----	0.30				
1,2,3,7,8,9-HxCDF	ND	----	0.34		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.30		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.33		2,3,7,8-TCDD-37Cl4	0.20	72
1,2,3,6,7,8-HxCDD	ND	----	0.41				
1,2,3,7,8,9-HxCDD	ND	----	0.40				
Total HxCDD	0.54	----	0.33	J			
1,2,3,4,6,7,8-HpCDF	----	0.77	0.31	Jl	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.38		Equivalence: 0.096 ng/Kg		
Total HpCDF	1.9	----	0.31	J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	4.7	----	0.30				
Total HpCDD	8.8	----	0.30				
OCDF	4.1	----	0.95	J			
OCDD	58	----	0.84				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

B = Less than 10x higher than method blank level

I = Isotope ratio out of specification

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P14-1-2-062024		
Lab Sample ID	10697605040		
Filename	L240715A_03		
Injected By	JF		
Total Amount Extracted	13.4 g	Matrix	SOLID
% Moisture	13.4	Dilution	NA
Dry Weight Extracted	11.6 g	Collected	06/20/2024 13:16
ICAL ID	L240703	Received	06/22/2024 09:00
CCal Filename(s)	L240714A_18	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113598	Analyzed	07/15/2024 03:04

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	3.4	----	0.72	A	2,3,7,8-TCDF-13C	2.00	26
Total TCDF	9.9	----	0.72		2,3,7,8-TCDD-13C	2.00	25
					1,2,3,7,8-PeCDF-13C	2.00	34
2,3,7,8-TCDD	ND	----	0.87	A	2,3,4,7,8-PeCDF-13C	2.00	34
Total TCDD	24	----	0.87		1,2,3,7,8-PeCDD-13C	2.00	37
					1,2,3,4,7,8-HxCDF-13C	2.00	37
1,2,3,7,8-PeCDF	----	1.9	0.53	JIA	1,2,3,6,7,8-HxCDF-13C	2.00	30
2,3,4,7,8-PeCDF	2.1	----	0.44	JA	2,3,4,6,7,8-HxCDF-13C	2.00	26 R
Total PeCDF	7.0	----	0.44		1,2,3,7,8,9-HxCDF-13C	2.00	29
					1,2,3,4,7,8-HxCDD-13C	2.00	36
1,2,3,7,8-PeCDD	2.9	----	0.34	JA	1,2,3,6,7,8-HxCDD-13C	2.00	29
Total PeCDD	72	----	0.34		1,2,3,4,6,7,8-HpCDF-13C	2.00	24 R
					1,2,3,4,7,8-HpCDF-13C	2.00	48
1,2,3,4,7,8-HxCDF	1.4	----	0.34	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	40
1,2,3,6,7,8-HxCDF	1.6	----	0.35	J	OCDD-13C	4.00	22
2,3,4,6,7,8-HxCDF	1.7	----	0.43	JA			
1,2,3,7,8,9-HxCDF	ND	----	0.53	A	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	14	----	0.34		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	3.2	----	0.33	J	2,3,7,8-TCDD-37Cl4	0.20	43
1,2,3,6,7,8-HxCDD	4.9	----	0.41				
1,2,3,7,8,9-HxCDD	3.8	----	0.39	J			
Total HxCDD	140	----	0.33				
1,2,3,4,6,7,8-HpCDF	5.2	----	0.50	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.37		Equivalence: 6.0 ng/Kg		
Total HpCDF	7.7	----	0.37		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	30	----	0.38	A			
Total HpCDD	59	----	0.38				
OCDF	8.4	----	0.94	J			
OCDD	83	----	0.83				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

A = Reporting Limit based on signal to noise (EDL)

R = Recovery outside target range

I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P14-3-4-062024		
Lab Sample ID	10697605041		
Filename	U240730B_08		
Injected By	SMT		
Total Amount Extracted	20.8 g	Matrix	SOLID
% Moisture	22.1	Dilution	NA
Dry Weight Extracted	16.2 g	Collected	06/20/2024 13:16
ICAL ID	U240423	Received	06/22/2024 09:00
CCal Filename(s)	U240730B_02	Extracted	07/25/2024 14:00
Method Blank ID	BLANK-113956	Analyzed	07/31/2024 03:25

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.16	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	ND	----	0.16	2,3,7,8-TCDD-13C	2.00	70
				1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	----	0.16	2,3,4,7,8-PeCDF-13C	2.00	73
Total TCDD	ND	----	0.16	1,2,3,7,8-PeCDD-13C	2.00	76
				1,2,3,4,7,8-HxCDF-13C	2.00	80
1,2,3,7,8-PeCDF	ND	----	0.38	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	----	0.58	2,3,4,6,7,8-HxCDF-13C	2.00	74
Total PeCDF	ND	----	0.38	1,2,3,7,8,9-HxCDF-13C	2.00	68
				1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	ND	----	0.51	1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	ND	----	0.51	1,2,3,4,6,7,8-HpCDF-13C	2.00	55
				1,2,3,4,7,8,9-HpCDF-13C	2.00	53
1,2,3,4,7,8-HxCDF	ND	----	0.59	1,2,3,4,6,7,8-HpCDD-13C	2.00	62
1,2,3,6,7,8-HxCDF	ND	----	0.63	OCDD-13C	4.00	42
2,3,4,6,7,8-HxCDF	ND	----	0.55			
1,2,3,7,8,9-HxCDF	ND	----	0.57	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.55	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.99	2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	ND	----	0.57			
1,2,3,7,8,9-HxCDD	ND	----	0.76			
Total HxCDD	ND	----	0.57			
1,2,3,4,6,7,8-HpCDF	ND	----	0.46	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.63	Equivalence: 0.016 ng/Kg		
Total HpCDF	ND	----	0.46	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	----	1.3	0.38 JI			
Total HpCDD	1.6	----	0.38 J			
OCDF	ND	----	1.4			
OCDD	13	----	1.2			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

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I = Isotope ratio out of specification

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P15-1-2-062024		
Lab Sample ID	10697605043		
Filename	L240709A_10		
Injected By	SMT		
Total Amount Extracted	11.2 g	Matrix	SOLID
% Moisture	15.7	Dilution	5
Dry Weight Extracted	9.40 g	Collected	06/20/2024 12:50
ICAL ID	L240703	Received	06/22/2024 09:00
CCal Filename(s)	L240708A_19	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113598	Analyzed	07/09/2024 08:32

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	3.0	----	1.2 D		2,3,7,8-TCDF-13C	2.00	58 D
Total TCDF	70	----	1.2 D		2,3,7,8-TCDD-13C	2.00	60 D
					1,2,3,7,8-PeCDF-13C	2.00	64 D
2,3,7,8-TCDD	ND	----	1.0 D		2,3,4,7,8-PeCDF-13C	2.00	57 D
Total TCDD	68	----	1.0 D		1,2,3,7,8-PeCDD-13C	2.00	65 D
					1,2,3,4,7,8-HxCDF-13C	2.00	69 D
1,2,3,7,8-PeCDF	----	1.4	1.2 JID		1,2,3,6,7,8-HxCDF-13C	2.00	64 D
2,3,4,7,8-PeCDF	----	1.5	1.1 JID		2,3,4,6,7,8-HxCDF-13C	2.00	47 D
Total PeCDF	9.7	----	1.1 JD		1,2,3,7,8,9-HxCDF-13C	2.00	29 D
					1,2,3,4,7,8-HxCDD-13C	2.00	45 D
1,2,3,7,8-PeCDD	ND	----	1.1 D		1,2,3,6,7,8-HxCDD-13C	2.00	58 D
Total PeCDD	37	----	1.1 D		1,2,3,4,6,7,8-HpCDF-13C	2.00	44 D
					1,2,3,4,7,8,9-HpCDF-13C	2.00	45 D
1,2,3,4,7,8-HxCDF	ND	----	2.1 D		1,2,3,4,6,7,8-HpCDD-13C	2.00	44 D
1,2,3,6,7,8-HxCDF	ND	----	2.1 D		OCDD-13C	4.00	22 D
2,3,4,6,7,8-HxCDF	ND	----	1.8 D				
1,2,3,7,8,9-HxCDF	ND	----	2.0 D		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	7.8	----	1.8 JD		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	2.0 D		2,3,7,8-TCDD-37Cl4	0.20	78 D
1,2,3,6,7,8-HxCDD	ND	----	2.5 D				
1,2,3,7,8,9-HxCDD	ND	----	2.4 D				
Total HxCDD	60	----	2.0 D				
1,2,3,4,6,7,8-HpCDF	3.9	----	1.9 JD		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	2.3 D		Equivalence: 1.0 ng/Kg		
Total HpCDF	3.9	----	1.9 JD		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	17	----	1.8 D				
Total HpCDD	66	----	1.8 D				
OCDF	ND	----	5.8 D				
OCDD	63	----	5.1 D				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

I = Isotope ratio out of specification

D = Result obtained from analysis of diluted sample

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P16-1-2-062024		
Lab Sample ID	10697605046		
Filename	L240706A_06		
Injected By	JRH		
Total Amount Extracted	13.8 g	Matrix	SOLID
% Moisture	37.8	Dilution	NA
Dry Weight Extracted	8.61 g	Collected	06/20/2024 13:57
ICAL ID	L240703	Received	06/22/2024 09:00
CCal Filename(s)	L240705B_15	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113598	Analyzed	07/06/2024 15:13

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.40	----	0.26	J	2,3,7,8-TCDF-13C	2.00	81
Total TCDF	5.8	----	0.26		2,3,7,8-TCDD-13C	2.00	78
					1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	ND	----	0.22		2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	3.9	----	0.22		1,2,3,7,8-PeCDD-13C	2.00	83
					1,2,3,4,7,8-HxCDF-13C	2.00	76
1,2,3,7,8-PeCDF	----	0.55	0.26	J	1,2,3,6,7,8-HxCDF-13C	2.00	75
2,3,4,7,8-PeCDF	0.26	----	0.24	J	2,3,4,6,7,8-HxCDF-13C	2.00	70
Total PeCDF	0.67	----	0.24	J	1,2,3,7,8,9-HxCDF-13C	2.00	58
					1,2,3,4,7,8-HxCDD-13C	2.00	68
1,2,3,7,8-PeCDD	ND	----	0.23		1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	1.9	----	0.23	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	68
					1,2,3,4,7,8,9-HpCDF-13C	2.00	78
1,2,3,4,7,8-HxCDF	ND	----	0.46		1,2,3,4,6,7,8-HpCDD-13C	2.00	72
1,2,3,6,7,8-HxCDF	ND	----	0.47		OCDD-13C	4.00	48
2,3,4,6,7,8-HxCDF	ND	----	0.40				
1,2,3,7,8,9-HxCDF	ND	----	0.45		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.40		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.44		2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	ND	----	0.54				
1,2,3,7,8,9-HxCDD	ND	----	0.53				
Total HxCDD	2.5	----	0.44	J			
1,2,3,4,6,7,8-HpCDF	1.2	----	0.41	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.50		Equivalence: 0.22 ng/Kg		
Total HpCDF	2.8	----	0.41	J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	5.4	----	0.39	J			
Total HpCDD	10	----	0.39				
OCDF	2.4	----	1.3	J			
OCDD	54	----	1.1				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P17-3-4-062024		
Lab Sample ID	10697605049		
Filename	L240709A_09		
Injected By	SMT		
Total Amount Extracted	13.8 g	Matrix	SOLID
% Moisture	21.3	Dilution	NA
Dry Weight Extracted	10.8 g	Collected	06/20/2024 15:27
ICAL ID	L240703	Received	06/22/2024 09:00
CCal Filename(s)	L240708A_19	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113598	Analyzed	07/09/2024 07:47

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.63	----	0.20 J		2,3,7,8-TCDF-13C	2.00	74
Total TCDF	10	----	0.20		2,3,7,8-TCDD-13C	2.00	65
					1,2,3,7,8-PeCDF-13C	2.00	68
2,3,7,8-TCDD	ND	----	0.18		2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD	2.6	----	0.18 B		1,2,3,7,8-PeCDD-13C	2.00	70
					1,2,3,4,7,8-HxCDF-13C	2.00	88
1,2,3,7,8-PeCDF	0.29	----	0.21 J		1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	----	0.20	0.19 JI		2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	1.8	----	0.19 J		1,2,3,7,8,9-HxCDF-13C	2.00	74
					1,2,3,4,7,8-HxCDD-13C	2.00	72
1,2,3,7,8-PeCDD	ND	----	0.19		1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	1.3	----	0.19 J		1,2,3,4,6,7,8-HpCDF-13C	2.00	63
					1,2,3,4,7,8,9-HpCDF-13C	2.00	66
1,2,3,4,7,8-HxCDF	ND	----	0.36		1,2,3,4,6,7,8-HpCDD-13C	2.00	60
1,2,3,6,7,8-HxCDF	ND	----	0.37		OCDD-13C	4.00	37
2,3,4,6,7,8-HxCDF	ND	----	0.32				
1,2,3,7,8,9-HxCDF	ND	----	0.35		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.33	----	0.32 J		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.35		2,3,7,8-TCDD-37Cl4	0.20	66
1,2,3,6,7,8-HxCDD	ND	----	0.43				
1,2,3,7,8,9-HxCDD	ND	----	0.42				
Total HxCDD	ND	----	0.35				
1,2,3,4,6,7,8-HpCDF	ND	----	0.32		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.40		Equivalence: 0.15 ng/Kg		
Total HpCDF	ND	----	0.32		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	1.1	----	0.31 J				
Total HpCDD	1.1	----	0.31 J				
OCDF	ND	----	1.0				
OCDD	13	----	0.88				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

B = Less than 10x higher than method blank level

I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P17-5-6-062024		
Lab Sample ID	10697605050		
Filename	L241016B_03		
Injected By	JF		
Total Amount Extracted	20.3 g	Matrix	SOLID
% Moisture	16.5	Dilution	NA
Dry Weight Extracted	17.0 g	Collected	06/20/2024 15:27
ICAL ID	L240918	Received	06/22/2024 09:00
CCal Filename(s)	L241016A_18	Extracted	10/14/2024 14:00
Method Blank ID	BLANK-115186	Analyzed	10/17/2024 02:26

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.16	2,3,7,8-TCDF-13C	2.00	57
Total TCDF	0.43	----	0.16 J	2,3,7,8-TCDD-13C	2.00	50
				1,2,3,7,8-PeCDF-13C	2.00	54
2,3,7,8-TCDD	ND	----	0.15	2,3,4,7,8-PeCDF-13C	2.00	54
Total TCDD	0.25	----	0.15 J	1,2,3,7,8-PeCDD-13C	2.00	58
				1,2,3,4,7,8-HxCDF-13C	2.00	58
1,2,3,7,8-PeCDF	ND	----	0.37	1,2,3,6,7,8-HxCDF-13C	2.00	56
2,3,4,7,8-PeCDF	ND	----	0.55	2,3,4,6,7,8-HxCDF-13C	2.00	52
Total PeCDF	0.68	----	0.37 J	1,2,3,7,8,9-HxCDF-13C	2.00	50
				1,2,3,4,7,8-HxCDD-13C	2.00	52
1,2,3,7,8-PeCDD	ND	----	0.49	1,2,3,6,7,8-HxCDD-13C	2.00	59
Total PeCDD	ND	----	0.49	1,2,3,4,6,7,8-HpCDF-13C	2.00	40
				1,2,3,4,7,8,9-HpCDF-13C	2.00	37
1,2,3,4,7,8-HxCDF	ND	----	0.56	1,2,3,4,6,7,8-HpCDD-13C	2.00	42
1,2,3,6,7,8-HxCDF	ND	----	0.60	OCDD-13C	4.00	22
2,3,4,6,7,8-HxCDF	ND	----	0.53			
1,2,3,7,8,9-HxCDF	ND	----	0.54	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1.1	----	0.53 J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.95	2,3,7,8-TCDD-37Cl4	0.20	53
1,2,3,6,7,8-HxCDD	ND	----	0.55			
1,2,3,7,8,9-HxCDD	ND	----	0.73			
Total HxCDD	0.85	----	0.55 J			
1,2,3,4,6,7,8-HpCDF	1.3	----	0.44 J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.60	Equivalence: 0.10 ng/Kg		
Total HpCDF	3.7	----	0.44	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	6.8	----	0.37			
Total HpCDD	13	----	0.37			
OCDF	2.4	----	1.4 J			
OCDD	72	----	1.2			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

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J = Estimated value

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P17-7-8-062024		
Lab Sample ID	10697605051		
Filename	L241016B_04		
Injected By	JF		
Total Amount Extracted	18.4 g	Matrix	SOLID
% Moisture	18.8	Dilution	NA
Dry Weight Extracted	15.0 g	Collected	06/20/2024 15:27
ICAL ID	L240918	Received	06/22/2024 09:00
CCal Filename(s)	L241016A_18	Extracted	10/14/2024 14:00
Method Blank ID	BLANK-115186	Analyzed	10/17/2024 03:12

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.18	2,3,7,8-TCDF-13C	2.00	92
Total TCDF	ND	----	0.18	2,3,7,8-TCDD-13C	2.00	81
				1,2,3,7,8-PeCDF-13C	2.00	88
2,3,7,8-TCDD	ND	----	0.17	2,3,4,7,8-PeCDF-13C	2.00	89
Total TCDD	ND	----	0.17	1,2,3,7,8-PeCDD-13C	2.00	96
				1,2,3,4,7,8-HxCDF-13C	2.00	90
1,2,3,7,8-PeCDF	ND	----	0.41	1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	ND	----	0.63	2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	ND	----	0.41	1,2,3,7,8,9-HxCDF-13C	2.00	83
				1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	ND	----	0.55	1,2,3,6,7,8-HxCDD-13C	2.00	95
Total PeCDD	ND	----	0.55	1,2,3,4,6,7,8-HpCDF-13C	2.00	66
				1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	ND	----	0.64	1,2,3,4,6,7,8-HpCDD-13C	2.00	69
1,2,3,6,7,8-HxCDF	ND	----	0.68	OCDD-13C	4.00	37
2,3,4,6,7,8-HxCDF	ND	----	0.60			
1,2,3,7,8,9-HxCDF	ND	----	0.61	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.60	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.1	2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	----	0.62			
1,2,3,7,8,9-HxCDD	ND	----	0.83			
Total HxCDD	ND	----	0.62			
1,2,3,4,6,7,8-HpCDF	ND	----	0.50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.68	Equivalence: 0.00039 ng/Kg		
Total HpCDF	ND	----	0.50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.42			
Total HpCDD	ND	----	0.42			
OCDF	ND	----	1.5			
OCDD	1.3	----	1.3 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

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NC = Not Calculated

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P18-7-8-061924		
Lab Sample ID	10697605052		
Filename	L240706A_08		
Injected By	JRH		
Total Amount Extracted	16.9 g	Matrix	SOLID
% Moisture	24.8	Dilution	NA
Dry Weight Extracted	12.7 g	Collected	06/19/2024 15:55
ICAL ID	L240703	Received	06/22/2024 09:00
CCal Filename(s)	L240705B_15	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113598	Analyzed	07/06/2024 16:43

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.93	----	0.17	2,3,7,8-TCDF-13C	2.00	60
Total TCDF	5.6	----	0.17	2,3,7,8-TCDD-13C	2.00	49
				1,2,3,7,8-PeCDF-13C	2.00	55
2,3,7,8-TCDD	ND	----	0.15	2,3,4,7,8-PeCDF-13C	2.00	59
Total TCDD	ND	----	0.15	1,2,3,7,8-PeCDD-13C	2.00	60
				1,2,3,4,7,8-HxCDF-13C	2.00	63
1,2,3,7,8-PeCDF	2.2	----	0.18 J	1,2,3,6,7,8-HxCDF-13C	2.00	61
2,3,4,7,8-PeCDF	4.6	----	0.16	2,3,4,6,7,8-HxCDF-13C	2.00	59
Total PeCDF	41	----	0.16	1,2,3,7,8,9-HxCDF-13C	2.00	56
				1,2,3,4,7,8-HxCDD-13C	2.00	54
1,2,3,7,8-PeCDD	ND	----	0.16	1,2,3,6,7,8-HxCDD-13C	2.00	63
Total PeCDD	0.50	----	0.16 J	1,2,3,4,6,7,8-HpCDF-13C	2.00	58
				1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	8.3	----	0.31	1,2,3,4,6,7,8-HpCDD-13C	2.00	57
1,2,3,6,7,8-HxCDF	1.9	----	0.32 J	OCDD-13C	4.00	47
2,3,4,6,7,8-HxCDF	3.4	----	0.27 J			
1,2,3,7,8,9-HxCDF	----	4.2	0.30 I	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	76	----	0.27	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.30	2,3,7,8-TCDD-37Cl4	0.20	55
1,2,3,6,7,8-HxCDD	17	----	0.37			
1,2,3,7,8,9-HxCDD	1.3	----	0.35 J			
Total HxCDD	50	----	0.30			
1,2,3,4,6,7,8-HpCDF	60	----	0.27	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	2.9	----	0.34 J	Equivalence: 12 ng/Kg		
Total HpCDF	63	----	0.27	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	460	----	0.27			
Total HpCDD	690	----	0.27			
OCDF	140	----	0.86			
OCDD	5700	----	0.75			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

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NC = Not Calculated

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I = Isotope ratio out of specification

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P18-9-10-061924		
Lab Sample ID	10697605053		
Filename	U240730B_09		
Injected By	SMT		
Total Amount Extracted	21.8 g	Matrix	SOLID
% Moisture	22.2	Dilution	NA
Dry Weight Extracted	16.9 g	Collected	06/19/2024 15:55
ICAL ID	U240423	Received	06/22/2024 09:00
CCal Filename(s)	U240730B_02	Extracted	07/25/2024 14:00
Method Blank ID	BLANK-113956	Analyzed	07/31/2024 04:13

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	12	----	0.16	2,3,7,8-TCDF-13C	2.00	92
Total TCDF	69	----	0.16	2,3,7,8-TCDD-13C	2.00	82
				1,2,3,7,8-PeCDF-13C	2.00	85
2,3,7,8-TCDD	ND	----	0.15	2,3,4,7,8-PeCDF-13C	2.00	83
Total TCDD	5.2	----	0.15	1,2,3,7,8-PeCDD-13C	2.00	88
				1,2,3,4,7,8-HxCDF-13C	2.00	96
1,2,3,7,8-PeCDF	33	----	0.37	1,2,3,6,7,8-HxCDF-13C	2.00	95
2,3,4,7,8-PeCDF	70	----	0.55	2,3,4,6,7,8-HxCDF-13C	2.00	93
Total PeCDF	660	----	0.37	1,2,3,7,8,9-HxCDF-13C	2.00	85
				1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	0.94	----	0.49 J	1,2,3,6,7,8-HxCDD-13C	2.00	95
Total PeCDD	13	----	0.49	1,2,3,4,6,7,8-HpCDF-13C	2.00	68
				1,2,3,4,7,8,9-HpCDF-13C	2.00	70
1,2,3,4,7,8-HxCDF	93	----	0.57	1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	28	----	0.60	OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	44	----	0.53			
1,2,3,7,8,9-HxCDF	53	----	0.54	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	2200	----	0.53	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.9	----	0.95 J	2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	260	----	0.55			
1,2,3,7,8,9-HxCDD	23	----	0.73			
Total HxCDD	810	----	0.55			
1,2,3,4,6,7,8-HpCDF	890	----	0.75 A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	54	----	0.95 A	Equivalence: 190 ng/Kg		
Total HpCDF	3000	----	0.75 E	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	6800	----	0.37 E			
Total HpCDD	12000	----	0.37 E			
OCDF	1800	----	1.4			
OCDD	130000	----	24 DN2			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

A = Reporting Limit based on signal to noise (EDL)

E = Exceeds calibration range

D = Result obtained from analysis of diluted sample

Nn = Value obtained from additional analysis

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P18-12-13-061924		
Lab Sample ID	10697605054		
Filename	U240818A_08		
Injected By	JRH		
Total Amount Extracted	16.3 g	Matrix	SOLID
% Moisture	22.4	Dilution	NA
Dry Weight Extracted	12.7 g	Collected	06/19/2024 15:55
ICAL ID	U240423	Received	06/22/2024 09:00
CCal Filename(s)	U240817A_18	Extracted	08/13/2024 14:00
Method Blank ID	BLANK-114231	Analyzed	08/18/2024 06:03

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.21	2,3,7,8-TCDF-13C	2.00	44
Total TCDF	ND	----	0.21	2,3,7,8-TCDD-13C	2.00	41
				1,2,3,7,8-PeCDF-13C	2.00	46
2,3,7,8-TCDD	ND	----	0.20	2,3,4,7,8-PeCDF-13C	2.00	49
Total TCDD	ND	----	0.20	1,2,3,7,8-PeCDD-13C	2.00	51
				1,2,3,4,7,8-HxCDF-13C	2.00	40
1,2,3,7,8-PeCDF	ND	----	0.49	1,2,3,6,7,8-HxCDF-13C	2.00	43
2,3,4,7,8-PeCDF	ND	----	0.74	2,3,4,6,7,8-HxCDF-13C	2.00	41
Total PeCDF	2.0	----	0.49 J	1,2,3,7,8,9-HxCDF-13C	2.00	40
				1,2,3,4,7,8-HxCDD-13C	2.00	37
1,2,3,7,8-PeCDD	ND	----	0.65	1,2,3,6,7,8-HxCDD-13C	2.00	43
Total PeCDD	ND	----	0.65	1,2,3,4,6,7,8-HpCDF-13C	2.00	33
				1,2,3,4,7,8,9-HpCDF-13C	2.00	35
1,2,3,4,7,8-HxCDF	ND	----	0.76	1,2,3,4,6,7,8-HpCDD-13C	2.00	42
1,2,3,6,7,8-HxCDF	ND	----	0.81	OCDD-13C	4.00	29
2,3,4,6,7,8-HxCDF	ND	----	0.71			
1,2,3,7,8,9-HxCDF	ND	----	0.73	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1.9	----	0.71 J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.3	2,3,7,8-TCDD-37Cl4	0.20	69
1,2,3,6,7,8-HxCDD	0.91	----	0.74 J			
1,2,3,7,8,9-HxCDD	ND	----	0.98			
Total HxCDD	0.91	----	0.74 J			
1,2,3,4,6,7,8-HpCDF	3.6	----	0.59 J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.81	Equivalence: 0.45 ng/Kg		
Total HpCDF	13	----	0.59	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	24	----	0.49			
Total HpCDD	40	----	0.49			
OCDF	7.2	----	1.8 J			
OCDD	280	----	1.6			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

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J = Estimated value

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P19-3-4-061924		
Lab Sample ID	10697605055		
Filename	L240706A_09		
Injected By	JRH		
Total Amount Extracted	13.6 g	Matrix	SOLID
% Moisture	24.7	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	06/19/2024 15:19
ICAL ID	L240703	Received	06/22/2024 09:00
CCal Filename(s)	L240705B_15	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113598	Analyzed	07/06/2024 17:28

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	----	0.24	0.22	PJ	2,3,7,8-TCDF-13C	2.00	82
Total TCDF	1.6	----	0.22		2,3,7,8-TCDD-13C	2.00	73
					1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	----	0.19		2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	0.55	----	0.19	BJ	1,2,3,7,8-PeCDD-13C	2.00	83
					1,2,3,4,7,8-HxCDF-13C	2.00	89
1,2,3,7,8-PeCDF	----	0.39	0.22	Jl	1,2,3,6,7,8-HxCDF-13C	2.00	89
2,3,4,7,8-PeCDF	ND	----	0.20		2,3,4,6,7,8-HxCDF-13C	2.00	85
Total PeCDF	ND	----	0.20		1,2,3,7,8,9-HxCDF-13C	2.00	83
					1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	ND	----	0.20		1,2,3,6,7,8-HxCDD-13C	2.00	92
Total PeCDD	ND	----	0.20		1,2,3,4,6,7,8-HpCDF-13C	2.00	84
					1,2,3,4,7,8,9-HpCDF-13C	2.00	95
1,2,3,4,7,8-HxCDF	ND	----	0.38		1,2,3,4,6,7,8-HpCDD-13C	2.00	85
1,2,3,6,7,8-HxCDF	ND	----	0.39		OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	ND	----	0.34				
1,2,3,7,8,9-HxCDF	ND	----	0.37		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.34		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.37		2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	ND	----	0.46				
1,2,3,7,8,9-HxCDD	ND	----	0.44				
Total HxCDD	ND	----	0.37				
1,2,3,4,6,7,8-HpCDF	ND	----	0.34		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.42		Equivalence: 0.080 ng/Kg		
Total HpCDF	0.35	----	0.34	J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	3.2	----	0.33	J			
Total HpCDD	7.3	----	0.33				
OCDF	ND	----	1.1				
OCDD	43	----	0.93				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

B = Less than 10x higher than method blank level

P = PCDE Interference

I = Isotope ratio out of specification

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P20-1-2-061924		
Lab Sample ID	10697605058		
Filename	U240708A_10		
Injected By	SMT		
Total Amount Extracted	12.5 g	Matrix	SOLID
% Moisture	5.2	Dilution	NA
Dry Weight Extracted	11.9 g	Collected	06/19/2024 16:50
ICAL ID	U240423	Received	06/22/2024 09:00
CCal Filename(s)	U240708A_02	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113600	Analyzed	07/08/2024 18:03

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.19	2,3,7,8-TCDF-13C	2.00	86
Total TCDF	2.0	----	0.19	2,3,7,8-TCDD-13C	2.00	69
				1,2,3,7,8-PeCDF-13C	2.00	95
2,3,7,8-TCDD	ND	----	0.16	2,3,4,7,8-PeCDF-13C	2.00	95
Total TCDD	1.0	----	0.16	1,2,3,7,8-PeCDD-13C	2.00	92
				1,2,3,4,7,8-HxCDF-13C	2.00	93
1,2,3,7,8-PeCDF	ND	----	0.19	1,2,3,6,7,8-HxCDF-13C	2.00	89
2,3,4,7,8-PeCDF	ND	----	0.17	2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	0.31	----	0.17 J	1,2,3,7,8,9-HxCDF-13C	2.00	81
				1,2,3,4,7,8-HxCDD-13C	2.00	53
1,2,3,7,8-PeCDD	ND	----	0.17	1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD	0.53	----	0.17 J	1,2,3,4,6,7,8-HpCDF-13C	2.00	67
				1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	ND	----	0.33	1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	ND	----	0.34	OCDD-13C	4.00	68
2,3,4,6,7,8-HxCDF	ND	----	0.29			
1,2,3,7,8,9-HxCDF	ND	----	0.32	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.33	----	0.29 J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.32	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	ND	----	0.39			
1,2,3,7,8,9-HxCDD	ND	----	0.38			
Total HxCDD	0.93	----	0.32 J			
1,2,3,4,6,7,8-HpCDF	0.51	----	0.29 J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.36	Equivalence: 0.031 ng/Kg		
Total HpCDF	1.3	----	0.29 J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	2.0	----	0.28 J			
Total HpCDD	3.4	----	0.28 J			
OCDF	0.95	----	0.92 J			
OCDD	19	----	0.80			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P21-1-2-061924		
Lab Sample ID	10697605061		
Filename	U240708A_11		
Injected By	SMT		
Total Amount Extracted	12.6 g	Matrix	SOLID
% Moisture	5.0	Dilution	NA
Dry Weight Extracted	12.0 g	Collected	06/19/2024 14:31
ICAL ID	U240423	Received	06/22/2024 09:00
CCal Filename(s)	U240708A_02	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113600	Analyzed	07/08/2024 18:51

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	----	0.28	0.18	J	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	2.9	----	0.18		2,3,7,8-TCDD-13C	2.00	67
					1,2,3,7,8-PeCDF-13C	2.00	85
2,3,7,8-TCDD	ND	----	0.16		2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	1.7	----	0.16		1,2,3,7,8-PeCDD-13C	2.00	78
					1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	----	0.19		1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	----	0.17		2,3,4,6,7,8-HxCDF-13C	2.00	70
Total PeCDF	0.85	----	0.17	J	1,2,3,7,8,9-HxCDF-13C	2.00	69
					1,2,3,4,7,8-HxCDD-13C	2.00	47
1,2,3,7,8-PeCDD	ND	----	0.17		1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	2.4	----	0.17	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	56
					1,2,3,4,7,8,9-HpCDF-13C	2.00	56
1,2,3,4,7,8-HxCDF	ND	----	0.33		1,2,3,4,6,7,8-HpCDD-13C	2.00	54
1,2,3,6,7,8-HxCDF	ND	----	0.34		OCDD-13C	4.00	56
2,3,4,6,7,8-HxCDF	ND	----	0.29				
1,2,3,7,8,9-HxCDF	ND	----	0.32		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.34	----	0.29	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.32		2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	ND	----	0.39				
1,2,3,7,8,9-HxCDD	ND	----	0.38				
Total HxCDD	1.7	----	0.32	J			
1,2,3,4,6,7,8-HpCDF	0.31	----	0.29	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.36		Equivalence: 0.042 ng/Kg		
Total HpCDF	0.31	----	0.29	J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.94	----	0.28	J			
Total HpCDD	0.94	----	0.28	J			
OCDF	ND	----	0.91				
OCDD	5.9	----	0.80	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

B = Less than 10x higher than method blank level

I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P22-1-2-061924		
Lab Sample ID	10697605064		
Filename	U240708A_12		
Injected By	SMT		
Total Amount Extracted	14.0 g	Matrix	SOLID
% Moisture	20.4	Dilution	NA
Dry Weight Extracted	11.2 g	Collected	06/19/2024 14:16
ICAL ID	U240423	Received	06/22/2024 09:00
CCal Filename(s)	U240708A_02	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113600	Analyzed	07/08/2024 19:39

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.40	----	0.20	J	2,3,7,8-TCDF-13C	2.00	78
Total TCDF	7.5	----	0.20		2,3,7,8-TCDD-13C	2.00	64
					1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	----	0.25	0.17	Jl	2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	18	----	0.17		1,2,3,7,8-PeCDD-13C	2.00	76
					1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	0.27	----	0.20	J	1,2,3,6,7,8-HxCDF-13C	2.00	76
2,3,4,7,8-PeCDF	----	0.26	0.18	Jl	2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF	3.2	----	0.18	J	1,2,3,7,8,9-HxCDF-13C	2.00	63
					1,2,3,4,7,8-HxCDD-13C	2.00	52
1,2,3,7,8-PeCDD	0.70	----	0.18	J	1,2,3,6,7,8-HxCDD-13C	2.00	67
Total PeCDD	22	----	0.18		1,2,3,4,6,7,8-HpCDF-13C	2.00	55
					1,2,3,4,7,8,9-HpCDF-13C	2.00	54
1,2,3,4,7,8-HxCDF	ND	----	0.35		1,2,3,4,6,7,8-HpCDD-13C	2.00	56
1,2,3,6,7,8-HxCDF	ND	----	0.36		OCDD-13C	4.00	55
2,3,4,6,7,8-HxCDF	ND	----	0.31				
1,2,3,7,8,9-HxCDF	ND	----	0.34		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1.3	----	0.31	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	----	0.80	0.34	Jl	2,3,7,8-TCDD-37Cl4	0.20	72
1,2,3,6,7,8-HxCDD	1.4	----	0.42	J			
1,2,3,7,8,9-HxCDD	0.90	----	0.40	J			
Total HxCDD	25	----	0.34				
1,2,3,4,6,7,8-HpCDF	0.89	----	0.31	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.39		Equivalence: 1.5 ng/Kg		
Total HpCDF	1.6	----	0.31	J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	11	----	0.30				
Total HpCDD	21	----	0.30				
OCDF	ND	----	0.98				
OCDD	56	----	0.86				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

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J = Estimated value

I = Isotope ratio out of specification

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P22-3-4-061924		
Lab Sample ID	10697605065		
Filename	L241016B_05		
Injected By	JF		
Total Amount Extracted	17.6 g	Matrix	SOLID
% Moisture	24.3	Dilution	NA
Dry Weight Extracted	13.3 g	Collected	06/19/2024 14:16
ICAL ID	L240918	Received	06/22/2024 09:00
CCal Filename(s)	L241016A_18	Extracted	10/14/2024 14:00
Method Blank ID	BLANK-115186	Analyzed	10/17/2024 03:57

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.20	2,3,7,8-TCDF-13C	2.00	85
Total TCDF	ND	----	0.20	2,3,7,8-TCDD-13C	2.00	75
				1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	ND	----	0.19	2,3,4,7,8-PeCDF-13C	2.00	83
Total TCDD	ND	----	0.19	1,2,3,7,8-PeCDD-13C	2.00	89
				1,2,3,4,7,8-HxCDF-13C	2.00	88
1,2,3,7,8-PeCDF	ND	----	0.47	1,2,3,6,7,8-HxCDF-13C	2.00	86
2,3,4,7,8-PeCDF	ND	----	0.70	2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	ND	----	0.47	1,2,3,7,8,9-HxCDF-13C	2.00	72
				1,2,3,4,7,8-HxCDD-13C	2.00	79
1,2,3,7,8-PeCDD	ND	----	0.62	1,2,3,6,7,8-HxCDD-13C	2.00	87
Total PeCDD	ND	----	0.62	1,2,3,4,6,7,8-HpCDF-13C	2.00	63
				1,2,3,4,7,8,9-HpCDF-13C	2.00	65
1,2,3,4,7,8-HxCDF	ND	----	0.72	1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	ND	----	0.76	OCDD-13C	4.00	38
2,3,4,6,7,8-HxCDF	ND	----	0.67			
1,2,3,7,8,9-HxCDF	ND	----	0.69	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.67	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.2	2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	ND	----	0.70			
1,2,3,7,8,9-HxCDD	ND	----	0.93			
Total HxCDD	ND	----	0.70			
1,2,3,4,6,7,8-HpCDF	ND	----	0.56	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.76	Equivalence: 0.018 ng/Kg		
Total HpCDF	0.83	----	0.56 J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	----	1.5	0.47 JI			
Total HpCDD	1.4	----	0.47 J			
OCDF	ND	----	1.7			
OCDD	12	----	1.5			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

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I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P22-5-6-061924		
Lab Sample ID	10697605066		
Filename	L241016B_06		
Injected By	JF		
Total Amount Extracted	18.7 g	Matrix	SOLID
% Moisture	22.4	Dilution	NA
Dry Weight Extracted	14.5 g	Collected	06/19/2024 14:16
ICAL ID	L240918	Received	06/22/2024 09:00
CCal Filename(s)	L241016A_18	Extracted	10/14/2024 14:00
Method Blank ID	BLANK-115186	Analyzed	10/17/2024 04:42

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.18	2,3,7,8-TCDF-13C	2.00	72
Total TCDF	0.98	----	0.18	2,3,7,8-TCDD-13C	2.00	64
				1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	----	0.17	2,3,4,7,8-PeCDF-13C	2.00	69
Total TCDD	0.24	----	0.17 J	1,2,3,7,8-PeCDD-13C	2.00	74
				1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	0.47	----	0.43 J	1,2,3,6,7,8-HxCDF-13C	2.00	73
2,3,4,7,8-PeCDF	1.7	----	0.65 J	2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF	9.1	----	0.43	1,2,3,7,8,9-HxCDF-13C	2.00	65
				1,2,3,4,7,8-HxCDD-13C	2.00	65
1,2,3,7,8-PeCDD	ND	----	0.57	1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	ND	----	0.57	1,2,3,4,6,7,8-HpCDF-13C	2.00	53
				1,2,3,4,7,8-HpCDF-13C	2.00	49
1,2,3,4,7,8-HxCDF	2.6	----	0.66 J	1,2,3,4,6,7,8-HpCDD-13C	2.00	56
1,2,3,6,7,8-HxCDF	ND	----	0.70	OCDD-13C	4.00	33
2,3,4,6,7,8-HxCDF	1.1	----	0.62 J			
1,2,3,7,8,9-HxCDF	1.3	----	0.63 J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	22	----	0.62	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.1	2,3,7,8-TCDD-37Cl4	0.20	71
1,2,3,6,7,8-HxCDD	4.7	----	0.64			
1,2,3,7,8,9-HxCDD	ND	----	0.85			
Total HxCDD	17	----	0.64			
1,2,3,4,6,7,8-HpCDF	26	----	0.51	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	1.6	----	0.70 J	Equivalence: 4.9 ng/Kg		
Total HpCDF	110	----	0.51	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	200	----	0.43			
Total HpCDD	380	----	0.43			
OCDF	94	----	1.6			
OCDD	3500	----	1.4			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P23-5-6-061924		
Lab Sample ID	10697605067		
Filename	U240708A_13		
Injected By	SMT		
Total Amount Extracted	17.3 g	Matrix	SOLID
% Moisture	18.0	Dilution	NA
Dry Weight Extracted	14.2 g	Collected	06/19/2024 14:05
ICAL ID	U240423	Received	06/22/2024 09:00
CCal Filename(s)	U240708A_02	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113600	Analyzed	07/08/2024 20:26

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	2.3	----	0.16		2,3,7,8-TCDF-13C	2.00	72
Total TCDF	34	----	0.16		2,3,7,8-TCDD-13C	2.00	62
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	----	0.14		2,3,4,7,8-PeCDF-13C	2.00	50
Total TCDD	4.6	----	0.14		1,2,3,7,8-PeCDD-13C	2.00	48
					1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	----	5.9	0.16	P	1,2,3,6,7,8-HxCDF-13C	2.00	74
2,3,4,7,8-PeCDF	10	----	0.15		2,3,4,6,7,8-HxCDF-13C	2.00	61
Total PeCDF	120	----	0.15		1,2,3,7,8,9-HxCDF-13C	2.00	61
					1,2,3,4,7,8-HxCDD-13C	2.00	70
1,2,3,7,8-PeCDD	0.95	----	0.14	J	1,2,3,6,7,8-HxCDD-13C	2.00	69
Total PeCDD	15	----	0.14		1,2,3,4,6,7,8-HpCDF-13C	2.00	48
					1,2,3,4,7,8,9-HpCDF-13C	2.00	34
1,2,3,4,7,8-HxCDF	65	----	0.28		1,2,3,4,6,7,8-HpCDD-13C	2.00	46
1,2,3,6,7,8-HxCDF	9.9	----	0.28		OCDD-13C	4.00	32
2,3,4,6,7,8-HxCDF	18	----	0.24				
1,2,3,7,8,9-HxCDF	8.6	----	0.27		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	490	----	0.24		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	12	----	0.27		2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	270	----	0.33				
1,2,3,7,8,9-HxCDD	28	----	0.32				
Total HxCDD	1000	----	0.27				
1,2,3,4,6,7,8-HpCDF	1600	----	0.44	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	93	----	0.80	A	Equivalence: 220 ng/Kg		
Total HpCDF	1800	----	0.44		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	9100	----	0.36	EA			
Total HpCDD	21000	----	0.36	E			
OCDF	12000	----	2.3	EA			
OCDD	220000	----	6.7	EDN2			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

A = Reporting Limit based on signal to noise (EDL)

P = PCDE Interference

E = Exceeds calibration range

D = Result obtained from analysis of diluted sample

Nn = Value obtained from additional analysis

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P23-7-8-061924		
Lab Sample ID	10697605068		
Filename	L240731A_10		
Injected By	JF		
Total Amount Extracted	16.2 g	Matrix	SOLID
% Moisture	41.2	Dilution	NA
Dry Weight Extracted	9.55 g	Collected	06/19/2024 14:05
ICAL ID	L240716	Received	06/22/2024 09:00
CCal Filename(s)	L240730B_10	Extracted	07/25/2024 14:00
Method Blank ID	BLANK-113956	Analyzed	07/31/2024 16:27

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.28	2,3,7,8-TCDF-13C	2.00	86
Total TCDF	ND	----	0.28	2,3,7,8-TCDD-13C	2.00	86
				1,2,3,7,8-PeCDF-13C	2.00	92
2,3,7,8-TCDD	ND	----	0.27	2,3,4,7,8-PeCDF-13C	2.00	92
Total TCDD	ND	----	0.27	1,2,3,7,8-PeCDD-13C	2.00	112
				1,2,3,4,7,8-HxCDF-13C	2.00	97
1,2,3,7,8-PeCDF	ND	----	0.65	1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	ND	----	0.98	2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF	ND	----	0.65	1,2,3,7,8,9-HxCDF-13C	2.00	74
				1,2,3,4,7,8-HxCDD-13C	2.00	88
1,2,3,7,8-PeCDD	ND	----	0.87	1,2,3,6,7,8-HxCDD-13C	2.00	85
Total PeCDD	ND	----	0.87	1,2,3,4,6,7,8-HpCDF-13C	2.00	66
				1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	ND	----	1.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	ND	----	1.1	OCDD-13C	4.00	30
2,3,4,6,7,8-HxCDF	ND	----	0.94			
1,2,3,7,8,9-HxCDF	ND	----	0.96	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.94	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.7	2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	ND	----	0.98			
1,2,3,7,8,9-HxCDD	ND	----	1.3			
Total HxCDD	ND	----	0.98			
1,2,3,4,6,7,8-HpCDF	ND	----	0.78	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	1.1	Equivalence: 0.0019 ng/Kg		
Total HpCDF	ND	----	0.78	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.65			
Total HpCDD	0.85	----	0.65 J			
OCDF	ND	----	2.4			
OCDD	6.3	----	2.1 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P23-9-10-061924		
Lab Sample ID	10697605069		
Filename	L241016B_07		
Injected By	JF		
Total Amount Extracted	18.4 g	Matrix	SOLID
% Moisture	16.9	Dilution	NA
Dry Weight Extracted	15.3 g	Collected	06/19/2024 14:05
ICAL ID	L240918	Received	06/22/2024 09:00
CCal Filename(s)	L241016A_18	Extracted	10/14/2024 14:00
Method Blank ID	BLANK-115186	Analyzed	10/17/2024 05:28

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.17	2,3,7,8-TCDF-13C	2.00	74
Total TCDF	ND	----	0.17	2,3,7,8-TCDD-13C	2.00	65
				1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	----	0.17	2,3,4,7,8-PeCDF-13C	2.00	69
Total TCDD	ND	----	0.17	1,2,3,7,8-PeCDD-13C	2.00	70
				1,2,3,4,7,8-HxCDF-13C	2.00	69
1,2,3,7,8-PeCDF	ND	----	0.41	1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	ND	----	0.61	2,3,4,6,7,8-HxCDF-13C	2.00	65
Total PeCDF	ND	----	0.41	1,2,3,7,8,9-HxCDF-13C	2.00	64
				1,2,3,4,7,8-HxCDD-13C	2.00	63
1,2,3,7,8-PeCDD	ND	----	0.54	1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD	ND	----	0.54	1,2,3,4,6,7,8-HpCDF-13C	2.00	48
				1,2,3,4,7,8,9-HpCDF-13C	2.00	46
1,2,3,4,7,8-HxCDF	ND	----	0.63	1,2,3,4,6,7,8-HpCDD-13C	2.00	52
1,2,3,6,7,8-HxCDF	ND	----	0.67	OCDD-13C	4.00	27
2,3,4,6,7,8-HxCDF	ND	----	0.58			
1,2,3,7,8,9-HxCDF	ND	----	0.60	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.58	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.1	2,3,7,8-TCDD-37Cl4	0.20	72
1,2,3,6,7,8-HxCDD	ND	----	0.61			
1,2,3,7,8,9-HxCDD	ND	----	0.81			
Total HxCDD	ND	----	0.61			
1,2,3,4,6,7,8-HpCDF	ND	----	0.49	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.67	Equivalence: 0.0018 ng/Kg		
Total HpCDF	ND	----	0.49	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.41			
Total HpCDD	ND	----	0.41			
OCDF	ND	----	1.5			
OCDD	6.1	----	1.3 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P24-1-2-061924		
Lab Sample ID	10697605070		
Filename	L240712A_09		
Injected By	JF		
Total Amount Extracted	13.8 g	Matrix	SOLID
% Moisture	11.6	Dilution	NA
Dry Weight Extracted	12.2 g	Collected	06/19/2024 13:44
ICAL ID	L240703	Received	06/22/2024 09:00
CCal Filename(s)	L240712A_01	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113600	Analyzed	07/12/2024 14:35

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	1.4	----	0.18		2,3,7,8-TCDF-13C	2.00	79
Total TCDF	20	----	0.18		2,3,7,8-TCDD-13C	2.00	69
					1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	----	0.16		2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD	16	----	0.16		1,2,3,7,8-PeCDD-13C	2.00	78
					1,2,3,4,7,8-HxCDF-13C	2.00	84
1,2,3,7,8-PeCDF	----	1.7	0.19	PJ	1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	0.67	----	0.17	J	2,3,4,6,7,8-HxCDF-13C	2.00	72
Total PeCDF	6.3	----	0.17		1,2,3,7,8,9-HxCDF-13C	2.00	50
					1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	0.67	----	0.17	J	1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	10	----	0.17		1,2,3,4,6,7,8-HpCDF-13C	2.00	64
					1,2,3,4,7,8,9-HpCDF-13C	2.00	79
1,2,3,4,7,8-HxCDF	0.47	----	0.32	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	0.44	----	0.33	J	OCDD-13C	4.00	47
2,3,4,6,7,8-HxCDF	0.32	----	0.28	J			
1,2,3,7,8,9-HxCDF	ND	----	0.32		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	6.8	----	0.28		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	----	0.60	0.31	JI	2,3,7,8-TCDD-37Cl4	0.20	74
1,2,3,6,7,8-HxCDD	0.96	----	0.38	J			
1,2,3,7,8,9-HxCDD	0.62	----	0.37	J			
Total HxCDD	19	----	0.31				
1,2,3,4,6,7,8-HpCDF	3.4	----	0.29	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.35		Equivalence: 1.6 ng/Kg		
Total HpCDF	8.7	----	0.29		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	15	----	0.28				
Total HpCDD	29	----	0.28				
OCDF	7.6	----	0.89	J			
OCDD	120	----	0.78				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

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I = Isotope ratio out of specification

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P24-3-4-061924		
Lab Sample ID	10697605071		
Filename	L241016B_08		
Injected By	JF		
Total Amount Extracted	16.7 g	Matrix	SOLID
% Moisture	34.0	Dilution	NA
Dry Weight Extracted	11.0 g	Collected	06/19/2024 13:44
ICAL ID	L240918	Received	06/22/2024 09:00
CCal Filename(s)	L241016A_18	Extracted	10/14/2024 14:00
Method Blank ID	BLANK-115186	Analyzed	10/17/2024 06:13

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.24	2,3,7,8-TCDF-13C	2.00	79
Total TCDF	0.72	----	0.24 J	2,3,7,8-TCDD-13C	2.00	71
				1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	----	0.23	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	1.2	----	0.23	1,2,3,7,8-PeCDD-13C	2.00	79
				1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	----	0.56	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	----	0.85	2,3,4,6,7,8-HxCDF-13C	2.00	70
Total PeCDF	ND	----	0.56	1,2,3,7,8,9-HxCDF-13C	2.00	68
				1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	ND	----	0.75	1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD	ND	----	0.75	1,2,3,4,6,7,8-HpCDF-13C	2.00	56
				1,2,3,4,7,8,9-HpCDF-13C	2.00	58
1,2,3,4,7,8-HxCDF	ND	----	0.87	1,2,3,4,6,7,8-HpCDD-13C	2.00	63
1,2,3,6,7,8-HxCDF	ND	----	0.92	OCDD-13C	4.00	34
2,3,4,6,7,8-HxCDF	ND	----	0.81			
1,2,3,7,8,9-HxCDF	ND	----	0.83	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.81	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.5	2,3,7,8-TCDD-37Cl4	0.20	74
1,2,3,6,7,8-HxCDD	ND	----	0.84			
1,2,3,7,8,9-HxCDD	ND	----	1.1			
Total HxCDD	1.1	----	0.84 J			
1,2,3,4,6,7,8-HpCDF	ND	----	0.68	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.92	Equivalence: 0.029 ng/Kg		
Total HpCDF	ND	----	0.68	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	2.0	----	0.56 J			
Total HpCDD	5.8	----	0.56			
OCDF	ND	----	2.1			
OCDD	27	----	1.8			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

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J = Estimated value

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P24-5-6-061924		
Lab Sample ID	10697605072		
Filename	L241016B_09		
Injected By	JF		
Total Amount Extracted	20.0 g	Matrix	SOLID
% Moisture	19.6	Dilution	NA
Dry Weight Extracted	16.1 g	Collected	06/19/2024 13:44
ICAL ID	L240918	Received	06/22/2024 09:00
CCal Filename(s)	L241016A_18	Extracted	10/14/2024 14:00
Method Blank ID	BLANK-115186	Analyzed	10/17/2024 06:59

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	8.4	----	0.16		2,3,7,8-TCDF-13C	2.00	75
Total TCDF	72	----	0.16		2,3,7,8-TCDD-13C	2.00	70
					1,2,3,7,8-PeCDF-13C	2.00	60
2,3,7,8-TCDD	ND	----	0.16		2,3,4,7,8-PeCDF-13C	2.00	49
Total TCDD	5.5	----	0.16		1,2,3,7,8-PeCDD-13C	2.00	55
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	----	110	0.39	P	1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	----	89	0.58	P	2,3,4,6,7,8-HxCDF-13C	2.00	75
Total PeCDF	470	----	0.39		1,2,3,7,8,9-HxCDF-13C	2.00	64
					1,2,3,4,7,8-HxCDD-13C	2.00	73
1,2,3,7,8-PeCDD	----	1.1	0.51	JI	1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD	15	----	0.51		1,2,3,4,6,7,8-HpCDF-13C	2.00	46
					1,2,3,4,7,8-HpCDF-13C	2.00	27
1,2,3,4,7,8-HxCDF	110	----	0.64	A	1,2,3,4,6,7,8-HpCDD-13C	2.00	50
1,2,3,6,7,8-HxCDF	26	----	0.63		OCDD-13C	4.00	29
2,3,4,6,7,8-HxCDF	23	----	0.65	A			
1,2,3,7,8,9-HxCDF	58	----	1.1	A	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	3000	----	0.63	E	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	3.6	----	1.0		2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	270	----	0.58				
1,2,3,7,8,9-HxCDD	23	----	0.77				
Total HxCDD	870	----	0.58				
1,2,3,4,6,7,8-HpCDF	930	----	2.0	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	42	----	5.3	A	Equivalence: 170 ng/Kg		
Total HpCDF	4200	----	2.0	E	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	5700	----	0.39	E			
Total HpCDD	10000	----	0.39	E			
OCDF	2300	----	1.4				
OCDD	69000	----	1.2	E			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

A = Reporting Limit based on signal to noise (EDL)

P = PCDE Interference

E = Exceeds calibration range

I = Isotope ratio out of specification

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P25-1-2-061924		
Lab Sample ID	10697605073		
Filename	L240712A_10		
Injected By	JF		
Total Amount Extracted	13.9 g	Matrix	SOLID
% Moisture	8.4	Dilution	5
Dry Weight Extracted	12.7 g	Collected	06/19/2024 13:23
ICAL ID	L240703	Received	06/22/2024 09:00
CCal Filename(s)	L240712A_01	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113600	Analyzed	07/12/2024 15:20

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	3.6	----	0.88	DA	2,3,7,8-TCDF-13C	2.00	73 D
Total TCDF	31	----	0.88	D	2,3,7,8-TCDD-13C	2.00	64 D
					1,2,3,7,8-PeCDF-13C	2.00	71 D
2,3,7,8-TCDD	ND	----	0.94	DA	2,3,4,7,8-PeCDF-13C	2.00	71 D
Total TCDD	25	----	0.94	D	1,2,3,7,8-PeCDD-13C	2.00	77 D
					1,2,3,4,7,8-HxCDF-13C	2.00	78 D
1,2,3,7,8-PeCDF	1.6	----	0.89	JD	1,2,3,6,7,8-HxCDF-13C	2.00	74 D
2,3,4,7,8-PeCDF	2.6	----	0.81	JD	2,3,4,6,7,8-HxCDF-13C	2.00	71 D
Total PeCDF	21	----	0.81	D	1,2,3,7,8,9-HxCDF-13C	2.00	53 D
					1,2,3,4,7,8-HxCDD-13C	2.00	66 D
1,2,3,7,8-PeCDD	1.6	----	0.79	JD	1,2,3,6,7,8-HxCDD-13C	2.00	68 D
Total PeCDD	20	----	0.79	JD	1,2,3,4,6,7,8-HpCDF-13C	2.00	69 D
					1,2,3,4,7,8,9-HpCDF-13C	2.00	76 D
1,2,3,4,7,8-HxCDF	2.3	----	1.5	JD	1,2,3,4,6,7,8-HpCDD-13C	2.00	71 D
1,2,3,6,7,8-HxCDF	1.7	----	1.6	JD	OCDD-13C	4.00	45 D
2,3,4,6,7,8-HxCDF	1.7	----	1.4	JD			
1,2,3,7,8,9-HxCDF	ND	----	1.5	D	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	36	----	1.4	D	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.5	D	2,3,7,8-TCDD-37Cl4	0.20	69 D
1,2,3,6,7,8-HxCDD	4.4	----	1.8	D			
1,2,3,7,8,9-HxCDD	1.9	----	1.8	JD			
Total HxCDD	38	----	1.5	D			
1,2,3,4,6,7,8-HpCDF	18	----	1.4	D	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	1.7	D	Equivalence: 5.3 ng/Kg		
Total HpCDF	50	----	1.4	D	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	75	----	1.3	D			
Total HpCDD	120	----	1.3	D			
OCDF	53	----	4.3	D			
OCDD	1200	----	3.8	D			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

A = Reporting Limit based on signal to noise (EDL)

D = Result obtained from analysis of diluted sample

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P25-3-4-061924		
Lab Sample ID	10697605074		
Filename	L240731A_11		
Injected By	JF		
Total Amount Extracted	16.4 g	Matrix	SOLID
% Moisture	21.5	Dilution	5
Dry Weight Extracted	12.9 g	Collected	06/19/2024 13:23
ICAL ID	L240716	Received	06/22/2024 09:00
CCal Filename(s)	L240730B_10	Extracted	07/25/2024 14:00
Method Blank ID	BLANK-113956	Analyzed	07/31/2024 17:13

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	1.0 D		2,3,7,8-TCDF-13C	2.00	80 D
Total TCDF	ND	----	1.0 D		2,3,7,8-TCDD-13C	2.00	74 D
					1,2,3,7,8-PeCDF-13C	2.00	59 D
2,3,7,8-TCDD	ND	----	0.99 D		2,3,4,7,8-PeCDF-13C	2.00	73 D
Total TCDD	ND	----	0.99 D		1,2,3,7,8-PeCDD-13C	2.00	80 D
					1,2,3,4,7,8-HxCDF-13C	2.00	84 D
1,2,3,7,8-PeCDF	ND	----	2.4 D		1,2,3,6,7,8-HxCDF-13C	2.00	73 D
2,3,4,7,8-PeCDF	ND	----	3.6 D		2,3,4,6,7,8-HxCDF-13C	2.00	63 D
Total PeCDF	ND	----	2.4 D		1,2,3,7,8,9-HxCDF-13C	2.00	66 D
					1,2,3,4,7,8-HxCDD-13C	2.00	79 D
1,2,3,7,8-PeCDD	ND	----	3.2 D		1,2,3,6,7,8-HxCDD-13C	2.00	66 D
Total PeCDD	ND	----	3.2 D		1,2,3,4,6,7,8-HpCDF-13C	2.00	52 D
					1,2,3,4,7,8,9-HpCDF-13C	2.00	49 D
1,2,3,4,7,8-HxCDF	ND	----	3.7 D		1,2,3,4,6,7,8-HpCDD-13C	2.00	55 D
1,2,3,6,7,8-HxCDF	ND	----	4.0 D		OCDD-13C	4.00	26 D
2,3,4,6,7,8-HxCDF	ND	----	3.5 D				
1,2,3,7,8,9-HxCDF	ND	----	3.6 D		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	3.5 D		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	6.3 D		2,3,7,8-TCDD-37Cl4	0.20	82 D
1,2,3,6,7,8-HxCDD	ND	----	3.6 D				
1,2,3,7,8,9-HxCDD	ND	----	4.8 D				
Total HxCDD	ND	----	3.6 D				
1,2,3,4,6,7,8-HpCDF	ND	----	2.9 D		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	4.0 D		Equivalence: 0.11 ng/Kg		
Total HpCDF	ND	----	2.9 D		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	9.0	----	2.4 D				
Total HpCDD	27	----	2.4 D				
OCDF	ND	----	8.9 D				
OCDD	66	----	7.8 D				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

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D = Result obtained from analysis of diluted sample

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P26-1-2-061924		
Lab Sample ID	10697605076		
Filename	U240708A_16		
Injected By	SMT		
Total Amount Extracted	13.3 g	Matrix	SOLID
% Moisture	11.1	Dilution	NA
Dry Weight Extracted	11.8 g	Collected	06/19/2024 13:00
ICAL ID	U240423	Received	06/22/2024 09:00
CCal Filename(s)	U240708A_02	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113600	Analyzed	07/08/2024 22:50

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.76	A	2,3,7,8-TCDF-13C	2.00	87
Total TCDF	9.7	----	0.76		2,3,7,8-TCDD-13C	2.00	71
					1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	----	0.99	A	2,3,4,7,8-PeCDF-13C	2.00	69
Total TCDD	10.0	----	0.99		1,2,3,7,8-PeCDD-13C	2.00	74
					1,2,3,4,7,8-HxCDF-13C	2.00	84
1,2,3,7,8-PeCDF	1.1	----	0.20	JA	1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	1.8	----	0.17	J	2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	16	----	0.17		1,2,3,7,8,9-HxCDF-13C	2.00	35
					1,2,3,4,7,8-HxCDD-13C	2.00	58
1,2,3,7,8-PeCDD	0.99	----	0.17	J	1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	15	----	0.17		1,2,3,4,6,7,8-HpCDF-13C	2.00	66
					1,2,3,4,7,8,9-HpCDF-13C	2.00	57
1,2,3,4,7,8-HxCDF	4.0	----	0.33	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	57
1,2,3,6,7,8-HxCDF	2.0	----	0.34	J	OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	1.1	----	0.29	J			
1,2,3,7,8,9-HxCDF	----	1.1	0.33	JI	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	82	----	0.29		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	----	1.3	0.32	JI	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	5.9	----	0.40				
1,2,3,7,8,9-HxCDD	1.9	----	0.38	J			
Total HxCDD	47	----	0.32				
1,2,3,4,6,7,8-HpCDF	43	----	0.30		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	4.0	----	0.37	JA	Equivalence: 5.5 ng/Kg		
Total HpCDF	150	----	0.30		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	120	----	0.29				
Total HpCDD	270	----	0.29				
OCDF	130	----	0.92				
OCDD	1600	----	0.81				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

A = Reporting Limit based on signal to noise (EDL)

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P26-3-4-061924		
Lab Sample ID	10697605077		
Filename	L240731A_12		
Injected By	JF		
Total Amount Extracted	16.1 g	Matrix	SOLID
% Moisture	15.3	Dilution	5
Dry Weight Extracted	13.7 g	Collected	06/19/2024 13:00
ICAL ID	L240716	Received	06/22/2024 09:00
CCal Filename(s)	L240730B_10	Extracted	07/25/2024 14:00
Method Blank ID	BLANK-113956	Analyzed	07/31/2024 17:58

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	1.3	DA	2,3,7,8-TCDF-13C	2.00	79 D
Total TCDF	ND	----	1.3	D	2,3,7,8-TCDD-13C	2.00	79 D
					1,2,3,7,8-PeCDF-13C	2.00	59 D
2,3,7,8-TCDD	ND	----	1.1	DA	2,3,4,7,8-PeCDF-13C	2.00	70 D
Total TCDD	ND	----	1.1	D	1,2,3,7,8-PeCDD-13C	2.00	75 D
					1,2,3,4,7,8-HxCDF-13C	2.00	76 D
1,2,3,7,8-PeCDF	ND	----	2.3	D	1,2,3,6,7,8-HxCDF-13C	2.00	67 D
2,3,4,7,8-PeCDF	ND	----	3.4	D	2,3,4,6,7,8-HxCDF-13C	2.00	62 D
Total PeCDF	ND	----	2.3	D	1,2,3,7,8,9-HxCDF-13C	2.00	58 D
					1,2,3,4,7,8-HxCDD-13C	2.00	67 D
1,2,3,7,8-PeCDD	ND	----	3.0	D	1,2,3,6,7,8-HxCDD-13C	2.00	64 D
Total PeCDD	ND	----	3.0	D	1,2,3,4,6,7,8-HpCDF-13C	2.00	42 D
					1,2,3,4,7,8,9-HpCDF-13C	2.00	40 D
1,2,3,4,7,8-HxCDF	ND	----	3.5	D	1,2,3,4,6,7,8-HpCDD-13C	2.00	44 D
1,2,3,6,7,8-HxCDF	ND	----	3.7	D	OCDD-13C	4.00	20 D
2,3,4,6,7,8-HxCDF	ND	----	3.3	D			
1,2,3,7,8,9-HxCDF	ND	----	3.4	D	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	3.3	D	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	5.9	D	2,3,7,8-TCDD-37Cl4	0.20	75 D
1,2,3,6,7,8-HxCDD	ND	----	3.4	D			
1,2,3,7,8,9-HxCDD	ND	----	4.5	D			
Total HxCDD	ND	----	3.4	D			
1,2,3,4,6,7,8-HpCDF	ND	----	2.7	D	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	3.7	D	Equivalence: 0.0075 ng/Kg		
Total HpCDF	ND	----	2.7	D	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	2.3	DA			
Total HpCDD	13	----	2.3	JD			
OCDF	ND	----	8.4	D			
OCDD	25	----	7.3	D			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

A = Reporting Limit based on signal to noise (EDL)

D = Result obtained from analysis of diluted sample

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P127-6-7-061924		
Lab Sample ID	10697605079		
Filename	U240710A_09		
Injected By	SMT		
Total Amount Extracted	15.6 g	Matrix	SOLID
% Moisture	20.5	Dilution	NA
Dry Weight Extracted	12.4 g	Collected	06/19/2024 15:19
ICAL ID	U240423	Received	06/22/2024 09:00
CCal Filename(s)	U240710A_02	Extracted	07/01/2024 14:00
Method Blank ID	BLANK-113600	Analyzed	07/10/2024 14:31

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.18	2,3,7,8-TCDF-13C	2.00	73
Total TCDF	ND	----	0.18	2,3,7,8-TCDD-13C	2.00	62
				1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	ND	----	0.16	2,3,4,7,8-PeCDF-13C	2.00	89
Total TCDD	ND	----	0.16	1,2,3,7,8-PeCDD-13C	2.00	80
				1,2,3,4,7,8-HxCDF-13C	2.00	76
1,2,3,7,8-PeCDF	ND	----	0.18	1,2,3,6,7,8-HxCDF-13C	2.00	76
2,3,4,7,8-PeCDF	ND	----	0.17	2,3,4,6,7,8-HxCDF-13C	2.00	74
Total PeCDF	ND	----	0.17	1,2,3,7,8,9-HxCDF-13C	2.00	79
				1,2,3,4,7,8-HxCDD-13C	2.00	65
1,2,3,7,8-PeCDD	ND	----	0.16	1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	ND	----	0.16	1,2,3,4,6,7,8-HpCDF-13C	2.00	59
				1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	ND	----	0.32	1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	ND	----	0.32	OCDD-13C	4.00	40
2,3,4,6,7,8-HxCDF	ND	----	0.28			
1,2,3,7,8,9-HxCDF	ND	----	0.31	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.28	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.31	2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	ND	----	0.38			
1,2,3,7,8,9-HxCDD	ND	----	0.36			
Total HxCDD	ND	----	0.31			
1,2,3,4,6,7,8-HpCDF	0.35	----	0.28 J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.35	Equivalence: 0.038 ng/Kg		
Total HpCDF	1.2	----	0.28 J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	2.4	----	0.27 J			
Total HpCDD	4.3	----	0.27			
OCDF	----	1.0	0.88 JI			
OCDD	35	----	0.77			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

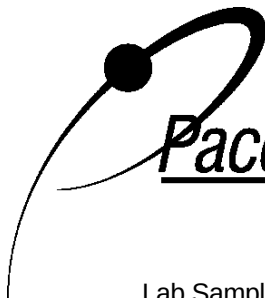
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J = Estimated value

I = Isotope ratio out of specification

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Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKSL	Matrix	Solid
Lab Sample ID	BLANK-113600	Dilution	NA
Filename	U240708A_09	Extracted	07/01/2024 14:00
Total Amount Extracted	10.2 g	Analyzed	07/08/2024 17:16
ICAL ID	U240423	Injected By	SMT
CCal Filename(s)	U240708A_02		

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.22	2,3,7,8-TCDF-13C	2.00	71
Total TCDF	ND	----	0.22	2,3,7,8-TCDD-13C	2.00	60
				1,2,3,7,8-PeCDF-13C	2.00	86
2,3,7,8-TCDD	ND	----	0.19	2,3,4,7,8-PeCDF-13C	2.00	98
Total TCDD	ND	----	0.19	1,2,3,7,8-PeCDD-13C	2.00	94
				1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	ND	----	0.22	1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	ND	----	0.20	2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	ND	----	0.20	1,2,3,7,8,9-HxCDF-13C	2.00	80
				1,2,3,4,7,8-HxCDD-13C	2.00	49
1,2,3,7,8-PeCDD	ND	----	0.20	1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	ND	----	0.20	1,2,3,4,6,7,8-HpCDF-13C	2.00	67
				1,2,3,4,7,8,9-HpCDF-13C	2.00	66
1,2,3,4,7,8-HxCDF	ND	----	0.39	1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	ND	----	0.40	OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	ND	----	0.34			
1,2,3,7,8,9-HxCDF	ND	----	0.38	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.34	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.38	2,3,7,8-TCDD-37Cl4	0.20	65
1,2,3,6,7,8-HxCDD	ND	----	0.46			
1,2,3,7,8,9-HxCDD	ND	----	0.44			
Total HxCDD	ND	----	0.38			
1,2,3,4,6,7,8-HpCDF	ND	----	0.34	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.42	Equivalence: 0.0050 ng/Kg		
Total HpCDF	ND	----	0.34	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	----	0.44	0.33 JI			
Total HpCDD	ND	----	0.33			
OCDF	ND	----	1.1			
OCDD	1.9	----	0.94 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

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J = Estimated value

I = Isotope ratio out of specification

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Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKSK	Matrix	Solid
Lab Sample ID	BLANK-113598	Dilution	NA
Filename	L240714A_14	Extracted	07/01/2024 14:00
Total Amount Extracted	10.2 g	Analyzed	07/14/2024 21:49
ICAL ID	L240703	Injected By	JF
CCal Filename(s)	L240714A_02		

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.22	2,3,7,8-TCDF-13C	2.00	72
Total TCDF	ND	----	0.22	2,3,7,8-TCDD-13C	2.00	60
				1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	----	0.19	2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	0.36	----	0.19 J	1,2,3,7,8-PeCDD-13C	2.00	85
				1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	----	0.22	1,2,3,6,7,8-HxCDF-13C	2.00	71
2,3,4,7,8-PeCDF	ND	----	0.20	2,3,4,6,7,8-HxCDF-13C	2.00	69
Total PeCDF	ND	----	0.20	1,2,3,7,8,9-HxCDF-13C	2.00	72
				1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	ND	----	0.20	1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	ND	----	0.20	1,2,3,4,6,7,8-HpCDF-13C	2.00	75
				1,2,3,4,7,8,9-HpCDF-13C	2.00	94
1,2,3,4,7,8-HxCDF	ND	----	0.38	1,2,3,4,6,7,8-HpCDD-13C	2.00	83
1,2,3,6,7,8-HxCDF	ND	----	0.39	OCDD-13C	4.00	60
2,3,4,6,7,8-HxCDF	ND	----	0.34			
1,2,3,7,8,9-HxCDF	ND	----	0.38	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.34	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.37	2,3,7,8-TCDD-37Cl4	0.20	63
1,2,3,6,7,8-HxCDD	ND	----	0.46			
1,2,3,7,8,9-HxCDD	ND	----	0.44			
Total HxCDD	ND	----	0.37			
1,2,3,4,6,7,8-HpCDF	ND	----	0.34	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.42	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	----	0.34	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.33			
Total HpCDD	ND	----	0.33			
OCDF	ND	----	1.1			
OCDD	ND	----	0.94			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.

J = Estimated value

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Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKWU	Matrix	Solid
Lab Sample ID	BLANK-113956	Dilution	NA
Filename	F240731B_11	Extracted	07/25/2024 14:00
Total Amount Extracted	10.0 g	Analyzed	07/31/2024 20:41
ICAL ID	F240604	Injected By	SMT
CCal Filename(s)	F240731B_01		

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.26	2,3,7,8-TCDF-13C	2.00	63
Total TCDF	ND	----	0.26	2,3,7,8-TCDD-13C	2.00	57
				1,2,3,7,8-PeCDF-13C	2.00	60
2,3,7,8-TCDD	ND	----	0.25	2,3,4,7,8-PeCDF-13C	2.00	60
Total TCDD	ND	----	0.25	1,2,3,7,8-PeCDD-13C	2.00	64
				1,2,3,4,7,8-HxCDF-13C	2.00	73
1,2,3,7,8-PeCDF	ND	----	0.62	1,2,3,6,7,8-HxCDF-13C	2.00	65
2,3,4,7,8-PeCDF	ND	----	0.94	2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF	ND	----	0.62	1,2,3,7,8,9-HxCDF-13C	2.00	63
				1,2,3,4,7,8-HxCDD-13C	2.00	62
1,2,3,7,8-PeCDD	ND	----	0.82	1,2,3,6,7,8-HxCDD-13C	2.00	67
Total PeCDD	ND	----	0.82	1,2,3,4,6,7,8-HpCDF-13C	2.00	55
				1,2,3,4,7,8,9-HpCDF-13C	2.00	55
1,2,3,4,7,8-HxCDF	ND	----	0.96	1,2,3,4,6,7,8-HpCDD-13C	2.00	63
1,2,3,6,7,8-HxCDF	ND	----	1.0	OCDD-13C	4.00	36
2,3,4,6,7,8-HxCDF	ND	----	0.89			
1,2,3,7,8,9-HxCDF	ND	----	0.92	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.89	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.6	2,3,7,8-TCDD-37Cl4	0.20	98
1,2,3,6,7,8-HxCDD	ND	----	0.93			
1,2,3,7,8,9-HxCDD	ND	----	1.2			
Total HxCDD	ND	----	0.93			
1,2,3,4,6,7,8-HpCDF	ND	----	0.75	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	1.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	----	0.75	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.62			
Total HpCDD	ND	----	0.62			
OCDF	ND	----	2.3			
OCDD	ND	----	2.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

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Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKAU	Matrix	Solid/Wipe
Lab Sample ID	BLANK-114231	Dilution	NA
Filename	U240817A_12	Extracted	08/13/2024 14:00
Total Amount Extracted	20.2 g	Analyzed	08/17/2024 18:56
ICAL ID	U240423	Injected By	JF
CCal Filename(s)	U240817A_03		

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.13	2,3,7,8-TCDF-13C	2.00	89
Total TCDF	ND	----	0.13	2,3,7,8-TCDD-13C	2.00	80
				1,2,3,7,8-PeCDF-13C	2.00	99
2,3,7,8-TCDD	ND	----	0.13	2,3,4,7,8-PeCDF-13C	2.00	111
Total TCDD	ND	----	0.13	1,2,3,7,8-PeCDD-13C	2.00	115
				1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	----	0.31	1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	ND	----	0.46	2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	ND	----	0.31	1,2,3,7,8,9-HxCDF-13C	2.00	79
				1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	ND	----	0.41	1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	ND	----	0.41	1,2,3,4,6,7,8-HpCDF-13C	2.00	70
				1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	ND	----	0.47	1,2,3,4,6,7,8-HpCDD-13C	2.00	86
1,2,3,6,7,8-HxCDF	ND	----	0.50	OCDD-13C	4.00	72
2,3,4,6,7,8-HxCDF	ND	----	0.44			
1,2,3,7,8,9-HxCDF	ND	----	0.45	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.44	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.80	2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	ND	----	0.46			
1,2,3,7,8,9-HxCDD	ND	----	0.61			
Total HxCDD	ND	----	0.46			
1,2,3,4,6,7,8-HpCDF	ND	----	0.37	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.50	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	----	0.37	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.31			
Total HpCDD	ND	----	0.31			
OCDF	ND	----	1.1			
OCDD	ND	----	0.99			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

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Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKOC	Matrix	Solid
Lab Sample ID	BLANK-115186	Dilution	NA
Filename	U241016A_06	Extracted	10/14/2024 14:00
Total Amount Extracted	20.2 g	Analyzed	10/16/2024 11:29
ICAL ID	U240423	Injected By	JF
CCal Filename(s)	U241016A_02		

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.13	2,3,7,8-TCDF-13C	2.00	95
Total TCDF	ND	----	0.13	2,3,7,8-TCDD-13C	2.00	83
				1,2,3,7,8-PeCDF-13C	2.00	96
2,3,7,8-TCDD	ND	----	0.13	2,3,4,7,8-PeCDF-13C	2.00	94
Total TCDD	ND	----	0.13	1,2,3,7,8-PeCDD-13C	2.00	101
				1,2,3,4,7,8-HxCDF-13C	2.00	92
1,2,3,7,8-PeCDF	ND	----	0.31	1,2,3,6,7,8-HxCDF-13C	2.00	98
2,3,4,7,8-PeCDF	ND	----	0.47	2,3,4,6,7,8-HxCDF-13C	2.00	92
Total PeCDF	ND	----	0.31	1,2,3,7,8,9-HxCDF-13C	2.00	85
				1,2,3,4,7,8-HxCDD-13C	2.00	60
1,2,3,7,8-PeCDD	ND	----	0.41	1,2,3,6,7,8-HxCDD-13C	2.00	93
Total PeCDD	ND	----	0.41	1,2,3,4,6,7,8-HpCDF-13C	2.00	74
				1,2,3,4,7,8,9-HpCDF-13C	2.00	73
1,2,3,4,7,8-HxCDF	ND	----	0.48	1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	ND	----	0.51	OCDD-13C	4.00	79
2,3,4,6,7,8-HxCDF	ND	----	0.44			
1,2,3,7,8,9-HxCDF	ND	----	0.46	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.44	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.80	2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	ND	----	0.46			
1,2,3,7,8,9-HxCDD	ND	----	0.62			
Total HxCDD	ND	----	0.46			
1,2,3,4,6,7,8-HpCDF	ND	----	0.37	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.51	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	----	0.37	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.31			
Total HpCDD	ND	----	0.31			
OCDF	ND	----	1.1			
OCDD	ND	----	0.99			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-113601	Matrix	Solid
Filename	U240708A_04	Dilution	NA
Total Amount Extracted	10.0 g	Extracted	07/01/2024 14:00
ICAL ID	U240423	Analyzed	07/08/2024 13:17
CCal Filename	U240708A_02	Injected By	SMT
Method Blank ID	BLANK-113600		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	11	7.5	15.8	108
2,3,7,8-TCDD	10	12	6.7	15.8	118
1,2,3,7,8-PeCDF	50	51	40.0	67.0	102
2,3,4,7,8-PeCDF	50	49	34.0	80.0	99
1,2,3,7,8-PeCDD	50	50	35.0	71.0	100
1,2,3,4,7,8-HxCDF	50	53	36.0	67.0	107
1,2,3,6,7,8-HxCDF	50	53	42.0	65.0	107
2,3,4,6,7,8-HxCDF	50	52	35.0	78.0	105
1,2,3,7,8,9-HxCDF	50	51	39.0	65.0	103
1,2,3,4,7,8-HxCDD	50	61	35.0	82.0	122
1,2,3,6,7,8-HxCDD	50	52	38.0	67.0	105
1,2,3,7,8,9-HxCDD	50	60	32.0	81.0	120
1,2,3,4,6,7,8-HpCDF	50	54	41.0	61.0	107
1,2,3,4,7,8,9-HpCDF	50	51	39.0	69.0	103
1,2,3,4,6,7,8-HpCDD	50	47	35.0	70.0	93
OCDF	100	110	63.0	170.0	110
OCDD	100	120	78.0	144.0	115
2,3,7,8-TCDD-37Cl4	10	7.2	3.1	19.1	72
2,3,7,8-TCDF-13C	100	78	22.0	152.0	78
2,3,7,8-TCDD-13C	100	65	20.0	175.0	65
1,2,3,7,8-PeCDF-13C	100	89	21.0	192.0	89
2,3,4,7,8-PeCDF-13C	100	86	13.0	328.0	86
1,2,3,7,8-PeCDD-13C	100	83	21.0	227.0	83
1,2,3,4,7,8-HxCDF-13C	100	87	19.0	202.0	87
1,2,3,6,7,8-HxCDF-13C	100	88	21.0	159.0	88
2,3,4,6,7,8-HxCDF-13C	100	80	22.0	176.0	80
1,2,3,7,8,9-HxCDF-13C	100	79	17.0	205.0	79
1,2,3,4,7,8-HxCDD-13C	100	50	21.0	193.0	50
1,2,3,6,7,8-HxCDD-13C	100	80	25.0	163.0	80
1,2,3,4,6,7,8-HpCDF-13C	100	64	21.0	158.0	64
1,2,3,4,7,8,9-HpCDF-13C	100	64	20.0	186.0	64
1,2,3,4,6,7,8-HpCDD-13C	100	71	26.0	166.0	71
OCDD-13C	200	140	26.0	397.0	68

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-113599	Matrix	Solid
Filename	U240715A_05	Dilution	NA
Total Amount Extracted	10.1 g	Extracted	07/01/2024 14:00
ICAL ID	U240423	Analyzed	07/15/2024 12:04
CCal Filename	U240715A_02	Injected By	SMT
Method Blank ID	BLANK-113598		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	12	7.5	15.8	122
2,3,7,8-TCDD	10	13	6.7	15.8	129
1,2,3,7,8-PeCDF	50	56	40.0	67.0	111
2,3,4,7,8-PeCDF	50	55	34.0	80.0	109
1,2,3,7,8-PeCDD	50	54	35.0	71.0	107
1,2,3,4,7,8-HxCDF	50	57	36.0	67.0	113
1,2,3,6,7,8-HxCDF	50	58	42.0	65.0	115
2,3,4,6,7,8-HxCDF	50	57	35.0	78.0	114
1,2,3,7,8,9-HxCDF	50	56	39.0	65.0	113
1,2,3,4,7,8-HxCDD	50	64	35.0	82.0	128
1,2,3,6,7,8-HxCDD	50	57	38.0	67.0	114
1,2,3,7,8,9-HxCDD	50	62	32.0	81.0	124
1,2,3,4,6,7,8-HpCDF	50	59	41.0	61.0	119
1,2,3,4,7,8,9-HpCDF	50	58	39.0	69.0	116
1,2,3,4,6,7,8-HpCDD	50	51	35.0	70.0	102
OCDF	100	120	63.0	170.0	116
OCDD	100	120	78.0	144.0	123
2,3,7,8-TCDD-37Cl4	10	5.9	3.1	19.1	59
2,3,7,8-TCDF-13C	100	79	22.0	152.0	79
2,3,7,8-TCDD-13C	100	53	20.0	175.0	53
1,2,3,7,8-PeCDF-13C	100	88	21.0	192.0	88
2,3,4,7,8-PeCDF-13C	100	90	13.0	328.0	90
1,2,3,7,8-PeCDD-13C	100	90	21.0	227.0	90
1,2,3,4,7,8-HxCDF-13C	100	83	19.0	202.0	83
1,2,3,6,7,8-HxCDF-13C	100	88	21.0	159.0	88
2,3,4,6,7,8-HxCDF-13C	100	80	22.0	176.0	80
1,2,3,7,8,9-HxCDF-13C	100	73	17.0	205.0	73
1,2,3,4,7,8-HxCDD-13C	100	55	21.0	193.0	55
1,2,3,6,7,8-HxCDD-13C	100	82	25.0	163.0	82
1,2,3,4,6,7,8-HpCDF-13C	100	67	21.0	158.0	67
1,2,3,4,7,8,9-HpCDF-13C	100	70	20.0	186.0	70
1,2,3,4,6,7,8-HpCDD-13C	100	78	26.0	166.0	78
OCDD-13C	200	140	26.0	397.0	70

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-113957	Matrix	Solid
Filename	L240730A_07	Dilution	NA
Total Amount Extracted	10.2 g	Extracted	07/25/2024 14:00
ICAL ID	L240716	Analyzed	07/30/2024 11:52
CCal Filename	L240730A_02	Injected By	SMT
Method Blank ID	BLANK-113956		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	9.7	7.5	15.8	97
2,3,7,8-TCDD	10	10	6.7	15.8	105
1,2,3,7,8-PeCDF	50	52	40.0	67.0	103
2,3,4,7,8-PeCDF	50	47	34.0	80.0	93
1,2,3,7,8-PeCDD	50	45	35.0	71.0	90
1,2,3,4,7,8-HxCDF	50	46	36.0	67.0	93
1,2,3,6,7,8-HxCDF	50	48	42.0	65.0	96
2,3,4,6,7,8-HxCDF	50	51	35.0	78.0	101
1,2,3,7,8,9-HxCDF	50	48	39.0	65.0	97
1,2,3,4,7,8-HxCDD	50	53	35.0	82.0	106
1,2,3,6,7,8-HxCDD	50	46	38.0	67.0	92
1,2,3,7,8,9-HxCDD	50	42	32.0	81.0	84
1,2,3,4,6,7,8-HpCDF	50	48	41.0	61.0	96
1,2,3,4,7,8,9-HpCDF	50	42	39.0	69.0	84
1,2,3,4,6,7,8-HpCDD	50	48	35.0	70.0	96
OCDF	100	94	63.0	170.0	94
OCDD	100	110	78.0	144.0	112
2,3,7,8-TCDD-37Cl4	10	7.9	3.1	19.1	79
2,3,7,8-TCDF-13C	100	80	22.0	152.0	80
2,3,7,8-TCDD-13C	100	76	20.0	175.0	76
1,2,3,7,8-PeCDF-13C	100	82	21.0	192.0	82
2,3,4,7,8-PeCDF-13C	100	90	13.0	328.0	90
1,2,3,7,8-PeCDD-13C	100	88	21.0	227.0	88
1,2,3,4,7,8-HxCDF-13C	100	99	19.0	202.0	99
1,2,3,6,7,8-HxCDF-13C	100	84	21.0	159.0	84
2,3,4,6,7,8-HxCDF-13C	100	87	22.0	176.0	87
1,2,3,7,8,9-HxCDF-13C	100	75	17.0	205.0	75
1,2,3,4,7,8-HxCDD-13C	100	95	21.0	193.0	95
1,2,3,6,7,8-HxCDD-13C	100	83	25.0	163.0	83
1,2,3,4,6,7,8-HpCDF-13C	100	74	21.0	158.0	74
1,2,3,4,7,8,9-HpCDF-13C	100	64	20.0	186.0	64
1,2,3,4,6,7,8-HpCDD-13C	100	85	26.0	166.0	85
OCDD-13C	200	130	26.0	397.0	66

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-114232	Matrix	Solid/Wipe
Filename	U240817A_08	Dilution	NA
Total Amount Extracted	20.1 g	Extracted	08/13/2024 14:00
ICAL ID	U240423	Analyzed	08/17/2024 15:45
CCal Filename	U240817A_03	Injected By	JF
Method Blank ID	BLANK-114231		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	9.9	7.5	15.8	99
2,3,7,8-TCDD	10	11	6.7	15.8	110
1,2,3,7,8-PeCDF	50	49	40.0	67.0	99
2,3,4,7,8-PeCDF	50	45	34.0	80.0	89
1,2,3,7,8-PeCDD	50	47	35.0	71.0	94
1,2,3,4,7,8-HxCDF	50	46	36.0	67.0	93
1,2,3,6,7,8-HxCDF	50	49	42.0	65.0	97
2,3,4,6,7,8-HxCDF	50	47	35.0	78.0	95
1,2,3,7,8,9-HxCDF	50	47	39.0	65.0	93
1,2,3,4,7,8-HxCDD	50	54	35.0	82.0	108
1,2,3,6,7,8-HxCDD	50	48	38.0	67.0	95
1,2,3,7,8,9-HxCDD	50	51	32.0	81.0	101
1,2,3,4,6,7,8-HpCDF	50	49	41.0	61.0	99
1,2,3,4,7,8,9-HpCDF	50	46	39.0	69.0	91
1,2,3,4,6,7,8-HpCDD	50	44	35.0	70.0	88
OCDF	100	97	63.0	170.0	97
OCDD	100	100	78.0	144.0	104
2,3,7,8-TCDD-37Cl4	10	6.8	3.1	19.1	68
2,3,7,8-TCDF-13C	100	74	22.0	152.0	74
2,3,7,8-TCDD-13C	100	65	20.0	175.0	65
1,2,3,7,8-PeCDF-13C	100	83	21.0	192.0	83
2,3,4,7,8-PeCDF-13C	100	90	13.0	328.0	90
1,2,3,7,8-PeCDD-13C	100	92	21.0	227.0	92
1,2,3,4,7,8-HxCDF-13C	100	68	19.0	202.0	68
1,2,3,6,7,8-HxCDF-13C	100	72	21.0	159.0	72
2,3,4,6,7,8-HxCDF-13C	100	70	22.0	176.0	70
1,2,3,7,8,9-HxCDF-13C	100	70	17.0	205.0	70
1,2,3,4,7,8-HxCDD-13C	100	60	21.0	193.0	60
1,2,3,6,7,8-HxCDD-13C	100	69	25.0	163.0	69
1,2,3,4,6,7,8-HpCDF-13C	100	58	21.0	158.0	58
1,2,3,4,7,8,9-HpCDF-13C	100	64	20.0	186.0	64
1,2,3,4,6,7,8-HpCDD-13C	100	71	26.0	166.0	71
OCDD-13C	200	120	26.0	397.0	62

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-115187	Matrix	Solid
Filename	L241016A_03	Dilution	NA
Total Amount Extracted	20.2 g	Extracted	10/14/2024 14:00
ICAL ID	L240918	Analyzed	10/16/2024 12:49
CCal Filename	L241016A_02	Injected By	JF
Method Blank ID	BLANK-115186		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	9.7	7.5	15.8	97
2,3,7,8-TCDD	10	11	6.7	15.8	109
1,2,3,7,8-PeCDF	50	53	40.0	67.0	106
2,3,4,7,8-PeCDF	50	51	34.0	80.0	102
1,2,3,7,8-PeCDD	50	47	35.0	71.0	95
1,2,3,4,7,8-HxCDF	50	50	36.0	67.0	99
1,2,3,6,7,8-HxCDF	50	50	42.0	65.0	100
2,3,4,6,7,8-HxCDF	50	53	35.0	78.0	105
1,2,3,7,8,9-HxCDF	50	52	39.0	65.0	104
1,2,3,4,7,8-HxCDD	50	55	35.0	82.0	109
1,2,3,6,7,8-HxCDD	50	50	38.0	67.0	100
1,2,3,7,8,9-HxCDD	50	51	32.0	81.0	102
1,2,3,4,6,7,8-HpCDF	50	52	41.0	61.0	104
1,2,3,4,7,8,9-HpCDF	50	47	39.0	69.0	94
1,2,3,4,6,7,8-HpCDD	50	50	35.0	70.0	100
OCDF	100	110	63.0	170.0	110
OCDD	100	110	78.0	144.0	113
2,3,7,8-TCDD-37Cl4	10	7.7	3.1	19.1	77
2,3,7,8-TCDF-13C	100	85	22.0	152.0	85
2,3,7,8-TCDD-13C	100	74	20.0	175.0	74
1,2,3,7,8-PeCDF-13C	100	87	21.0	192.0	87
2,3,4,7,8-PeCDF-13C	100	86	13.0	328.0	86
1,2,3,7,8-PeCDD-13C	100	98	21.0	227.0	98
1,2,3,4,7,8-HxCDF-13C	100	82	19.0	202.0	82
1,2,3,6,7,8-HxCDF-13C	100	85	21.0	159.0	85
2,3,4,6,7,8-HxCDF-13C	100	81	22.0	176.0	81
1,2,3,7,8,9-HxCDF-13C	100	77	17.0	205.0	77
1,2,3,4,7,8-HxCDD-13C	100	77	21.0	193.0	77
1,2,3,6,7,8-HxCDD-13C	100	86	25.0	163.0	86
1,2,3,4,6,7,8-HpCDF-13C	100	69	21.0	158.0	69
1,2,3,4,7,8,9-HpCDF-13C	100	64	20.0	186.0	64
1,2,3,4,6,7,8-HpCDD-13C	100	71	26.0	166.0	71
OCDD-13C	200	85	26.0	397.0	42

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

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Method 1613B Spiked Sample Report

Client - SLR International Corporation

Client's Sample ID	WL-P1-1-062124-MS		
Lab Sample ID	10697605001-MS		
Filename	Y240706A_11	Matrix	SOLID
Total Amount Extracted	13.6 g	Dilution	NA
ICAL ID	Y240308	Extracted	07/01/2024 14:00
CCal Filename(s)	Y240706A_01	Analyzed	07/06/2024 10:22
Method Blank ID	BLANK-113598	Injected By	JRH

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.24	113	2,3,7,8-TCDF-13C	2.00	98
Total TCDF				2,3,7,8-TCDD-13C	2.00	73
				1,2,3,7,8-PeCDF-13C	2.00	75
2,3,7,8-TCDD	0.20	0.26	128	2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	75
				1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	1.00	1.11	110	1,2,3,6,7,8-HxCDF-13C	2.00	94
2,3,4,7,8-PeCDF	1.00	1.10	108	2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	89
				1,2,3,4,7,8-HxCDD-13C	2.00	70
1,2,3,7,8-PeCDD	1.00	1.07	106	1,2,3,6,7,8-HxCDD-13C	2.00	97
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	69
				1,2,3,4,7,8,9-HpCDF-13C	2.00	71
1,2,3,4,7,8-HxCDF	1.00	1.09	108	1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	1.00	1.18	114	OCDD-13C	4.00	47
2,3,4,6,7,8-HxCDF	1.00	1.17	115			
1,2,3,7,8,9-HxCDF	1.00	1.10	110	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.20	119	2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	1.00	1.12	109			
1,2,3,7,8,9-HxCDD	1.00	1.14	112			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.29	107			
1,2,3,4,7,8,9-HpCDF	1.00	1.09	108			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	2.10	126			
Total HpCDD						
OCDF	2.00	3.19	133			
OCDD	2.00	11.70	237			

Qs = Quantity Spiked

Qm = Quantity Measured

Rec. = Recovery (Expressed as Percent)

Results reported on a total weight basis and are valid to no more than 2 significant figures.

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Method 1613B Spiked Sample Report

Client - SLR International Corporation

Client's Sample ID	WL-P1-1-062124-MSD		
Lab Sample ID	10697605001-MSD		
Filename	Y240706A_12	Matrix	SOLID
Total Amount Extracted	13.7 g	Dilution	NA
ICAL ID	Y240308	Extracted	07/01/2024 14:00
CCal Filename(s)	Y240706A_01	Analyzed	07/06/2024 11:05
Method Blank ID	BLANK-113598	Injected By	JRH

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.24	115	2,3,7,8-TCDF-13C	2.00	81
Total TCDF				2,3,7,8-TCDD-13C	2.00	52
				1,2,3,7,8-PeCDF-13C	2.00	58
2,3,7,8-TCDD	0.20	0.26	129	2,3,4,7,8-PeCDF-13C	2.00	63
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	61
				1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	1.00	1.16	115	1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	1.00	1.12	110	2,3,4,6,7,8-HxCDF-13C	2.00	75
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	74
				1,2,3,4,7,8-HxCDD-13C	2.00	64
1,2,3,7,8-PeCDD	1.00	1.07	106	1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	60
				1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	1.00	1.14	112	1,2,3,4,6,7,8-HpCDD-13C	2.00	62
1,2,3,6,7,8-HxCDF	1.00	1.11	107	OCDD-13C	4.00	37
2,3,4,6,7,8-HxCDF	1.00	1.14	113			
1,2,3,7,8,9-HxCDF	1.00	1.11	111	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.24	122	2,3,7,8-TCDD-37Cl4	0.20	59
1,2,3,6,7,8-HxCDD	1.00	1.15	111			
1,2,3,7,8,9-HxCDD	1.00	1.20	117			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.18	96			
1,2,3,4,7,8,9-HpCDF	1.00	1.15	114			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	1.64	80			
Total HpCDD						
OCDF	2.00	3.34	140			
OCDD	2.00	7.37	20			

Qs = Quantity Spiked

Qm = Quantity Measured

Rec. = Recovery (Expressed as Percent)

Results reported on a total weight basis and are valid to no more than 2 significant figures.

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Method 1613B Spiked Sample Report

Client - SLR International Corporation

Client's Sample ID	WL-P1-3-4-062124-MS		
Lab Sample ID	10697605002-MS		
Filename	L241016A_17	Matrix	SOLID
Total Amount Extracted	12.4 g	Dilution	NA
ICAL ID	L240918	Extracted	10/14/2024 14:00
CCal Filename(s)	L241016A_02	Analyzed	10/16/2024 23:25
Method Blank ID	BLANK-115186	Injected By	JF

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	99	2,3,7,8-TCDF-13C	2.00	71
Total TCDF				2,3,7,8-TCDD-13C	2.00	64
				1,2,3,7,8-PeCDF-13C	2.00	67
2,3,7,8-TCDD	0.20	0.22	106	2,3,4,7,8-PeCDF-13C	2.00	64
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	72
				1,2,3,4,7,8-HxCDF-13C	2.00	74
1,2,3,7,8-PeCDF	1.00	1.06	104	1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	1.00	1.01	99	2,3,4,6,7,8-HxCDF-13C	2.00	67
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	52
				1,2,3,4,7,8-HxCDD-13C	2.00	65
1,2,3,7,8-PeCDD	1.00	0.97	97	1,2,3,6,7,8-HxCDD-13C	2.00	69
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	49
				1,2,3,4,7,8,9-HpCDF-13C	2.00	47
1,2,3,4,7,8-HxCDF	1.00	0.99	99	1,2,3,4,6,7,8-HpCDD-13C	2.00	53
1,2,3,6,7,8-HxCDF	1.00	1.05	105	OCDD-13C	4.00	30
2,3,4,6,7,8-HxCDF	1.00	1.04	104			
1,2,3,7,8,9-HxCDF	1.00	1.05	105	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.15	115	2,3,7,8-TCDD-37Cl4	0.20	69
1,2,3,6,7,8-HxCDD	1.00	0.99	98			
1,2,3,7,8,9-HxCDD	1.00	1.02	102			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.08	106			
1,2,3,4,7,8,9-HpCDF	1.00	0.97	97			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	1.06	97			
Total HpCDD						
OCDF	2.00	2.47	121			
OCDD	2.00	2.94	111			

Qs = Quantity Spiked

Qm = Quantity Measured

Rec. = Recovery (Expressed as Percent)

Results reported on a total weight basis and are valid to no more than 2 significant figures.

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Method 1613B Spiked Sample Report

Client - SLR International Corporation

Client's Sample ID	WL-P1-3-4-062124-MSD		
Lab Sample ID	10697605002-MSD		
Filename	L241016B_01	Matrix	SOLID
Total Amount Extracted	12.5 g	Dilution	NA
ICAL ID	L240918	Extracted	10/14/2024 14:00
CCal Filename(s)	L241016A_18	Analyzed	10/17/2024 00:55
Method Blank ID	BLANK-115186	Injected By	JF

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	99	2,3,7,8-TCDF-13C	2.00	74
Total TCDF				2,3,7,8-TCDD-13C	2.00	66
				1,2,3,7,8-PeCDF-13C	2.00	68
2,3,7,8-TCDD	0.20	0.22	106	2,3,4,7,8-PeCDF-13C	2.00	61
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	69
				1,2,3,4,7,8-HxCDF-13C	2.00	74
1,2,3,7,8-PeCDF	1.00	0.94	91	1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	1.00	1.02	100	2,3,4,6,7,8-HxCDF-13C	2.00	71
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	62
				1,2,3,4,7,8-HxCDD-13C	2.00	69
1,2,3,7,8-PeCDD	1.00	0.94	94	1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	48
				1,2,3,4,7,8,9-HpCDF-13C	2.00	47
1,2,3,4,7,8-HxCDF	1.00	0.98	98	1,2,3,4,6,7,8-HpCDD-13C	2.00	55
1,2,3,6,7,8-HxCDF	1.00	1.03	103	OCDD-13C	4.00	32
2,3,4,6,7,8-HxCDF	1.00	1.02	102			
1,2,3,7,8,9-HxCDF	1.00	1.02	102	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.13	113	2,3,7,8-TCDD-37Cl4	0.20	68
1,2,3,6,7,8-HxCDD	1.00	0.98	97			
1,2,3,7,8,9-HxCDD	1.00	1.00	100			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.04	102			
1,2,3,4,7,8,9-HpCDF	1.00	0.96	96			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	1.05	95			
Total HpCDD						
OCDF	2.00	2.52	123			
OCDD	2.00	2.90	109			

Qs = Quantity Spiked

Qm = Quantity Measured

Rec. = Recovery (Expressed as Percent)

Results reported on a total weight basis and are valid to no more than 2 significant figures.

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Method 1613B Spiked Sample Report

Client - SLR International Corporation

Client's Sample ID	WL-P4-3-4-062024-MS		
Lab Sample ID	10697605011-MS		
Filename	U240730B_13	Matrix	SOLID
Total Amount Extracted	14.7 g	Dilution	NA
ICAL ID	U240423	Extracted	07/25/2024 14:00
CCal Filename(s)	U240730B_02	Analyzed	07/31/2024 07:24
Method Blank ID	BLANK-113956	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.20	98	2,3,7,8-TCDF-13C	2.00	80
Total TCDF				2,3,7,8-TCDD-13C	2.00	73
				1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	0.20	0.22	109	2,3,4,7,8-PeCDF-13C	2.00	74
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	76
				1,2,3,4,7,8-HxCDF-13C	2.00	86
1,2,3,7,8-PeCDF	1.00	0.98	98	1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	1.00	0.92	92	2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	68
				1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	1.00	0.95	95	1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	50
				1,2,3,4,7,8,9-HpCDF-13C	2.00	48
1,2,3,4,7,8-HxCDF	1.00	0.97	97	1,2,3,4,6,7,8-HpCDD-13C	2.00	55
1,2,3,6,7,8-HxCDF	1.00	0.98	98	OCDD-13C	4.00	39
2,3,4,6,7,8-HxCDF	1.00	0.98	98			
1,2,3,7,8,9-HxCDF	1.00	0.95	95	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.06	106	2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	1.00	0.96	96			
1,2,3,7,8,9-HxCDD	1.00	0.89	89			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.00	100			
1,2,3,4,7,8,9-HpCDF	1.00	0.96	96			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	0.94	88			
Total HpCDD						
OCDF	2.00	1.87	94			
OCDD	2.00	2.59	101			

Qs = Quantity Spiked

Qm = Quantity Measured

Rec. = Recovery (Expressed as Percent)

Results reported on a total weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

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Method 1613B Spiked Sample Report

Client - SLR International Corporation

Client's Sample ID	WL-P4-3-4-062024-MSD		
Lab Sample ID	10697605011-MSD		
Filename	U240730B_14	Matrix	SOLID
Total Amount Extracted	14.7 g	Dilution	NA
ICAL ID	U240423	Extracted	07/25/2024 14:00
CCal Filename(s)	U240730B_02	Analyzed	07/31/2024 08:11
Method Blank ID	BLANK-113956	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	108	2,3,7,8-TCDF-13C	2.00	78
Total TCDF				2,3,7,8-TCDD-13C	2.00	70
				1,2,3,7,8-PeCDF-13C	2.00	73
2,3,7,8-TCDD	0.20	0.24	119	2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	73
				1,2,3,4,7,8-HxCDF-13C	2.00	82
1,2,3,7,8-PeCDF	1.00	1.06	106	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	1.00	1.01	101	2,3,4,6,7,8-HxCDF-13C	2.00	75
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	66
				1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	1.00	1.03	103	1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	51
				1,2,3,4,7,8,9-HpCDF-13C	2.00	49
1,2,3,4,7,8-HxCDF	1.00	1.05	105	1,2,3,4,6,7,8-HpCDD-13C	2.00	57
1,2,3,6,7,8-HxCDF	1.00	1.15	115	OCDD-13C	4.00	41
2,3,4,6,7,8-HxCDF	1.00	1.11	111			
1,2,3,7,8,9-HxCDF	1.00	1.11	111	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.16	116	2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	1.00	1.06	106			
1,2,3,7,8,9-HxCDD	1.00	0.99	99			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.13	113			
1,2,3,4,7,8,9-HpCDF	1.00	1.08	108			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	1.14	108			
Total HpCDD						
OCDF	2.00	1.98	99			
OCDD	2.00	3.09	126			

Qs = Quantity Spiked

Qm = Quantity Measured

Rec. = Recovery (Expressed as Percent)

Results reported on a total weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

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Method 1613B Spiked Sample Report

Client - SLR International Corporation

Client's Sample ID	WL-P20-1-2-061924-MS		
Lab Sample ID	10697605058-MS		
Filename	U240708A_05	Matrix	SOLID
Total Amount Extracted	12.6 g	Dilution	NA
ICAL ID	U240423	Extracted	07/01/2024 14:00
CCal Filename(s)	U240708A_02	Analyzed	07/08/2024 14:05
Method Blank ID	BLANK-113600	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.23	117	2,3,7,8-TCDF-13C	2.00	75
Total TCDF				2,3,7,8-TCDD-13C	2.00	61
				1,2,3,7,8-PeCDF-13C	2.00	91
2,3,7,8-TCDD	0.20	0.25	125	2,3,4,7,8-PeCDF-13C	2.00	101
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	99
				1,2,3,4,7,8-HxCDF-13C	2.00	89
1,2,3,7,8-PeCDF	1.00	1.08	108	1,2,3,6,7,8-HxCDF-13C	2.00	88
2,3,4,7,8-PeCDF	1.00	1.06	106	2,3,4,6,7,8-HxCDF-13C	2.00	85
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	81
				1,2,3,4,7,8-HxCDD-13C	2.00	44
1,2,3,7,8-PeCDD	1.00	1.06	106	1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	71
				1,2,3,4,7,8,9-HpCDF-13C	2.00	65
1,2,3,4,7,8-HxCDF	1.00	1.12	112	1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	1.00	1.12	112	OCDD-13C	4.00	77
2,3,4,6,7,8-HxCDF	1.00	1.11	111			
1,2,3,7,8,9-HxCDF	1.00	1.12	112	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.36	136	2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	1.00	1.12	112			
1,2,3,7,8,9-HxCDD	1.00	1.39	139			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.14	113			
1,2,3,4,7,8,9-HpCDF	1.00	1.13	113			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	1.04	101			
Total HpCDD						
OCDF	2.00	2.43	121			
OCDD	2.00	2.73	125			

Qs = Quantity Spiked

Qm = Quantity Measured

Rec. = Recovery (Expressed as Percent)

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Method 1613B Spiked Sample Report

Client - SLR International Corporation

Client's Sample ID	WL-P20-1-2-061924-MSD		
Lab Sample ID	10697605058-MSD		
Filename	U240708A_06	Matrix	SOLID
Total Amount Extracted	12.5 g	Dilution	NA
ICAL ID	U240423	Extracted	07/01/2024 14:00
CCal Filename(s)	U240708A_02	Analyzed	07/08/2024 14:52
Method Blank ID	BLANK-113600	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	110	2,3,7,8-TCDF-13C	2.00	86
Total TCDF				2,3,7,8-TCDD-13C	2.00	69
				1,2,3,7,8-PeCDF-13C	2.00	86
2,3,7,8-TCDD	0.20	0.24	122	2,3,4,7,8-PeCDF-13C	2.00	74
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	71
				1,2,3,4,7,8-HxCDF-13C	2.00	96
1,2,3,7,8-PeCDF	1.00	1.06	106	1,2,3,6,7,8-HxCDF-13C	2.00	95
2,3,4,7,8-PeCDF	1.00	1.03	103	2,3,4,6,7,8-HxCDF-13C	2.00	85
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	84
				1,2,3,4,7,8-HxCDD-13C	2.00	64
1,2,3,7,8-PeCDD	1.00	1.02	102	1,2,3,6,7,8-HxCDD-13C	2.00	86
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	65
				1,2,3,4,7,8,9-HpCDF-13C	2.00	67
1,2,3,4,7,8-HxCDF	1.00	1.07	107	1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	1.00	1.09	109	OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	1.00	1.06	106			
1,2,3,7,8,9-HxCDF	1.00	1.03	103	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.25	125	2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	1.00	1.08	108			
1,2,3,7,8,9-HxCDD	1.00	1.19	119			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.13	112			
1,2,3,4,7,8,9-HpCDF	1.00	1.04	104			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	1.00	98			
Total HpCDD						
OCDF	2.00	2.31	115			
OCDD	2.00	2.59	118			

Qs = Quantity Spiked

Qm = Quantity Measured

Rec. = Recovery (Expressed as Percent)

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REPORT OF LABORATORY ANALYSIS

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Method 1613 Spike Sample Results

Client - SLR International Corporation

Client Sample ID WL-P1-1-062124
Lab Sample ID 10697605001
MS ID 10697605001-MS
MSD ID 10697605001-MSD

Sample Filename Y240706A_14
MS Filename Y240706A_11
MSD Filename Y240706A_12

Analyte	Quantity Spiked	Unspiked Sample Contribution		Quantity Measured		RPD	Subtracted Recovery	
	(ng)	to MS (ng)	to MSD (ng)	MS (ng)	MSD (ng)		MS (%)	MSD (%)
2,3,7,8-TCDF	0.20	0.00969	0.00971	0.24	0.24	1.3	113	115
2,3,7,8-TCDD	0.20	ND	ND	0.26	0.26	1.0	128	129
1,2,3,7,8-PeCDF	1.00	0.00939	0.00941	1.11	1.16	4.5	110	115
2,3,4,7,8-PeCDF	1.00	0.0124	0.0124	1.10	1.12	1.8	108	110
1,2,3,7,8-PeCDD	1.00	0.00979	0.00981	1.07	1.07	0.1	106	106
1,2,3,4,7,8-HxCDF	1.00	0.0125	0.0125	1.09	1.14	4.4	108	112
1,2,3,6,7,8-HxCDF	1.00	0.0402	0.0403	1.18	1.11	5.6	114	107
2,3,4,6,7,8-HxCDF	1.00	0.0119	0.0119	1.17	1.14	2.2	115	113
1,2,3,7,8,9-HxCDF	1.00	ND	ND	1.10	1.11	0.3	110	111
1,2,3,4,7,8-HxCDD	1.00	0.0159	0.0159	1.20	1.24	3.1	119	122
1,2,3,6,7,8-HxCDD	1.00	0.0363	0.0364	1.12	1.15	2.5	109	111
1,2,3,7,8,9-HxCDD	1.00	0.0279	0.0279	1.14	1.20	4.9	112	117
1,2,3,4,6,7,8-HpCDF	1.00	0.220	0.220	1.29	1.18	9.0	107	96
1,2,3,4,7,8,9-HpCDF	1.00	0.0148	0.0148	1.09	1.15	5.0	108	114
1,2,3,4,6,7,8-HpCDD	1.00	0.836	0.838	2.10	1.64	24.7	126	80
OCDF	2.00	0.532	0.534	3.19	3.34	4.5	133	140
OCDD	2.00	6.96	6.97	11.70	7.37	45.4	237	20

Quantity Spiked - the amount of analyte spiked into the spiked samples

Unspiked Sample Contribution - calculated based on the amount found in the sample and the extracted amounts of the spiked and unspiked samples

Quantity Measured - the total amount of analyte measured in the spiked samples

RPD - the Relative Percent Difference of the spiked sample Quantity Measured values

Subtracted Recovery - calculated after subtracting the unspiked sample contribution



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Method 1613 Spike Sample Results

Client - SLR International Corporation

Client Sample ID WL-P1-3-4-062124
 Lab Sample ID 10697605002
 MS ID 10697605002-MS
 MSD ID 10697605002-MSD

Sample Filename L241016A_12
 MS Filename L241016A_17
 MSD Filename L241016B_01

Analyte	Quantity Spiked	Unspiked Sample Contribution		Quantity Measured		RPD	Subtracted Recovery	
	(ng)	to MS (ng)	to MSD (ng)	MS (ng)	MSD (ng)		MS (%)	MSD (%)
2,3,7,8-TCDF	0.20	0.0169	0.0170	0.22	0.22	0.0	99	99
2,3,7,8-TCDD	0.20	0.00382	0.00385	0.22	0.22	0.3	106	106
1,2,3,7,8-PeCDF	1.00	0.0230	0.0231	1.06	0.94	12.5	104	91
2,3,4,7,8-PeCDF	1.00	0.0133	0.0134	1.01	1.02	0.9	99	100
1,2,3,7,8-PeCDD	1.00	ND	ND	0.97	0.94	2.9	97	94
1,2,3,4,7,8-HxCDF	1.00	ND	ND	0.99	0.98	1.2	99	98
1,2,3,6,7,8-HxCDF	1.00	ND	ND	1.05	1.03	1.5	105	103
2,3,4,6,7,8-HxCDF	1.00	ND	ND	1.04	1.02	1.7	104	102
1,2,3,7,8,9-HxCDF	1.00	ND	ND	1.05	1.02	3.6	105	102
1,2,3,4,7,8-HxCDD	1.00	ND	ND	1.15	1.13	1.6	115	113
1,2,3,6,7,8-HxCDD	1.00	0.0103	0.0104	0.99	0.98	1.0	98	97
1,2,3,7,8,9-HxCDD	1.00	ND	ND	1.02	1.00	2.2	102	100
1,2,3,4,6,7,8-HpCDF	1.00	0.0280	0.0282	1.08	1.04	3.6	106	102
1,2,3,4,7,8,9-HpCDF	1.00	ND	ND	0.97	0.96	0.9	97	96
1,2,3,4,6,7,8-HpCDD	1.00	0.0945	0.0952	1.06	1.05	1.3	97	95
OCDF	2.00	0.0543	0.0547	2.47	2.52	2.2	121	123
OCDD	2.00	0.719	0.725	2.94	2.90	1.3	111	109

Quantity Spiked - the amount of analyte spiked into the spiked samples

Unspiked Sample Contribution - calculated based on the amount found in the sample and the extracted amounts of the spiked and unspiked samples

Quantity Measured - the total amount of analyte measured in the spiked samples

RPD - the Relative Percent Difference of the spiked sample Quantity Measured values

Subtracted Recovery - calculated after subtracting the unspiked sample contribution



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1700 Elm Street, Suite 200
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Method 1613 Spike Sample Results

Client - SLR International Corporation

Client Sample ID WL-P4-3-4-062024
Lab Sample ID 10697605011
MS ID 10697605011-MS
MSD ID 10697605011-MSD

Sample Filename U240730B_07
MS Filename U240730B_13
MSD Filename U240730B_14

Analyte	Quantity Spiked	Unspiked Sample Contribution		Quantity Measured		RPD	Subtracted Recovery	
	(ng)	to MS (ng)	to MSD (ng)	MS (ng)	MSD (ng)		MS (%)	MSD (%)
2,3,7,8-TCDF	0.20	ND	ND	0.20	0.22	9.8	98	108
2,3,7,8-TCDD	0.20	ND	ND	0.22	0.24	9.4	109	119
1,2,3,7,8-PeCDF	1.00	ND	ND	0.98	1.06	8.0	98	106
2,3,4,7,8-PeCDF	1.00	ND	ND	0.92	1.01	8.6	92	101
1,2,3,7,8-PeCDD	1.00	ND	ND	0.95	1.03	8.3	95	103
1,2,3,4,7,8-HxCDF	1.00	ND	ND	0.97	1.05	7.8	97	105
1,2,3,6,7,8-HxCDF	1.00	ND	ND	0.98	1.15	16.0	98	115
2,3,4,6,7,8-HxCDF	1.00	ND	ND	0.98	1.11	12.4	98	111
1,2,3,7,8,9-HxCDF	1.00	ND	ND	0.95	1.11	15.5	95	111
1,2,3,4,7,8-HxCDD	1.00	ND	ND	1.06	1.16	9.4	106	116
1,2,3,6,7,8-HxCDD	1.00	ND	ND	0.96	1.06	10.3	96	106
1,2,3,7,8,9-HxCDD	1.00	ND	ND	0.89	0.99	10.9	89	99
1,2,3,4,6,7,8-HpCDF	1.00	ND	ND	1.00	1.13	12.3	100	113
1,2,3,4,7,8,9-HpCDF	1.00	ND	ND	0.96	1.08	12.6	96	108
1,2,3,4,6,7,8-HpCDD	1.00	0.0604	0.0604	0.94	1.14	19.0	88	108
OCDF	2.00	ND	ND	1.87	1.98	5.6	94	99
OCDD	2.00	0.577	0.576	2.59	3.09	17.6	101	126

Quantity Spiked - the amount of analyte spiked into the spiked samples

Unspiked Sample Contribution - calculated based on the amount found in the sample and the extracted amounts of the spiked and unspiked samples

Quantity Measured - the total amount of analyte measured in the spiked samples

RPD - the Relative Percent Difference of the spiked sample Quantity Measured values

Subtracted Recovery - calculated after subtracting the unspiked sample contribution

Method 1613 Spike Sample Results

Client - SLR International Corporation

Client Sample ID WL-P20-1-2-061924
Lab Sample ID 10697605058
MS ID 10697605058-MS
MSD ID 10697605058-MSD

Sample Filename U240708A_10
MS Filename U240708A_05
MSD Filename U240708A_06

Analyte	Quantity Spiked	Unspiked Sample Contribution		Quantity Measured		RPD	Subtracted Recovery	
	(ng)	to MS	to MSD	MS	MSD		MS	MSD
		(ng)	(ng)	(ng)	(ng)		(%)	(%)
2,3,7,8-TCDF	0.20	ND	ND	0.23	0.22	5.8	117	110
2,3,7,8-TCDD	0.20	ND	ND	0.25	0.24	2.3	125	122
1,2,3,7,8-PeCDF	1.00	ND	ND	1.08	1.06	1.4	108	106
2,3,4,7,8-PeCDF	1.00	ND	ND	1.06	1.03	2.9	106	103
1,2,3,7,8-PeCDD	1.00	ND	ND	1.06	1.02	3.5	106	102
1,2,3,4,7,8-HxCDF	1.00	ND	ND	1.12	1.07	4.5	112	107
1,2,3,6,7,8-HxCDF	1.00	ND	ND	1.12	1.09	3.5	112	109
2,3,4,6,7,8-HxCDF	1.00	ND	ND	1.11	1.06	4.0	111	106
1,2,3,7,8,9-HxCDF	1.00	ND	ND	1.12	1.03	8.4	112	103
1,2,3,4,7,8-HxCDD	1.00	ND	ND	1.36	1.25	8.5	136	125
1,2,3,6,7,8-HxCDD	1.00	ND	ND	1.12	1.08	3.4	112	108
1,2,3,7,8,9-HxCDD	1.00	ND	ND	1.39	1.19	15.2	139	119
1,2,3,4,6,7,8-HpCDF	1.00	0.00613	0.00608	1.14	1.13	1.1	113	112
1,2,3,4,7,8,9-HpCDF	1.00	ND	ND	1.13	1.04	8.5	113	104
1,2,3,4,6,7,8-HpCDD	1.00	0.0233	0.0231	1.04	1.00	3.7	101	98
OCDF	2.00	0.0114	0.0113	2.43	2.31	4.9	121	115
OCDD	2.00	0.226	0.224	2.73	2.59	5.2	125	118

Quantity Spiked - the amount of analyte spiked into the spiked samples

Unspiked Sample Contribution - calculated based on the amount found in the sample and the extracted amounts of the spiked and unspiked samples

Quantity Measured - the total amount of analyte measured in the spiked samples

RPD - the Relative Percent Difference of the spiked sample Quantity Measured values

Subtracted Recovery - calculated after subtracting the unspiked sample contribution

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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June 28, 2024

Chris Kramer, Project Manager
SLR International Corp.
22118 20th Ave. SE, G-202
Bothell, WA 98021

Dear Mr Kramer:

Included are the results from the testing of material submitted on June 21, 2024 from the Nord Woodlife Area 108.V20689.00001, F&BI 406328 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
SLR0628R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 21, 2024 by Friedman & Bruya, Inc. from the SLR International Corp. Nord Woodlife Area 108.V20689.00001, F&BI 406328 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
406328 -01	WL-P10-5-6-062024
406328 -02	WL-P11-0-1-062024
406328 -03	WL-P18-4.5-5.5-061924
406328 -04	WL-P18-6-7-061924

The 8260D calibration standard exceeded the acceptance criteria for several compounds. The compounds were not detected, therefore this did not represent an out of control condition, and the results are not considered estimates.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	WL-P10-5-6-062024	Client:	SLR International Corp.
Date Received:	06/21/24	Project:	Nord Woodlife Area
Date Extracted:	06/26/24	Lab ID:	406328-01 1/0.5
Date Analyzed:	06/26/24	Data File:	062611.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	91	84	120
Toluene-d8	96	73	128
4-Bromofluorobenzene	96	57	146

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.002
Vinyl chloride	<0.002	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.005
Chloroethane	<0.1	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	0.015
Acetone	<5 k	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.002	m,p-Xylene	0.086
Hexane	<0.25	o-Xylene	0.0038
Methylene chloride	<0.4	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.002	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.002	Bromoform	<0.05
1,1-Dichloroethane	<0.002	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05 k	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.002	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1 k	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.003	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.002	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.002	sec-Butylbenzene	<0.05
Trichloroethene	<0.002	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	0.11	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.01
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<1		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID: WL-P11-0-1-062024	Client: SLR International Corp.
Date Received: 06/21/24	Project: Nord Woodlife Area
Date Extracted: 06/26/24	Lab ID: 406328-02 1/0.5
Date Analyzed: 06/26/24	Data File: 062612.D
Matrix: Soil	Instrument: GCMS13
Units: mg/kg (ppm) Dry Weight	Operator: MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	84	120
Toluene-d8	121	73	128
4-Bromofluorobenzene	98	57	146

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.002
Vinyl chloride	<0.002	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.005
Chloroethane	<0.1	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	1.5
Acetone	<5 k	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.002	m,p-Xylene	14
Hexane	<0.25	o-Xylene	0.59
Methylene chloride	<0.4	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.002	Isopropylbenzene	0.27
trans-1,2-Dichloroethene	<0.002	Bromoform	<0.05
1,1-Dichloroethane	<0.002	n-Propylbenzene	0.55
2,2-Dichloropropane	<0.05 k	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.002	1,3,5-Trimethylbenzene	2.8
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1 k	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.003	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.002	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	0.074
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	6.6
Benzene	0.012	sec-Butylbenzene	1.0
Trichloroethene	<0.002	p-Isopropyltoluene	1.2
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	0.59	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	0.53
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<1		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	WL-P18-4.5-5.5-061924	Client:	SLR International Corp.
Date Received:	06/21/24	Project:	Nord Woodlife Area
Date Extracted:	06/26/24	Lab ID:	406328-03 1/0.5
Date Analyzed:	06/26/24	Data File:	062613.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	92	84	120
Toluene-d8	97	73	128
4-Bromofluorobenzene	204	57	146

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.002
Vinyl chloride	<0.002	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.005
Chloroethane	<0.1	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	0.18
Acetone	<5 k	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.002	m,p-Xylene	2.2
Hexane	0.48	o-Xylene	0.48
Methylene chloride	<0.4	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.002	Isopropylbenzene	2.9
trans-1,2-Dichloroethene	<0.002	Bromoform	<0.05
1,1-Dichloroethane	<0.002	n-Propylbenzene	5.1
2,2-Dichloropropane	<0.05 k	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.002	1,3,5-Trimethylbenzene	5.9
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1 k	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.003	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.002	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	0.53
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	23 ve
Benzene	<0.002	sec-Butylbenzene	7.1
Trichloroethene	<0.002	p-Isopropyltoluene	7.8
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	0.34	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	0.13
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<1		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	WL-P18-6-7-061924	Client:	SLR International Corp.
Date Received:	06/21/24	Project:	Nord Woodlife Area
Date Extracted:	06/26/24	Lab ID:	406328-04 1/0.5
Date Analyzed:	06/26/24	Data File:	062614.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	92	84	120
Toluene-d8	97	73	128
4-Bromofluorobenzene	95	57	146

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.002
Vinyl chloride	<0.002	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.005
Chloroethane	<0.1	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	0.45
Acetone	<5 k	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.002	m,p-Xylene	6.1
Hexane	<0.25	o-Xylene	0.13
Methylene chloride	<0.4	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.002	Isopropylbenzene	0.42
trans-1,2-Dichloroethene	<0.002	Bromoform	<0.05
1,1-Dichloroethane	<0.002	n-Propylbenzene	0.93
2,2-Dichloropropane	<0.05 k	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.002	1,3,5-Trimethylbenzene	0.82
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1 k	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.003	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.002	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	0.056
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	4.4
Benzene	<0.002	sec-Butylbenzene	0.69
Trichloroethene	<0.002	p-Isopropyltoluene	0.93
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	0.033	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	0.27
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<1		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Nord Woodlife Area
Date Extracted:	06/26/24	Lab ID:	04-1332 mb 1/0.5
Date Analyzed:	06/26/24	Data File:	062606.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	92	84	120
Toluene-d8	94	73	128
4-Bromofluorobenzene	100	57	146

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.002
Vinyl chloride	<0.002	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.005
Chloroethane	<0.1 k	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.002
Acetone	<5 k	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.002	m,p-Xylene	<0.004
Hexane	<0.25 k	o-Xylene	<0.002
Methylene chloride	<0.4	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.002	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.002	Bromoform	<0.05
1,1-Dichloroethane	<0.002	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05 k	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.002	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1 k	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.003	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.002	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.002	sec-Butylbenzene	<0.05
Trichloroethene	<0.002	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.002	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.01
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<1 k		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/28/24

Date Received: 06/21/24

Project: Nord Woodlife Area 108.V20689.00001, F&BI 406328

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 406004-10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2	<0.5	43	39	10-142	10
Chloromethane	mg/kg (ppm)	2	<0.5	71	69	10-126	3
Vinyl chloride	mg/kg (ppm)	2	<0.05	80	77	10-138	4
Bromomethane	mg/kg (ppm)	2	<0.5	73	73	10-163	0
Chloroethane	mg/kg (ppm)	2	<0.5	78	73	10-176	7
Trichlorofluoromethane	mg/kg (ppm)	2	<0.5	80	77	10-176	4
Acetone	mg/kg (ppm)	10	<5	82	83	10-163	1
1,1-Dichloroethene	mg/kg (ppm)	2	<0.05	84	78	10-160	7
Hexane	mg/kg (ppm)	2	<0.25	92	86	10-137	7
Methylene chloride	mg/kg (ppm)	2	<0.5	98	95	10-156	3
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2	<0.05	91	88	21-145	3
trans-1,2-Dichloroethene	mg/kg (ppm)	2	<0.05	94	85	14-137	10
1,1-Dichloroethane	mg/kg (ppm)	2	<0.05	91	89	19-140	2
2,2-Dichloropropane	mg/kg (ppm)	2	<0.05	104	100	10-158	4
cis-1,2-Dichloroethene	mg/kg (ppm)	2	<0.05	93	91	25-135	2
Chloroform	mg/kg (ppm)	2	<0.05	88	91	21-145	3
2-Butanone (MEK)	mg/kg (ppm)	10	<1	88	88	19-147	0
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2	<0.05	90	84	12-160	7
1,1,1-Trichloroethane	mg/kg (ppm)	2	<0.05	89	85	10-156	5
1,1-Dichloropropene	mg/kg (ppm)	2	<0.05	94	85	17-140	10
Carbon tetrachloride	mg/kg (ppm)	2	<0.05	95	91	9-164	4
Benzene	mg/kg (ppm)	2	<0.03	88	86	29-129	2
Trichloroethene	mg/kg (ppm)	2	<0.02	119	118	21-139	1
1,2-Dichloropropane	mg/kg (ppm)	2	<0.05	92	94	30-135	2
Bromodichloromethane	mg/kg (ppm)	2	<0.05	87	94	23-155	8
Dibromomethane	mg/kg (ppm)	2	<0.05	91	91	23-145	0
4-Methyl-2-pentanone	mg/kg (ppm)	10	<1	92	92	24-155	0
cis-1,3-Dichloropropene	mg/kg (ppm)	2	<0.05	88	88	28-144	0
Toluene	mg/kg (ppm)	2	<0.05	91	91	35-130	0
trans-1,3-Dichloropropene	mg/kg (ppm)	2	<0.05	88	82	26-149	7
1,1,2-Trichloroethane	mg/kg (ppm)	2	<0.05	88	89	10-205	1
2-Hexanone	mg/kg (ppm)	10	<1	90	88	15-166	2
1,3-Dichloropropene	mg/kg (ppm)	2	<0.05	91	86	31-137	6
Tetrachloroethene	mg/kg (ppm)	2	<0.025	90	93	20-133	3
Dibromochloromethane	mg/kg (ppm)	2	<0.05	89	89	28-150	0
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2	<0.05	93	96	28-142	3
Chlorobenzene	mg/kg (ppm)	2	<0.05	95	91	32-129	4
Ethylbenzene	mg/kg (ppm)	2	<0.05	97	93	32-137	4
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2	<0.05	97	94	31-143	3
m,p-Xylene	mg/kg (ppm)	4	<0.1	96	92	34-136	4
o-Xylene	mg/kg (ppm)	2	<0.05	97	90	33-134	7
Styrene	mg/kg (ppm)	2	<0.05	95	92	35-137	3
Isopropylbenzene	mg/kg (ppm)	2	<0.05	94	93	31-142	1
Bromoform	mg/kg (ppm)	2	<0.05	95	91	21-156	4
n-Propylbenzene	mg/kg (ppm)	2	<0.05	102	101	23-146	1
Bromobenzene	mg/kg (ppm)	2	<0.05	91	88	34-130	3
1,3,5-Trimethylbenzene	mg/kg (ppm)	2	<0.05	97	101	18-149	4
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2	<0.05	59	58	28-140	2
1,2,3-Trichloropropane	mg/kg (ppm)	2	<0.05	89	96	25-144	8
2-Chlorotoluene	mg/kg (ppm)	2	<0.05	99	100	31-134	1
4-Chlorotoluene	mg/kg (ppm)	2	<0.05	97	97	31-136	0
tert-Butylbenzene	mg/kg (ppm)	2	<0.05	101	102	30-137	1
1,2,4-Trimethylbenzene	mg/kg (ppm)	2	<0.05	97	98	10-182	1
sec-Butylbenzene	mg/kg (ppm)	2	<0.05	99	101	23-145	2
p-Isopropyltoluene	mg/kg (ppm)	2	<0.05	100	100	21-149	0
1,3-Dichlorobenzene	mg/kg (ppm)	2	<0.05	93	96	30-131	3
1,4-Dichlorobenzene	mg/kg (ppm)	2	<0.05	93	96	29-129	3
1,2-Dichlorobenzene	mg/kg (ppm)	2	<0.05	94	95	31-132	1
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2	<0.5	88	89	11-161	1
1,2,4-Trichlorobenzene	mg/kg (ppm)	2	<0.25	94	97	22-142	3
Hexachlorobutadiene	mg/kg (ppm)	2	<0.25	98	103	10-142	5
Naphthalene	mg/kg (ppm)	2	<0.05	90	94	14-157	4
1,2,3-Trichlorobenzene	mg/kg (ppm)	2	<0.25	94	92	20-144	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/28/24

Date Received: 06/21/24

Project: Nord Woodlife Area 108.V20689.00001, F&BI 406328

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2	61	10-146
Chloromethane	mg/kg (ppm)	2	86	27-133
Vinyl chloride	mg/kg (ppm)	2	90	22-139
Bromomethane	mg/kg (ppm)	2	86	10-201
Chloroethane	mg/kg (ppm)	2	88	10-163
Trichlorofluoromethane	mg/kg (ppm)	2	79	10-196
Acetone	mg/kg (ppm)	10	59	52-141
1,1-Dichloroethene	mg/kg (ppm)	2	82	47-128
Hexane	mg/kg (ppm)	2	108	43-142
Methylene chloride	mg/kg (ppm)	2	95	10-184
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2	86	60-123
trans-1,2-Dichloroethene	mg/kg (ppm)	2	92	64-132
1,1-Dichloroethane	mg/kg (ppm)	2	92	64-135
2,2-Dichloropropane	mg/kg (ppm)	2	98	52-170
cis-1,2-Dichloroethene	mg/kg (ppm)	2	95	64-135
Chloroform	mg/kg (ppm)	2	90	61-139
2-Butanone (MEK)	mg/kg (ppm)	10	79	30-197
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2	85	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	2	90	62-131
1,1-Dichloropropene	mg/kg (ppm)	2	94	64-136
Carbon tetrachloride	mg/kg (ppm)	2	92	60-139
Benzene	mg/kg (ppm)	2	90	65-136
Trichloroethene	mg/kg (ppm)	2	92	63-139
1,2-Dichloropropane	mg/kg (ppm)	2	91	61-145
Bromodichloromethane	mg/kg (ppm)	2	89	57-126
Dibromomethane	mg/kg (ppm)	2	98	62-123
4-Methyl-2-pentanone	mg/kg (ppm)	10	92	45-145
cis-1,3-Dichloropropene	mg/kg (ppm)	2	90	65-143
Toluene	mg/kg (ppm)	2	91	66-126
trans-1,3-Dichloropropene	mg/kg (ppm)	2	88	65-131
1,1,2-Trichloroethane	mg/kg (ppm)	2	88	62-131
2-Hexanone	mg/kg (ppm)	10	94	33-152
1,3-Dichloropropane	mg/kg (ppm)	2	86	67-128
Tetrachloroethene	mg/kg (ppm)	2	91	68-128
Dibromochloromethane	mg/kg (ppm)	2	90	55-121
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2	91	66-129
Chlorobenzene	mg/kg (ppm)	2	93	67-128
Ethylbenzene	mg/kg (ppm)	2	94	64-123
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2	101	64-121
m,p-Xylene	mg/kg (ppm)	4	96	68-128
o-Xylene	mg/kg (ppm)	2	96	67-129
Styrene	mg/kg (ppm)	2	98	67-129
Isopropylbenzene	mg/kg (ppm)	2	95	68-128
Bromoform	mg/kg (ppm)	2	96	56-132
n-Propylbenzene	mg/kg (ppm)	2	108	68-129
Bromobenzene	mg/kg (ppm)	2	97	69-128
1,3,5-Trimethylbenzene	mg/kg (ppm)	2	107	69-129
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2	99	56-143
1,2,3-Trichloropropane	mg/kg (ppm)	2	103	61-137
2-Chlorotoluene	mg/kg (ppm)	2	109	69-128
4-Chlorotoluene	mg/kg (ppm)	2	99	67-127
tert-Butylbenzene	mg/kg (ppm)	2	109	69-129
1,2,4-Trimethylbenzene	mg/kg (ppm)	2	108	69-128
sec-Butylbenzene	mg/kg (ppm)	2	108	69-130
p-Isopropyltoluene	mg/kg (ppm)	2	105	69-130
1,3-Dichlorobenzene	mg/kg (ppm)	2	102	69-127
1,4-Dichlorobenzene	mg/kg (ppm)	2	98	68-126
1,2-Dichlorobenzene	mg/kg (ppm)	2	96	69-127
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2	98	58-138
1,2,4-Trichlorobenzene	mg/kg (ppm)	2	98	64-135
Hexachlorobutadiene	mg/kg (ppm)	2	101	50-153
Naphthalene	mg/kg (ppm)	2	99	62-128
1,2,3-Trichlorobenzene	mg/kg (ppm)	2	101	61-126

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 low; 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.

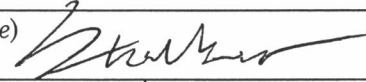
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

406328

SAMPLE CHAIN OF CUSTODY

06/21/24 N1
Page # 1 of 1Report to Chris KramerCompany SLR ConsultingAddress 1800 Blankenship Rd #440City, State, ZIP West Linn, OR, 97068Phone (503) 723-4423 Email ckramer@slrconsulting.com

SAMPLERS (signature)



PROJECT NAME

Nord Woodlife Area

PO #

108.V20689-00001

REMARKS

INVOICE TO

Chris Kramer &

ap-us@slrconsulting.com

Project specific RLs? - Yes / No

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

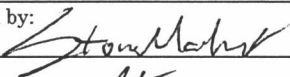
☐ Archive samples☐ Other

Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082				
WL-P10-S-6-062024	01 A-D		1720	Soil	4					X						
WL-P11-D-1-062024	02		1651	↓	↓					X						
WL-P18-4.5-5.5-061924	03		1545	↓	↓					X						
WL-P18-6-7-061924	04		1545	↓	↓					X						

Samples received at 2:00

Friedman & Bruya, Inc.
Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Stane Maeluf	SLR	06/21/24	1636
Received by: 	ANH PHAN	FBI	06/21/24	16:36
Relinquished by:				
Received by:				

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 406328 CLIENT SLR INITIALS/ AP
DATE: 06/21/24

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 2 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/ (NP)
*or other representative documents, letters, and/or shipping memos Date: 6/24/24

Number of days samples have been sitting prior to receipt at laboratory 1 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☒ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☒ Yes ☐ No	☐ Not on COC/label
Date Sampled	☐ Yes ☒ No <u>no date sampled on COC.</u>	☐ Not on <u>COC</u> label
Time Sampled	☒ Yes ☐ No	☐ Not on COC/label
# of Containers	☒ Yes ☐ No	
Relinquished	☒ Yes ☐ No	
Requested analysis	☒ Yes ☐ On Hold	

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

Report Prepared for:

Chris Kramer
SLR International Corporation
1800 Blankenship Road
Suite 440
West Linn OR 97068

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Prepared Date:

December 17, 2024

Report Information:

Pace Project #: 10716364

Sample Receipt Date: 11/20/2024

Client Project #: 108.V20689.00001 Nord Woodli

Client Sub PO #: N/A

State Cert #: N/A

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Kirsten Hogberg, your Pace Project Manager.

This report has been reviewed by:



January 08, 2025

Kirsten Johnson, Project Manager
(612) 607-6407
(612) 607-6444 (fax)
kirsten.johnson@pacelabs.com



Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

DISCUSSION

This report presents the results from the analysis performed on one sample submitted by a representative of SLR International Corporation. The sample was analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using USEPA Method 1613B. The reporting limits were set to statistically-derived method detection limits (MDLs) and were adjusted for sample extraction amount and dilution. Estimated maximum possible concentration (EMPC) values were treated as positives in the toxic equivalence calculations.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extract ranged from 47-77%. All of the labeled standard recoveries obtained for this project were within the target ranges specified in Method 1613B. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

Values were flagged "P" where polychlorinated diphenyl ethers were present. Concentrations below the calibration range were flagged "J" and should be regarded as estimates. Concentrations above the calibration range were flagged "E" and should also be regarded as estimates. In cases where the estimated detection limit (EDL) values were above the method detection limits, the EDLs were provided and flagged "A".

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of PCDDs and PCDFs at the reporting limits.

Laboratory spike samples were also prepared with the sample batch using clean reference matrix that had been fortified with native standard materials. The results showed that the spiked native compounds were recovered at 94-123% with relative percent differences of 0.0-12.6%. These results were within the target ranges for the method. Matrix spikes were not prepared with the sample batch.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Missouri	10100
Alabama	40770	Montana	CERT0092
Alaska-DW	MN00064	Nebraska	NE-OS-18-06
Alaska-UST	17-009	Nevada	MN00064
Arizona	AZ0014	New Hampshire	2081
Arkansas - WW	88-0680	New Jersey	MN002
Arkansas-DW	MN00064	New York	11647
California	2929	North Carolina-DW	27700
Colorado	MN00064	North Carolina-WW	530
Connecticut	PH-0256	North Dakota	R-036
Florida	E87605	Ohio-DW	41244
Georgia	959	Ohio-VAP (1700)	CL101
Hawaii	MN00064	Ohio-VAP (1800)	CL110
Idaho	MN00064	Oklahoma	9507
Illinois	200011	Oregon-Primary	MN300001
Indiana	C-MN-01	Oregon-Secondary	MN200001
Iowa	368	Pennsylvania	68-00563
Kansas	E-10167	Puerto Rico	MN00064
Kentucky-DW	90062	South Carolina	74003
Kentucky-WW	90062	Tennessee	TN02818
Louisiana-DEQ	AI-84596	Texas	T104704192
Louisiana-DW	MN00064	Utah	MN00064
Maine	MN00064	Vermont	VT-027053137
Maryland	322	Virginia	460163
Michigan	9909	Washington	C486
Minnesota	027-053-137	West Virginia-DEP	382
Minnesota-Ag	via MN 027-053-137	West Virginia-DW	9952C
Minnesota-Petrofund	1240	Wisconsin	999407970
Mississippi	MN00064	Wyoming-UST	via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

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Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

ENV-FRM-MIN4-0150 v17_Sample Condition Upon Receipt

CLIENT NAME: SLR

PROJECT #:

WO#: 10716364

COURIER: ☐ Client ☐ Commercial ☒ FedEx ☐ Pace
☐ Speedee ☐ UPS ☐ USPS

PM: KNH

Due Date: 12/13/24

CLIENT: SLR

TRACKING NUMBER: 715161157097 ☐ See Exceptions form
ENV-FRM-MIN4-0142Custody Seal on Cooler/Box Present: ☒ YES ☐ NO Seals Intact: ☒ YES ☐ NO Biological Tissue Frozen: ☐ YES ☐ NO ☒ N/APacking Material: ☐ Bubble Bags ☒ Bubble Wrap ☐ None ☐ Other Temp Blank: ☒ YES ☐ NO Type of Ice: ☐ Blue ☐ Dry ☒ WetThermometer: ☐ T1 (0461) ☐ T2 (0436) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235)
☐ T7 (0042) ☐ T8 (0775) ☒ T9 (0727) ☐ 01339252 (1710)☐ Melted ☐ NoneDid Samples Originate in West Virginia: ☐ YES ☒ NOWere All Container Temps taken: ☐ YES ☐ NO ☒ N/ACorrection Factor: -0.4 Cooler Temp Read w/Temp Blank: 1.1 °C

Average Corrected Temp (no Temp Blank Only): _____ °C

Cooler Temp Corrected w/Temp Blank: 0.7 °C

NOTE: Temp should be above freezing to 6°C.

☐ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 ContainerUSDA Regulated Soil: ☐ N/A - Water Sample/Other (describe): _____Initials & Date of Person Examining Contents: KNH 11/20/24Did Samples originate from one of the following states (check maps) AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☒ NODid samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☒ NO

NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one):	☐ DULUTH	☒ MINNEAPOLIS	☐ VIRGINIA	YES	NO	N/A	COMMENT(S)								
Chain of Custody Present and Filled Out?		☒		☒	☐		1.								
Chain of Custody Relinquished?		☒		☒	☐		2.								
Sampler Name and/or Signature on COC?		☒		☒	☐		3.								
Samples Arrived within Hold Time?		☒		☒	☐		4. If Fecal: ☐ <8 hrs ☐ >8 hr, <24 hr ☐ No								
Short Hold Time Analysis (<72 hr)?		☐		☐	☒		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex.Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/E. coli ☐ Other: _____								
Rush Turn Around Time Requested?		☐		☐	☒		6.								
Sufficient Sample Volume?		☒		☒	☐		7.								
Correct Containers Used?		☒		☒	☐		8.								
- Pace Containers Used?		☐		☐	☒										
Containers Intact?		☒		☒	☐		9.								
Field Filtered Volume Received for Dissolved Tests?		☐		☐	☐	☒	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO								
Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: ☐ Oil ☒ Soil ☐ Water ☐ Other		☒		☒	☐		11. If NO, write ID/Date/Time of container below: ☐ See Exceptions form ENV-FRM-MIN4-0142								
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS		☐		☐	☐	☒	12. Sample #: ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ Zinc Acetate Positive for Residual Chlorine: ☐ YES ☐ NO pH Paper Lot # <table border="1"><thead><tr><th>Residual Chlorine</th><th>0-6 Roll</th><th>0-6 Strip</th><th>0-14 Strip</th></tr></thead><tbody><tr><td></td><td></td><td></td><td></td></tr></tbody></table> ☐ See Exceptions form ENV-FRM-MIN4-0142	Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip				
Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip												
NOTE: If adding preservation to the container, verify with the PM first. Clients may require adding preservative to the field and equipment blanks when this occurs.															
Headspace in Methyl Mercury Container?		☐		☐	☐	☒	13.								
Extra labels present on soil VOA or WIDRO containers?		☐		☐	☐	☒	14.								
Headspace in VOA Vials (greater than 6mm)?		☐		☐	☐	☒	☐ See Exceptions form ENV-FRM-MIN4-0140								
Trip Blanks Present?		☐		☐	☒	☐	15.								
Trip Blank Custody Seals Present?		☐		☐	☐	☒	Pace Trip Blank Lot # (if purchased): _____								

CLIENT NOTIFICATION / RESOLUTION

FIELD DATA REQUIRED: ☐ YES ☐ NO

Person Contacted: _____

Date & Time: _____

Comments / Resolution: _____

Project Manager Review: Kirsten HogbergDate: 11/21/2024

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: JMWLine: 5



Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- H2 = Extracted outside of holding time
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	WL-P27-1-1.5-111524		
Lab Sample ID	10716364001		
Filename	L241215A_17		
Injected By	JRH		
Total Amount Extracted	14.1 g	Matrix	SOLID
% Moisture	11.2	Dilution	NA
Dry Weight Extracted	12.5 g	Collected	11/15/2024 09:47
ICAL ID	L240918	Received	11/20/2024 09:00
CCal Filename(s)	L241215A_02	Extracted	11/27/2024 14:00
Method Blank ID	BLANK-115815	Analyzed	12/15/2024 23:34

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.55	----	0.21	J	2,3,7,8-TCDF-13C	2.00	72
Total TCDF	8.2	----	0.21		2,3,7,8-TCDD-13C	2.00	67
					1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	ND	----	0.20		2,3,4,7,8-PeCDF-13C	2.00	72
Total TCDD	16	----	0.20		1,2,3,7,8-PeCDD-13C	2.00	73
					1,2,3,4,7,8-HxCDF-13C	2.00	74
1,2,3,7,8-PeCDF	----	26	0.50	P	1,2,3,6,7,8-HxCDF-13C	2.00	75
2,3,4,7,8-PeCDF	----	3.1	0.75	PJ	2,3,4,6,7,8-HxCDF-13C	2.00	67
Total PeCDF	23	----	0.50		1,2,3,7,8,9-HxCDF-13C	2.00	71
					1,2,3,4,7,8-HxCDD-13C	2.00	64
1,2,3,7,8-PeCDD	1.7	----	0.66	J	1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	20	----	0.66		1,2,3,4,6,7,8-HpCDF-13C	2.00	52
					1,2,3,4,7,8,9-HpCDF-13C	2.00	49
1,2,3,4,7,8-HxCDF	8.6	----	0.77		1,2,3,4,6,7,8-HpCDD-13C	2.00	57
1,2,3,6,7,8-HxCDF	4.9	----	0.81		OCDD-13C	4.00	47
2,3,4,6,7,8-HxCDF	4.3	----	0.71				
1,2,3,7,8,9-HxCDF	2.0	----	0.73	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	190	----	0.71		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	6.0	----	1.3		2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	28	----	0.74				
1,2,3,7,8,9-HxCDD	10	----	0.99				
Total HxCDD	150	----	0.74				
1,2,3,4,6,7,8-HpCDF	160	----	1.2	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	11	----	1.7	A	Equivalence: 29 ng/Kg		
Total HpCDF	530	----	1.2		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	1200	----	0.50				
Total HpCDD	2100	----	0.50				
OCDF	610	----	1.8				
OCDD	19000	----	1.6	E			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

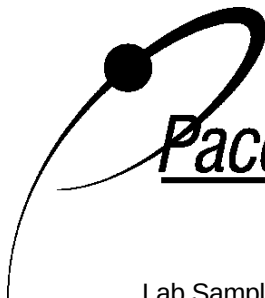
A = Reporting Limit based on signal to noise (EDL)

P = PCDE Interference

E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

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Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKWS	Matrix	Solid
Lab Sample ID	BLANK-115815	Dilution	NA
Filename	F241210B_08	Extracted	11/27/2024 14:00
Total Amount Extracted	21.5 g	Analyzed	12/10/2024 19:16
ICAL ID	F241015	Injected By	SMT
CCal Filename(s)	F241210B_01		

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.12	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	ND	----	0.12	2,3,7,8-TCDD-13C	2.00	71
				1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	----	0.12	2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	ND	----	0.12	1,2,3,7,8-PeCDD-13C	2.00	77
				1,2,3,4,7,8-HxCDF-13C	2.00	98
1,2,3,7,8-PeCDF	ND	----	0.29	1,2,3,6,7,8-HxCDF-13C	2.00	99
2,3,4,7,8-PeCDF	ND	----	0.44	2,3,4,6,7,8-HxCDF-13C	2.00	92
Total PeCDF	ND	----	0.29	1,2,3,7,8,9-HxCDF-13C	2.00	68
				1,2,3,4,7,8-HxCDD-13C	2.00	72
1,2,3,7,8-PeCDD	ND	----	0.38	1,2,3,6,7,8-HxCDD-13C	2.00	89
Total PeCDD	ND	----	0.38	1,2,3,4,6,7,8-HpCDF-13C	2.00	50
				1,2,3,4,7,8,9-HpCDF-13C	2.00	50
1,2,3,4,7,8-HxCDF	ND	----	0.45	1,2,3,4,6,7,8-HpCDD-13C	2.00	52
1,2,3,6,7,8-HxCDF	ND	----	0.47	OCDD-13C	4.00	46
2,3,4,6,7,8-HxCDF	ND	----	0.42			
1,2,3,7,8,9-HxCDF	ND	----	0.43	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.42	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.75	2,3,7,8-TCDD-37Cl4	0.20	72
1,2,3,6,7,8-HxCDD	ND	----	0.43			
1,2,3,7,8,9-HxCDD	ND	----	0.58			
Total HxCDD	ND	----	0.43			
1,2,3,4,6,7,8-HpCDF	ND	----	0.38 A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.47	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	----	0.38	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.40 A			
Total HpCDD	ND	----	0.40			
OCDF	ND	----	1.1			
OCDD	ND	----	0.93			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

MDL = Method Detection Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.

A= Reporting Limit based on signal to noise (EDL)

REPORT OF LABORATORY ANALYSIS

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-115816	Matrix	Solid
Filename	F241210B_02	Dilution	NA
Total Amount Extracted	20.8 g	Extracted	11/27/2024 14:00
ICAL ID	F241015	Analyzed	12/10/2024 14:46
CCal Filename	F241210B_01	Injected By	SMT
Method Blank ID	BLANK-115815		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	10	7.5	15.8	104
2,3,7,8-TCDD	10	12	6.7	15.8	115
1,2,3,7,8-PeCDF	50	51	40.0	67.0	102
2,3,4,7,8-PeCDF	50	48	34.0	80.0	96
1,2,3,7,8-PeCDD	50	47	35.0	71.0	94
1,2,3,4,7,8-HxCDF	50	50	36.0	67.0	99
1,2,3,6,7,8-HxCDF	50	52	42.0	65.0	104
2,3,4,6,7,8-HxCDF	50	51	35.0	78.0	102
1,2,3,7,8,9-HxCDF	50	51	39.0	65.0	102
1,2,3,4,7,8-HxCDD	50	52	35.0	82.0	104
1,2,3,6,7,8-HxCDD	50	51	38.0	67.0	103
1,2,3,7,8,9-HxCDD	50	52	32.0	81.0	103
1,2,3,4,6,7,8-HpCDF	50	53	41.0	61.0	105
1,2,3,4,7,8,9-HpCDF	50	48	39.0	69.0	97
1,2,3,4,6,7,8-HpCDD	50	51	35.0	70.0	101
OCDF	100	100	63.0	170.0	100
OCDD	100	110	78.0	144.0	115
2,3,7,8-TCDD-37Cl4	10	8.3	3.1	19.1	83
2,3,7,8-TCDF-13C	100	83	22.0	152.0	83
2,3,7,8-TCDD-13C	100	72	20.0	175.0	72
1,2,3,7,8-PeCDF-13C	100	82	21.0	192.0	82
2,3,4,7,8-PeCDF-13C	100	77	13.0	328.0	77
1,2,3,7,8-PeCDD-13C	100	81	21.0	227.0	81
1,2,3,4,7,8-HxCDF-13C	100	90	19.0	202.0	90
1,2,3,6,7,8-HxCDF-13C	100	92	21.0	159.0	92
2,3,4,6,7,8-HxCDF-13C	100	89	22.0	176.0	89
1,2,3,7,8,9-HxCDF-13C	100	68	17.0	205.0	68
1,2,3,4,7,8-HxCDD-13C	100	69	21.0	193.0	69
1,2,3,6,7,8-HxCDD-13C	100	88	25.0	163.0	88
1,2,3,4,6,7,8-HpCDF-13C	100	50	21.0	158.0	50
1,2,3,4,7,8,9-HpCDF-13C	100	55	20.0	186.0	55
1,2,3,4,6,7,8-HpCDD-13C	100	55	26.0	166.0	55
OCDD-13C	200	100	26.0	397.0	52

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCSD-115836	Matrix	Solid
Filename	F241211B_03	Dilution	NA
Total Amount Extracted	20.3 g	Extracted	11/27/2024 14:00
ICAL ID	F241015	Analyzed	12/11/2024 17:35
CCal Filename	F241211B_02	Injected By	SMT
Method Blank ID	BLANK-115815		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	11	7.5	15.8	111
2,3,7,8-TCDD	10	12	6.7	15.8	122
1,2,3,7,8-PeCDF	50	55	40.0	67.0	110
2,3,4,7,8-PeCDF	50	53	34.0	80.0	106
1,2,3,7,8-PeCDD	50	52	35.0	71.0	103
1,2,3,4,7,8-HxCDF	50	51	36.0	67.0	103
1,2,3,6,7,8-HxCDF	50	53	42.0	65.0	107
2,3,4,6,7,8-HxCDF	50	53	35.0	78.0	106
1,2,3,7,8,9-HxCDF	50	53	39.0	65.0	106
1,2,3,4,7,8-HxCDD	50	59	35.0	82.0	118
1,2,3,6,7,8-HxCDD	50	51	38.0	67.0	103
1,2,3,7,8,9-HxCDD	50	51	32.0	81.0	102
1,2,3,4,6,7,8-HpCDF	50	58	41.0	61.0	116
1,2,3,4,7,8,9-HpCDF	50	53	39.0	69.0	106
1,2,3,4,6,7,8-HpCDD	50	53	35.0	70.0	107
OCDF	100	110	63.0	170.0	106
OCDD	100	120	78.0	144.0	123
2,3,7,8-TCDD-37Cl4	10	7.3	3.1	19.1	73
2,3,7,8-TCDF-13C	100	78	22.0	152.0	78
2,3,7,8-TCDD-13C	100	69	20.0	175.0	69
1,2,3,7,8-PeCDF-13C	100	74	21.0	192.0	74
2,3,4,7,8-PeCDF-13C	100	97	13.0	328.0	97
1,2,3,7,8-PeCDD-13C	100	100	21.0	227.0	104
1,2,3,4,7,8-HxCDF-13C	100	89	19.0	202.0	89
1,2,3,6,7,8-HxCDF-13C	100	100	21.0	159.0	102
2,3,4,6,7,8-HxCDF-13C	100	90	22.0	176.0	90
1,2,3,7,8,9-HxCDF-13C	100	68	17.0	205.0	68
1,2,3,4,7,8-HxCDD-13C	100	74	21.0	193.0	74
1,2,3,6,7,8-HxCDD-13C	100	110	25.0	163.0	109
1,2,3,4,6,7,8-HpCDF-13C	100	67	21.0	158.0	67
1,2,3,4,7,8,9-HpCDF-13C	100	63	20.0	186.0	63
1,2,3,4,6,7,8-HpCDD-13C	100	70	26.0	166.0	70
OCDD-13C	200	110	26.0	397.0	54

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 1613B

Spike Recovery Relative Percent Difference (RPD) Results

Client SLR International Corporation

Spike 1 ID LCS-115816
Spike 1 Filename F241210B_02

Spike 2 ID LCSD-115836
Spike 2 Filename F241211B_03

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	104	111	6.5
2,3,7,8-TCDD	115	122	5.9
1,2,3,7,8-PeCDF	102	110	7.5
2,3,4,7,8-PeCDF	96	106	9.9
1,2,3,7,8-PeCDD	94	103	9.1
1,2,3,4,7,8-HxCDF	99	103	4.0
1,2,3,6,7,8-HxCDF	104	107	2.8
2,3,4,6,7,8-HxCDF	102	106	3.8
1,2,3,7,8,9-HxCDF	102	106	3.8
1,2,3,4,7,8-HxCDD	104	118	12.6
1,2,3,6,7,8-HxCDD	103	103	0.0
1,2,3,7,8,9-HxCDD	103	102	1.0
1,2,3,4,6,7,8-HpCDF	105	116	10.0
1,2,3,4,7,8,9-HpCDF	97	106	8.9
1,2,3,4,6,7,8-HpCDD	101	107	5.8
OCDF	100	106	5.8
OCDD	115	123	6.7

%REC = Percent Recovered

RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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**Creosote/Fuel Oil Area Hot Spot Soil Removal
Delineation Assessment: Laboratory Analytical
Reports**

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
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www.friedmanandbruya.com

June 28, 2024

Chris Kramer, Project Manager
SLR International Corp.
22118 20th Ave. SE, G-202
Bothell, WA 98021

Dear Mr Kramer:

Included are the results from the testing of material submitted on June 19, 2024 from the Nord Creosote Area 108.V20689.00001, F&BI 406268 project. There are 21 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
SLR0628R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 19, 2024 by Friedman & Bruya, Inc. from the SLR International Corp. Nord Creosote Area 108.V20689.00001, F&BI 406268 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
406268 -01	CF-P2-9-10-061724
406268 -02	CF-P8-7-8-061724
406268 -03	CF-P9-1-2-061724
406268 -04	CF-P12-6.5-7.5-061724
406268 -05	CF-P13-8-9-061724
406268 -06	CF-P14-1-2-061824
406268 -07	CF-P15-5.5-6.5-061824
406268 -08	CF-P18-6-7-061824
406268 -09	CF-P19-5.5-6.5-061824
406268 -10	CF-P20-5.5-6.5-061824
406268 -11	CF-P21-8-9-061824
406268 -12	CF-P22-8.5-9.5-061824
406268 -13	CF-P28-9-10-061824
406268 -14	CF-P31-9-10-061924
406268 -15	CF-P35-8.5-9.5-061924
406268 -16	CF-P36-8.5-9.5-061924
406268 -17	CF-P37-8-9-061924

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	CF-P2-9-10-061724	Client:	SLR International Corp.
Date Received:	06/19/24	Project:	Nord Creosote Area
Date Extracted:	06/20/24	Lab ID:	406268-01
Date Analyzed:	6/20/2024	Data File:	062037.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	90	50	150
Benz(a)anthracene-d12	107	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	<0.005
Chrysene	<0.005
Benzo(b)fluoranthene	<0.005
Benzo(k)fluoranthene	<0.005
Benzo(a)pyrene	<0.005
Indeno(1,2,3-cd)pyrene	<0.005
Dibenz(a,h)anthracene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	CF-P8-7-8-061724	Client:	SLR International Corp.
Date Received:	06/19/24	Project:	Nord Creosote Area
Date Extracted:	06/20/24	Lab ID:	406268-02
Date Analyzed:	6/20/2024	Data File:	062038.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	78	50	150
Benz(a)anthracene-d12	101	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	<0.005
Chrysene	<0.005
Benzo(b)fluoranthene	<0.005
Benzo(k)fluoranthene	<0.005
Benzo(a)pyrene	<0.005
Indeno(1,2,3-cd)pyrene	<0.005
Dibenz(a,h)anthracene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	CF-P9-1-2-061724	Client:	SLR International Corp.
Date Received:	06/19/24	Project:	Nord Creosote Area
Date Extracted:	06/20/24	Lab ID:	406268-03 1/100
Date Analyzed:	6/26/2024	Data File:	062634.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	161 d	50	150
Benz(a)anthracene-d12	127 d	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	180
Chrysene	480
Benzo(b)fluoranthene	270
Benzo(k)fluoranthene	90
Benzo(a)pyrene	210
Indeno(1,2,3-cd)pyrene	130
Dibenz(a,h)anthracene	38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	CF-P12-6.5-7.5-061724	Client:	SLR International Corp.
Date Received:	06/19/24	Project:	Nord Creosote Area
Date Extracted:	06/20/24	Lab ID:	406268-04 1/100
Date Analyzed:	6/26/2024	Data File:	062635.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	147 d	50	150
Benz(a)anthracene-d12	110 d	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	140
Chrysene	130
Benzo(b)fluoranthene	93
Benzo(k)fluoranthene	30
Benzo(a)pyrene	74
Indeno(1,2,3-cd)pyrene	32
Dibenz(a,h)anthracene	8.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	CF-P13-8-9-061724	Client:	SLR International Corp.
Date Received:	06/19/24	Project:	Nord Creosote Area
Date Extracted:	06/20/24	Lab ID:	406268-05
Date Analyzed:	6/21/2024	Data File:	062111.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	88	50	150
Benz(a)anthracene-d12	111	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	0.074
Chrysene	0.056
Benzo(b)fluoranthene	0.046
Benzo(k)fluoranthene	0.015
Benzo(a)pyrene	0.032
Indeno(1,2,3-cd)pyrene	0.011
Dibenz(a,h)anthracene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	CF-P14-1-2-061824	Client:	SLR International Corp.
Date Received:	06/19/24	Project:	Nord Creosote Area
Date Extracted:	06/20/24	Lab ID:	406268-06 1/10
Date Analyzed:	6/26/2024	Data File:	062636.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	87 d	50	150
Benz(a)anthracene-d12	87 d	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	7.4
Chrysene	16
Benzo(b)fluoranthene	21
Benzo(k)fluoranthene	6.1
Benzo(a)pyrene	16
Indeno(1,2,3-cd)pyrene	15
Dibenz(a,h)anthracene	3.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	CF-P15-5.5-6.5-061824	Client:	SLR International Corp.
Date Received:	06/19/24	Project:	Nord Creosote Area
Date Extracted:	06/20/24	Lab ID:	406268-07
Date Analyzed:	6/21/2024	Data File:	062112.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	91	50	150
Benz(a)anthracene-d12	102	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	0.072
Chrysene	0.55
Benzo(b)fluoranthene	0.037
Benzo(k)fluoranthene	0.019
Benzo(a)pyrene	0.030
Indeno(1,2,3-cd)pyrene	0.012
Dibenz(a,h)anthracene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	CF-P18-6-7-061824	Client:	SLR International Corp.
Date Received:	06/19/24	Project:	Nord Creosote Area
Date Extracted:	06/20/24	Lab ID:	406268-08
Date Analyzed:	6/21/2024	Data File:	062113.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	92	50	150
Benz(a)anthracene-d12	110	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	<0.005
Chrysene	0.0074
Benzo(b)fluoranthene	<0.005
Benzo(k)fluoranthene	0.011
Benzo(a)pyrene	<0.005
Indeno(1,2,3-cd)pyrene	<0.005
Dibenz(a,h)anthracene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	CF-P19-5.5-6.5-061824	Client:	SLR International Corp.
Date Received:	06/19/24	Project:	Nord Creosote Area
Date Extracted:	06/20/24	Lab ID:	406268-09
Date Analyzed:	6/21/2024	Data File:	062044.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	79	50	150
Benz(a)anthracene-d12	100	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	<0.005
Chrysene	0.0059
Benzo(b)fluoranthene	0.011
Benzo(k)fluoranthene	<0.005
Benzo(a)pyrene	0.0090
Indeno(1,2,3-cd)pyrene	0.0068
Dibenz(a,h)anthracene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	CF-P20-5.5-6.5-061824	Client:	SLR International Corp.
Date Received:	06/19/24	Project:	Nord Creosote Area
Date Extracted:	06/20/24	Lab ID:	406268-10
Date Analyzed:	6/21/2024	Data File:	062045.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	86	50	150
Benz(a)anthracene-d12	107	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	0.0090
Chrysene	0.020
Benzo(b)fluoranthene	0.021
Benzo(k)fluoranthene	<0.005
Benzo(a)pyrene	0.017
Indeno(1,2,3-cd)pyrene	0.017
Dibenz(a,h)anthracene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	CF-P21-8-9-061824	Client:	SLR International Corp.
Date Received:	06/19/24	Project:	Nord Creosote Area
Date Extracted:	06/20/24	Lab ID:	406268-11
Date Analyzed:	6/21/2024	Data File:	062046.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	83	50	150
Benz(a)anthracene-d12	106	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	<0.005
Chrysene	0.0052
Benzo(b)fluoranthene	<0.005
Benzo(k)fluoranthene	<0.005
Benzo(a)pyrene	<0.005
Indeno(1,2,3-cd)pyrene	<0.005
Dibenz(a,h)anthracene	<0.005

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ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	CF-P22-8.5-9.5-061824	Client:	SLR International Corp.
Date Received:	06/19/24	Project:	Nord Creosote Area
Date Extracted:	06/20/24	Lab ID:	406268-12
Date Analyzed:	6/21/2024	Data File:	062047.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	82	50	150
Benz(a)anthracene-d12	112	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	<0.005
Chrysene	0.0081
Benzo(b)fluoranthene	<0.005
Benzo(k)fluoranthene	<0.005
Benzo(a)pyrene	<0.005
Indeno(1,2,3-cd)pyrene	<0.005
Dibenz(a,h)anthracene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	CF-P28-9-10-061824	Client:	SLR International Corp.
Date Received:	06/19/24	Project:	Nord Creosote Area
Date Extracted:	06/20/24	Lab ID:	406268-13
Date Analyzed:	6/21/2024	Data File:	062048.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	85	50	150
Benz(a)anthracene-d12	109	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	<0.005
Chrysene	0.0071
Benzo(b)fluoranthene	<0.005
Benzo(k)fluoranthene	<0.005
Benzo(a)pyrene	<0.005
Indeno(1,2,3-cd)pyrene	<0.005
Dibenz(a,h)anthracene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	CF-P31-9-10-061924	Client:	SLR International Corp.
Date Received:	06/19/24	Project:	Nord Creosote Area
Date Extracted:	06/20/24	Lab ID:	406268-14
Date Analyzed:	6/21/2024	Data File:	062049.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	80	50	150
Benz(a)anthracene-d12	99	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	<0.005
Chrysene	<0.005
Benzo(b)fluoranthene	<0.005
Benzo(k)fluoranthene	<0.005
Benzo(a)pyrene	<0.005
Indeno(1,2,3-cd)pyrene	<0.005
Dibenz(a,h)anthracene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	CF-P35-8.5-9.5-061924	Client:	SLR International Corp.
Date Received:	06/19/24	Project:	Nord Creosote Area
Date Extracted:	06/20/24	Lab ID:	406268-15
Date Analyzed:	6/21/2024	Data File:	062050.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	83	50	150
Benz(a)anthracene-d12	105	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	<0.005
Chrysene	<0.005
Benzo(b)fluoranthene	<0.005
Benzo(k)fluoranthene	<0.005
Benzo(a)pyrene	<0.005
Indeno(1,2,3-cd)pyrene	<0.005
Dibenz(a,h)anthracene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	CF-P36-8.5-9.5-061924	Client:	SLR International Corp.
Date Received:	06/19/24	Project:	Nord Creosote Area
Date Extracted:	06/20/24	Lab ID:	406268-16
Date Analyzed:	6/21/2024	Data File:	062051.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	74	50	150
Benz(a)anthracene-d12	89	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	<0.005
Chrysene	<0.005
Benzo(b)fluoranthene	<0.005
Benzo(k)fluoranthene	<0.005
Benzo(a)pyrene	<0.005
Indeno(1,2,3-cd)pyrene	<0.005
Dibenz(a,h)anthracene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	CF-P37-8-9-061924	Client:	SLR International Corp.
Date Received:	06/19/24	Project:	Nord Creosote Area
Date Extracted:	06/20/24	Lab ID:	406268-17
Date Analyzed:	6/21/2024	Data File:	062052.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	86	50	150
Benz(a)anthracene-d12	110	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	<0.005
Chrysene	<0.005
Benzo(b)fluoranthene	<0.005
Benzo(k)fluoranthene	<0.005
Benzo(a)pyrene	<0.005
Indeno(1,2,3-cd)pyrene	<0.005
Dibenz(a,h)anthracene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Nord Creosote Area
Date Extracted:	06/20/24	Lab ID:	04-1431 mb
Date Analyzed:	6/20/2024	Data File:	062029.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	89	50	150
Benz(a)anthracene-d12	107	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	<0.005
Chrysene	<0.005
Benzo(b)fluoranthene	<0.005
Benzo(k)fluoranthene	<0.005
Benzo(a)pyrene	<0.005
Indeno(1,2,3-cd)pyrene	<0.005
Dibenz(a,h)anthracene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/28/24

Date Received: 06/19/24

Project: Nord Creosote Area 108.V20689.00001, F&BI 406268

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL
SAMPLES FOR PAHS BY EPA METHOD 8270E SIM**

Laboratory Code: 406224-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benz(a)anthracene	mg/kg (ppm)	0.5	<0.005	92	89	70-130	3
Chrysene	mg/kg (ppm)	0.5	<0.005	87	84	70-130	4
Benzo(b)fluoranthene	mg/kg (ppm)	0.5	<0.005	90	86	70-130	5
Benzo(k)fluoranthene	mg/kg (ppm)	0.5	<0.005	82	82	70-130	0
Benzo(a)pyrene	mg/kg (ppm)	0.5	<0.005	85	86	70-130	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.5	<0.005	75	80	70-130	6
Dibenz(a,h)anthracene	mg/kg (ppm)	0.5	<0.005	70	77	70-130	10

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benz(a)anthracene	mg/kg (ppm)	0.5	105	70-130
Chrysene	mg/kg (ppm)	0.5	98	70-130
Benzo(b)fluoranthene	mg/kg (ppm)	0.5	100	70-130
Benzo(k)fluoranthene	mg/kg (ppm)	0.5	94	70-130
Benzo(a)pyrene	mg/kg (ppm)	0.5	98	70-130
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.5	87	70-130
Dibenz(a,h)anthracene	mg/kg (ppm)	0.5	83	70-130

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 low; 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.

406268

Report To Chris KramerCompany SLRAddress 1800 Blankenship Rd #440,City, State, ZIP West Linn, OR, 97068Phone (503) 723-4423 Email ckramer@slrconsulting.com

SAMPLE CHAIN OF CUSTODY

06/19/24 G4

SAMPLERS (signature)

PROJECT NAME

Nord Creosote Area

PO #

108-V20689.00001

REMARKS

INVOICE TO

Chris Kramer 4

ap-us@slrconsulting.com

Project specific RLs? - Yes / No

Page # 1 of 2

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by:

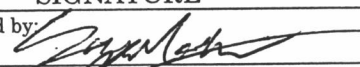
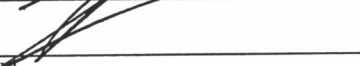
SAMPLE DISPOSAL

☐ Archive samples☐ Other

Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	CPAHs EPA 8270E			
CF-P2-9-10-061724	01	06/17/24	1100	Soil	1								X			
CF-P8-7-8-061724	02		1423										X			
CF-P9-1-2-061724	03		1440										X			
CF-P12-6-5-7-5-061724	04		1552										X			
CF-P13-8-9-061724	05		1606										X			
CF-P14-1-2-061824	06	06/18/24	926										X			
CF-P15-5-5-6-5-061824	07		930										X			
CF-P18-6-7-061824	08		1058										X			
CF-P19-5-5-6-5-061824	09		1123										X			
CF-P20-5-5-6-5-061824	10		1136										X			

Friedman & Bruya, Inc.
Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Stone Machel	SLR	06/14/24	1737
Received by: 	DOE Mohammed	FBI	06/14/24	1737
Relinquished by:		Samples received at	1	
Received by:				

SAMPLE CHAIN OF CUSTODY

06/19/24

G4

406268

Report To Chris Kramer

Company SLR Consulting

Address 1800 Blankenship Rd #440,

City, State, ZIP West Linn, OR, 97068

Phone (503) 723-4423 Email ckramer@slrconsulting.com

SAMPLERS (signature)

Stane Machel

PROJECT NAME

Nord Creosote Area

PO #

108.V20689.00001

REMARKS

INVOICE TO

Chris Kramer & ap-us@slrconsulting.com

Project specific RLs? - Yes / No

Page # 2 of 2

TURNAROUND TIME

☒ Standard turnaround

☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Archive samples

☐ Other

Default: Dispose after 30 days

						ANALYSES REQUESTED												Notes
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	PAHs EPA 8270E					
CF-P21-8-9-061824	11	06/18/24	1243	Soil	1								X					
CF-P22-8.5-9.5-061824	12	↓	1257	↓	↓								X					
CF-P28-9-10-061824	13	↓	1534	↓	↓								X					
CF-P31-9-10-061924	14	06/19/24	901	↓	↓								X					
CF-P35-8.5-9.5-061924	15	↓	1004	↓	↓								X					
CF-P36-8.5-9.5-061924	16	↓	1017	↓	↓								X					
CF-P37-8-9-061924	17	↓	1020	↓	↓								X					

Friedman & Bruya, Inc.
Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Stane Machel</u>	<u>Stane Machel</u>	<u>SLR</u>	<u>06/19/24</u>	<u>1737</u>
Received by: <u>Joe Muhammad</u>	<u>Joe Muhammad</u>	<u>FOR</u>	<u>06/19/24</u>	<u>1737</u>
Relinquished by:		Samples received at <u>1</u> of		
Received by:				

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 406263 CLIENT SLR INITIALS/ DATE: 06/19/24 BM

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 1 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/ Date: AP 06/20/24
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 0-2 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☒ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☒ Yes ☐ No	☐ Not on COC/label
Date Sampled	☒ Yes ☐ No	☐ Not on COC/label
Time Sampled	☒ Yes ☐ No	☐ Not on COC/label
# of Containers	☒ Yes ☐ No	
Relinquished	☒ Yes ☐ No	
Requested analysis	☒ Yes ☐ On Hold	

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

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 Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

June 28, 2024

Chris Kramer, Project Manager
SLR International Corp.
22118 20th Ave. SE, G-202
Bothell, WA 98021

Dear Mr Kramer:

Included are the results from the testing of material submitted on June 21, 2024 from the Nord Creosote Area 108.V20689.00001, F&BI 406327 project. There are 11 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
SLR0628R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 21, 2024 by Friedman & Bruya, Inc. from the SLR International Corp. Nord Creosote Area 108.V20689.00001, F&BI 406327 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
406327 -01	CF-P38-7-8-062024
406327 -02	CF-P39-9-10-062024
406327 -03	CF-P40-6.5-7.5-062024
406327 -04	CF-P41-7.5-8.5-062024
406327 -05	CF-P42-9-10-062024
406327 -06	CF-P44-8-9-062024
406327 -07	CF-P128-9-10-062024

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CF-P38-7-8-062024	Client:	SLR International Corp.
Date Received:	06/21/24	Project:	Nord Creosote Area
Date Extracted:	06/24/24	Lab ID:	406327-01 1/100
Date Analyzed:	6/26/2024	Data File:	062632.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	160 d	50	150
Benz(a)anthracene-d12	89 d	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	29
Chrysene	26
Benzo(b)fluoranthene	20
Benzo(k)fluoranthene	6.9
Benzo(a)pyrene	15
Indeno(1,2,3-cd)pyrene	7.1
Dibenz(a,h)anthracene	2.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CF-P39-9-10-062024	Client:	SLR International Corp.
Date Received:	06/21/24	Project:	Nord Creosote Area
Date Extracted:	06/24/24	Lab ID:	406327-02
Date Analyzed:	6/26/2024	Data File:	062631.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	93	50	150
Benz(a)anthracene-d12	108	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	<0.005
Chrysene	0.0085
Benzo(b)fluoranthene	<0.005
Benzo(k)fluoranthene	<0.005
Benzo(a)pyrene	<0.005
Indeno(1,2,3-cd)pyrene	<0.005
Dibenz(a,h)anthracene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CF-P40-6.5-7.5-062024	Client:	SLR International Corp.
Date Received:	06/21/24	Project:	Nord Creosote Area
Date Extracted:	06/24/24	Lab ID:	406327-03 1/1000
Date Analyzed:	6/26/2024	Data File:	062637.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	800 d	50	150
Benz(a)anthracene-d12	140 d	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	67
Chrysene	44
Benzo(b)fluoranthene	48
Benzo(k)fluoranthene	15
Benzo(a)pyrene	35
Indeno(1,2,3-cd)pyrene	17
Dibenz(a,h)anthracene	5.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CF-P41-7.5-8.5-062024	Client:	SLR International Corp.
Date Received:	06/21/24	Project:	Nord Creosote Area
Date Extracted:	06/24/24	Lab ID:	406327-04
Date Analyzed:	6/25/2024	Data File:	062531.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	75	50	150
Benz(a)anthracene-d12	82	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	0.012
Chrysene	0.0082
Benzo(b)fluoranthene	0.0074
Benzo(k)fluoranthene	<0.005
Benzo(a)pyrene	<0.005
Indeno(1,2,3-cd)pyrene	<0.005
Dibenz(a,h)anthracene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CF-P42-9-10-062024	Client:	SLR International Corp.
Date Received:	06/21/24	Project:	Nord Creosote Area
Date Extracted:	06/24/24	Lab ID:	406327-05
Date Analyzed:	6/25/2024	Data File:	062532.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	86	50	150
Benz(a)anthracene-d12	91	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	0.17
Chrysene	0.048
Benzo(b)fluoranthene	0.055
Benzo(k)fluoranthene	0.012
Benzo(a)pyrene	0.035
Indeno(1,2,3-cd)pyrene	0.0051
Dibenz(a,h)anthracene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CF-P44-8-9-062024	Client:	SLR International Corp.
Date Received:	06/21/24	Project:	Nord Creosote Area
Date Extracted:	06/24/24	Lab ID:	406327-06
Date Analyzed:	6/25/2024	Data File:	062533.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	92	50	150
Benz(a)anthracene-d12	96	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	0.019
Chrysene	0.034
Benzo(b)fluoranthene	0.016
Benzo(k)fluoranthene	0.0055
Benzo(a)pyrene	0.012
Indeno(1,2,3-cd)pyrene	0.0059
Dibenz(a,h)anthracene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CF-P128-9-10-062024	Client:	SLR International Corp.
Date Received:	06/21/24	Project:	Nord Creosote Area
Date Extracted:	06/24/24	Lab ID:	406327-07 1/10
Date Analyzed:	6/26/2024	Data File:	062633.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	89 d	50	150
Benz(a)anthracene-d12	98 d	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	0.54
Chrysene	0.61
Benzo(b)fluoranthene	0.86
Benzo(k)fluoranthene	0.23
Benzo(a)pyrene	0.56
Indeno(1,2,3-cd)pyrene	0.43
Dibenz(a,h)anthracene	0.14

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Nord Creosote Area
Date Extracted:	06/24/24	Lab ID:	04-1448 mb
Date Analyzed:	6/25/2024	Data File:	062438.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	93	50	150
Benz(a)anthracene-d12	97	50	150

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	<0.005
Chrysene	<0.005
Benzo(b)fluoranthene	<0.005
Benzo(k)fluoranthene	<0.005
Benzo(a)pyrene	<0.005
Indeno(1,2,3-cd)pyrene	<0.005
Dibenz(a,h)anthracene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/28/24

Date Received: 06/21/24

Project: Nord Creosote Area 108.V20689.00001, F&BI 406327

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL
SAMPLES FOR PAHS BY EPA METHOD 8270E SIM**

Laboratory Code: 406269-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benz(a)anthracene	mg/kg (ppm)	0.5	<0.005	69	72	50-150	4
Chrysene	mg/kg (ppm)	0.5	<0.005	63	66	50-150	5
Benzo(b)fluoranthene	mg/kg (ppm)	0.5	<0.005	71	72	50-150	1
Benzo(k)fluoranthene	mg/kg (ppm)	0.5	<0.005	63	64	50-150	2
Benzo(a)pyrene	mg/kg (ppm)	0.5	<0.005	70	68	50-150	3
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.5	<0.005	68	59	50-150	14
Dibenz(a,h)anthracene	mg/kg (ppm)	0.5	<0.005	63	59	50-150	7

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benz(a)anthracene	mg/kg (ppm)	0.5	87	70-130
Chrysene	mg/kg (ppm)	0.5	80	70-130
Benzo(b)fluoranthene	mg/kg (ppm)	0.5	90	70-130
Benzo(k)fluoranthene	mg/kg (ppm)	0.5	86	70-130
Benzo(a)pyrene	mg/kg (ppm)	0.5	91	70-130
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.5	82	70-130
Dibenz(a,h)anthracene	mg/kg (ppm)	0.5	78	70-130

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 low; 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 Chris Kramer

Company SLR Consulting

Address 1800 Blankenship Rd #440

City, State, ZIP West Linn, OR, 97068

Phone (803) 723-4423 Email dkramer@slrconsulting.com Project

SAMPLERS (~~signature~~)

PROJECT NAME

Nord Creosote Area

PO #

108.V20689.00001

REMARKS

INVOICE TO

Chris Kramer &

ap-us@slrconsulting.com

Project specific RLs? - Yes / No

Page # _____ of _____

• TURNAROUND TIME

☒ Standard turnaround

☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

- ☐ Archive samples

☐ Other

Default: Dispose after 30 days

						ANALYSES REQUESTED											
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	CPAHs EPA 8270E				Notes
CF-P38-7-8-062024	01	06/20/24	843	Soil	1								X				
CF-P39-9-10-062024	02	↓	858	↓	↓								X				
CF-P40-6-5-7-5-062024	03		914									X					
CF-P41-7-5-8-5-062024	04		925								X						
CF-P42-9-10-062024	05		950								X						
CF-P44-8-9-062024	06		1034								X						
CF-P128-9-10-062024	07		956								X						

Samples received at 2 °C

Friedman & Bruya, Inc.
Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Stone Machul	SLR	06/21/24	1636
Received by: 	ANH PHAN	FBI	06/21/24	16:36
Relinquished by:				
Received by:				

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 406327 CLIENT SLR INITIALS/ AP
DATE: 06/21/24

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 2 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/ (NP)
*or other representative documents, letters, and/or shipping memos Date: 06/24/24

Number of days samples have been sitting prior to receipt at laboratory 1 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☒ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label? (explain "no" answer below)

Sample ID's	☒ Yes ☐ No	☐ Not on COC/label
Date Sampled	☒ Yes ☐ No	☐ Not on COC/label
Time Sampled	☒ Yes ☐ No	☐ Not on COC/label
# of Containers	☒ Yes ☐ No	
Relinquished	☐ Yes ☐ No	
Requested analysis	☐ Yes ☐ On Hold	

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

**Creosote/Fuel Oil Area Hot Spot Shallow and
Deep Groundwater Zone: Laboratory Analytical
Reports**

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 Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

September 11, 2024

Chris Kramer, Project Manager
SLR International Corp.
22118 20th Ave. SE, G-202
Bothell, WA 98021

Dear Mr Kramer:

Included are the results from the testing of material submitted on August 30, 2024 from the Former Nord Door 108.V20689.00001, F&BI 408562 project. There are 33 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
SLR0911R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 30, 2024 by Friedman & Bruya, Inc. from the SLR International Corp. Former Nord Door 108.V20689.00001, F&BI 408562 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
408562 -01	MW-22D-082824
408562 -02	MW-23S-082824
408562 -03	MW-24S-082824
408562 -04	MW-25D-083024
408562 -05	MW-26D-082924
408562 -06	MW-27S-082924
408562 -07	MW-28D-082924
408562 -08	MW-29S-082924
408562 -09	MW-30M-082924
408562 -10	MW-31S-082924
408562 -11	MW-32D-082924
408562 -12	MW-33D-083024
408562 -13	MW-97-083024
408562 -14	TB1-083024

The samples marked for TDS analysis were sent to Alliance Technical. The report is enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-22D-082824	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/05/24	Lab ID:	408562-01
Date Analyzed:	09/05/24	Data File:	090524.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	86	113
Toluene-d8	95	88	114
4-Bromofluorobenzene	91	88	112

Compounds:	Concentration ug/L (ppb)
Naphthalene	28

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-23S-082824	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/05/24	Lab ID:	408562-02
Date Analyzed:	09/06/24	Data File:	090645.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	104	72	130

Compounds:	Concentration ug/L (ppb)
Naphthalene	140

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-24S-082824	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/05/24	Lab ID:	408562-03
Date Analyzed:	09/05/24	Data File:	090541.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	90	78	126
Toluene-d8	102	84	115
4-Bromofluorobenzene	114	72	130

Compounds:	Concentration ug/L (ppb)
Naphthalene	1.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-25D-083024	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/05/24	Lab ID:	408562-04 1/200
Date Analyzed:	09/05/24	Data File:	090530.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	86	113
Toluene-d8	96	88	114
4-Bromofluorobenzene	88	88	112

Compounds:	Concentration ug/L (ppb)
Naphthalene	13,000

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-26D-082924	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/05/24	Lab ID:	408562-05 1/5
Date Analyzed:	09/05/24	Data File:	090528.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	111	86	113
Toluene-d8	99	88	114
4-Bromofluorobenzene	90	88	112

Compounds:	Concentration ug/L (ppb)
Naphthalene	190

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-27S-082924	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/05/24	Lab ID:	408562-06 1/10
Date Analyzed:	09/06/24	Data File:	090640.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	78	126
Toluene-d8	94	84	115
4-Bromofluorobenzene	103	72	130

Compounds:	Concentration ug/L (ppb)
Naphthalene	220

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-28D-082924	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/05/24	Lab ID:	408562-07 1/10
Date Analyzed:	09/06/24	Data File:	090641.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	107	72	130

Compounds:	Concentration ug/L (ppb)
Naphthalene	430

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-29S-082924	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/05/24	Lab ID:	408562-08
Date Analyzed:	09/06/24	Data File:	090639.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	78	126
Toluene-d8	102	84	115
4-Bromofluorobenzene	107	72	130

Compounds:	Concentration ug/L (ppb)
Naphthalene	6.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-30M-082924	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/05/24	Lab ID:	408562-09 1/20
Date Analyzed:	09/06/24	Data File:	090644.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	78	126
Toluene-d8	95	84	115
4-Bromofluorobenzene	107	72	130

Compounds:	Concentration ug/L (ppb)
Naphthalene	3,500

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-31S-082924	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/05/24	Lab ID:	408562-10
Date Analyzed:	09/05/24	Data File:	090526.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	86	113
Toluene-d8	99	88	114
4-Bromofluorobenzene	89	88	112

Compounds:	Concentration ug/L (ppb)
Naphthalene	1.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-32D-082924	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/05/24	Lab ID:	408562-11 1/200
Date Analyzed:	09/05/24	Data File:	090531.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	113	86	113
Toluene-d8	96	88	114
4-Bromofluorobenzene	94	88	112

Compounds:	Concentration ug/L (ppb)
Naphthalene	12,000

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-33D-083024	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/05/24	Lab ID:	408562-12 1/200
Date Analyzed:	09/06/24	Data File:	090643.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	78	126
Toluene-d8	99	84	115
4-Bromofluorobenzene	110	72	130

Compounds:	Concentration ug/L (ppb)
Naphthalene	13,000

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-97-083024	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/05/24	Lab ID:	408562-13 1/200
Date Analyzed:	09/05/24	Data File:	090532.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	86	113
Toluene-d8	98	88	114
4-Bromofluorobenzene	94	88	112

Compounds:	Concentration ug/L (ppb)
Naphthalene	13,000

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	TB1-083024	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/05/24	Lab ID:	408562-14
Date Analyzed:	09/05/24	Data File:	090512.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	78	126
Toluene-d8	95	84	115
4-Bromofluorobenzene	97	72	130

Compounds:	Concentration ug/L (ppb)
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Former Nord Door
Date Extracted:	09/05/24	Lab ID:	04-2114 mb
Date Analyzed:	09/05/24	Data File:	090509.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	78	126
Toluene-d8	93	84	115
4-Bromofluorobenzene	100	72	130

Compounds:	Concentration ug/L (ppb)
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MW-22D-082824	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/04/24	Lab ID:	408562-01
Date Analyzed:	09/04/24	Data File:	090410.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Terphenyl-d14	82	41	138

Compounds:	Concentration ug/L (ppb)
Benz(a)anthracene	0.19
Chrysene	0.14
Benzo(a)pyrene	0.074
Benzo(b)fluoranthene	0.12
Benzo(k)fluoranthene	0.044
Indeno(1,2,3-cd)pyrene	0.025
Dibenz(a,h)anthracene	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MW-23S-082824	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/04/24	Lab ID:	408562-02
Date Analyzed:	09/04/24	Data File:	090411.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Terphenyl-d14	92	41	138

Compounds:	Concentration ug/L (ppb)
Benz(a)anthracene	1.8
Chrysene	1.2
Benzo(a)pyrene	0.85
Benzo(b)fluoranthene	1.4
Benzo(k)fluoranthene	0.42
Indeno(1,2,3-cd)pyrene	0.31
Dibenz(a,h)anthracene	0.078

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MW-24S-082824	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/04/24	Lab ID:	408562-03
Date Analyzed:	09/04/24	Data File:	090412.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Terphenyl-d14	94	41	138

Compounds:	Concentration ug/L (ppb)
Benz(a)anthracene	0.042
Chrysene	0.025
Benzo(a)pyrene	<0.02
Benzo(b)fluoranthene	0.023
Benzo(k)fluoranthene	<0.02
Indeno(1,2,3-cd)pyrene	<0.02
Dibenz(a,h)anthracene	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MW-25D-083024	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/04/24	Lab ID:	408562-04 1/500
Date Analyzed:	09/05/24	Data File:	090515.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Terphenyl-d14	100 d	41	138

Compounds:	Concentration ug/L (ppb)
Benz(a)anthracene	130
Chrysene	100
Benzo(a)pyrene	63
Benzo(b)fluoranthene	95
Benzo(k)fluoranthene	32
Indeno(1,2,3-cd)pyrene	20
Dibenz(a,h)anthracene	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MW-26D-082924	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/04/24	Lab ID:	408562-05
Date Analyzed:	09/05/24	Data File:	090511.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Terphenyl-d14	29 ip	41	138

Compounds:	Concentration ug/L (ppb)
Benz(a)anthracene	1.6
Chrysene	1.1
Benzo(a)pyrene	0.97
Benzo(b)fluoranthene	1.5
Benzo(k)fluoranthene	0.45
Indeno(1,2,3-cd)pyrene	0.25
Dibenz(a,h)anthracene	0.060

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MW-27S-082924	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/04/24	Lab ID:	408562-06
Date Analyzed:	09/05/24	Data File:	090512.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Terphenyl-d14	94	41	138

Compounds:	Concentration ug/L (ppb)
Benz(a)anthracene	0.066
Chrysene	0.038
Benzo(a)pyrene	0.028
Benzo(b)fluoranthene	0.037
Benzo(k)fluoranthene	<0.02
Indeno(1,2,3-cd)pyrene	<0.02
Dibenz(a,h)anthracene	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MW-28D-082924	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/04/24	Lab ID:	408562-07
Date Analyzed:	09/04/24	Data File:	090416.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Terphenyl-d14	41	41	138

Compounds:	Concentration ug/L (ppb)
Benz(a)anthracene	1.7
Chrysene	1.2
Benzo(a)pyrene	0.92
Benzo(b)fluoranthene	1.2
Benzo(k)fluoranthene	0.40
Indeno(1,2,3-cd)pyrene	0.26
Dibenz(a,h)anthracene	0.070

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MW-29S-082924	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/04/24	Lab ID:	408562-08
Date Analyzed:	09/04/24	Data File:	090417.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Terphenyl-d14	89	41	138

Compounds:	Concentration ug/L (ppb)
Benz(a)anthracene	0.19
Chrysene	0.15
Benzo(a)pyrene	0.10
Benzo(b)fluoranthene	0.14
Benzo(k)fluoranthene	0.050
Indeno(1,2,3-cd)pyrene	0.037
Dibenz(a,h)anthracene	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MW-30M-082924	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/04/24	Lab ID:	408562-09
Date Analyzed:	09/04/24	Data File:	090418.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Terphenyl-d14	57	41	138

Compounds:	Concentration ug/L (ppb)
Benz(a)anthracene	1.2
Chrysene	0.81
Benzo(a)pyrene	0.53
Benzo(b)fluoranthene	0.72
Benzo(k)fluoranthene	0.24
Indeno(1,2,3-cd)pyrene	0.13
Dibenz(a,h)anthracene	0.035

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MW-31S-082924	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/04/24	Lab ID:	408562-10
Date Analyzed:	09/04/24	Data File:	090419.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Terphenyl-d14	98	41	138

Compounds:	Concentration ug/L (ppb)
Benz(a)anthracene	0.10
Chrysene	0.065
Benzo(a)pyrene	0.051
Benzo(b)fluoranthene	0.073
Benzo(k)fluoranthene	0.025
Indeno(1,2,3-cd)pyrene	<0.02
Dibenz(a,h)anthracene	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MW-32D-082924	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/04/24	Lab ID:	408562-11
Date Analyzed:	09/04/24	Data File:	090420.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Terphenyl-d14	18 ip	41	138

Compounds:	Concentration ug/L (ppb)
Benz(a)anthracene	4.2
Chrysene	3.4
Benzo(a)pyrene	2.6
Benzo(b)fluoranthene	3.6
Benzo(k)fluoranthene	1.0
Indeno(1,2,3-cd)pyrene	0.79
Dibenz(a,h)anthracene	0.23

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MW-33D-083024	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/04/24	Lab ID:	408562-12 1/1000
Date Analyzed:	09/05/24	Data File:	090514.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Terphenyl-d14	0 d	41	138

Compounds:	Concentration ug/L (ppb)
Benz(a)anthracene	820
Chrysene	710
Benzo(a)pyrene	470
Benzo(b)fluoranthene	680
Benzo(k)fluoranthene	230
Indeno(1,2,3-cd)pyrene	140
Dibenz(a,h)anthracene	44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	MW-97-083024	Client:	SLR International Corp.
Date Received:	08/30/24	Project:	Former Nord Door
Date Extracted:	09/04/24	Lab ID:	408562-13 1/100
Date Analyzed:	09/05/24	Data File:	090513.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Terphenyl-d14	80 d	41	138

Compounds:	Concentration ug/L (ppb)
Benz(a)anthracene	120
Chrysene	98
Benzo(a)pyrene	64
Benzo(b)fluoranthene	97
Benzo(k)fluoranthene	32
Indeno(1,2,3-cd)pyrene	19
Dibenz(a,h)anthracene	6.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Former Nord Door
Date Extracted:	09/04/24	Lab ID:	04-2145 mb2
Date Analyzed:	09/04/24	Data File:	090407.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Terphenyl-d14	88	41	138

Compounds:	Concentration ug/L (ppb)
Benz(a)anthracene	<0.02
Chrysene	<0.02
Benzo(a)pyrene	<0.02
Benzo(b)fluoranthene	<0.02
Benzo(k)fluoranthene	<0.02
Indeno(1,2,3-cd)pyrene	<0.02
Dibenz(a,h)anthracene	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/11/24

Date Received: 08/30/24

Project: Former Nord Door 108.V20689.00001, F&BI 408562

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 408562-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance Criteria
				Recovery MS	
Naphthalene	ug/L (ppb)	10	1.1	99	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Naphthalene	ug/L (ppb)	10	99	92	70-130	7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/11/24

Date Received: 08/30/24

Project: Former Nord Door 108.V20689.00001, F&BI 408562

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benz(a)anthracene	ug/L (ppb)	10	81	88	66-131	8
Chrysene	ug/L (ppb)	10	80	88	66-129	10
Benzo(a)pyrene	ug/L (ppb)	10	81	89	66-129	9
Benzo(b)fluoranthene	ug/L (ppb)	10	81	85	55-144	5
Benzo(k)fluoranthene	ug/L (ppb)	10	81	89	58-139	9
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	10	78	89	62-136	13
Dibenz(a,h)anthracene	ug/L (ppb)	10	80	90	55-146	12

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 low; 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.

408562

SAMPLE CHAIN OF CUSTODY

08/30/24

F4/VW4

Page # 1 of 2

Report To Chris Kramer

Company SLR

Address 1500 Blankenship Road Ste 440

City, State, ZIP West Linn, OR, 97068

Phone 503-905-3205 Email ckramer@slrconsulting.com

SAMPLERS (signature)

PROJECT NAME

Former Nord Door

PO #

108-VZ0289.00001

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Archive samples☐ Other

Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED											Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	CPAHs by EPA 8270E	Naphthalene EPA 8260 D	TDS		
MW-22D-082824	01 4-B	8/28/24	1505	water	5								X	X	X		
MW-23S-082824	02	8/28/24	1402										X	X	X		
MW-24S-082824	03	8/28/24	1605										X	X	X		
MW-25D-083024	04	8/30/24	925										X	X	X		
MW-26D-082924	05	8/29/24	1810										X	X	X		
MW-27S-082924	06	8/29/24	1700										X	X	X		
MW-28D-082924	07	8/29/24	1045										X	X	X		
MW-29S-082924	08	8/29/24	915										X	X	X		
MW-30M-082924	09	8/29/24	1538										X	X	X	1543	
MW-31S-082924	10	8/29/24	1342										X	X	X		

Friedman & Bruya, Inc
 5500 4th Ave S.
 Seattle WA 98108
 (206) 285-8282
 office@friedmanandbruya.com

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Emily Hernandez	SLR	8/30/24	14:05
Received by:	Anh Phan	FBI	08/30/24	14:35
Relinquished by:		Samples received at 0 °C		
Received by:				

408562

SAMPLE CHAIN OF CUSTODY

08/30/24

F4/VW4

Page # 2 of 2

Report To Chris KramerCompany SLRAddress 1800 Blankenship Road Ste 440City, State, ZIP West Linn, OR 97068Phone 503-905-3205 Email ckramer@sircoconsulting.com

SAMPLERS (signature)

PROJECT NAME

Former Nord Door

PO #

108.V20689.00001

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Archive samples☐ Other

Default: Dispose after 30 days

						ANALYSES REQUESTED												
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	CPAHs by EPA 8270E	Naphthalene EPA 8210D	IDS	Notes		
MW-32D-082924	11A-B	8/29/24	1220	water	5								X	X	X			
MW-33D-083024	12 ↓	8/30/24	1045	↓	5								X	X	X			
MW-97-083024	13A-D	8/30/24	1015	↓	4								X	X		1025		
TB1-083024	14A-B	8/30/24	1130	↓	1									X		2 VOA's need		

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by:

Received by:

Emily HernandezAnh PhanSLRFBISamples received at 08008/30/2408/30/24140514:35

Friedman & Bruya, Inc.
 5500 4th Ave S.
 Seattle WA 98108
 (206) 285-8282
 office@friedmanandbruya.com

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 408562 CLIENT SLR INITIALS/ AP
DATE: 08/30/24

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature _____ °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/ AP
*or other representative documents, letters, and/or shipping memos Date: 09/03/24

Number of days samples have been sitting prior to receipt at laboratory 0-2 days

Are the samples clearly identified? (explain "no" answer below) ☐ YES ☒ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☐ NA ☒ YES ☒ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☒ Yes ☐ No	_____	☐ Not on COC/label
Date Sampled	☒ Yes ☐ No	_____	☐ Not on COC/label
Time Sampled	☐ Yes ☒ No	<u>label 15:43 (09A-E), 10:25 (13A-D)</u>	☐ Not on COC/label
# of Containers	☐ Yes ☒ No	<u>Rec 2 VOAs for TBI-083024 (14A-B)</u>	
Relinquished	☒ Yes ☐ No	_____	
Requested analysis	☒ Yes ☐ On Hold	_____	

Other comments (use a separate page if needed)

There are headspace on 2 VOAs -07D and -11D

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

Friedman & Bruya

Michael Erdahl

5500 4th Ave S

Seattle, WA 98108

RE: 408562,

Work Order Number: 2409009

September 09, 2024

Attention Michael Erdahl:

Fremont Analytical, Inc, an Alliance Technical Group company, received 12 sample(s) on 9/3/2024 for the analyses presented in the following report.

Total Dissolved Solids by SM 2540C

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,



Brianna Barnes

Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 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



CLIENT: Friedman & Bruya
Project: 408562
Work Order: 2409009

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2409009-001	MW-22D-082824	08/28/2024 3:05 PM	09/03/2024 12:50 PM
2409009-002	MW-23S-082824	08/28/2024 2:02 PM	09/03/2024 12:50 PM
2409009-003	MW-24S-082824	08/28/2024 4:05 PM	09/03/2024 12:50 PM
2409009-004	MW-25D-083024	08/30/2024 9:25 AM	09/03/2024 12:50 PM
2409009-005	MW-26D-082924	08/29/2024 6:10 PM	09/03/2024 12:50 PM
2409009-006	MW-27S-082924	08/29/2024 5:00 PM	09/03/2024 12:50 PM
2409009-007	MW-28D-082924	08/29/2024 10:45 AM	09/03/2024 12:50 PM
2409009-008	MW-29S-082924	08/29/2024 9:15 AM	09/03/2024 12:50 PM
2409009-009	MW-30M-082924	08/29/2024 3:38 PM	09/03/2024 12:50 PM
2409009-010	MW-31S-082924	08/29/2024 1:42 PM	09/03/2024 12:50 PM
2409009-011	MW-32D-082924	08/29/2024 12:20 PM	09/03/2024 12:50 PM
2409009-012	MW-33D-083024	08/30/2024 10:45 AM	09/03/2024 12:50 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya

Project: 408562

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

CLIENT: Friedman & Bruya
Project: 408562

Lab ID: 2409009-001 **Collection Date:** 8/28/2024 3:05:00 PM
Client Sample ID: MW-22D-082824 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Total Dissolved Solids by SM 2540C</u>				Batch ID: R94087		Analyst: BB
Total Dissolved Solids	450	5.00		mg/L	1	9/3/2024 4:21:07 PM

Lab ID: 2409009-002 **Collection Date:** 8/28/2024 2:02:00 PM
Client Sample ID: MW-23S-082824 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Total Dissolved Solids by SM 2540C</u>				Batch ID: R94087		Analyst: BB
Total Dissolved Solids	226	5.00		mg/L	1	9/3/2024 4:21:07 PM

Lab ID: 2409009-003 **Collection Date:** 8/28/2024 4:05:00 PM
Client Sample ID: MW-24S-082824 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Total Dissolved Solids by SM 2540C</u>				Batch ID: R94087		Analyst: BB
Total Dissolved Solids	453	5.00		mg/L	1	9/3/2024 4:21:07 PM

Lab ID: 2409009-004 **Collection Date:** 8/30/2024 9:25:00 AM
Client Sample ID: MW-25D-083024 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Total Dissolved Solids by SM 2540C</u>				Batch ID: R94087		Analyst: BB
Total Dissolved Solids	2,910	5.00		mg/L	1	9/3/2024 4:21:07 PM

CLIENT: Friedman & Bruya
Project: 408562

Lab ID: 2409009-005 **Collection Date:** 8/29/2024 6:10:00 PM
Client Sample ID: MW-26D-082924 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Dissolved Solids by SM 2540C Batch ID: R94087 Analyst: BB

Total Dissolved Solids	527	5.00		mg/L	1	9/3/2024 4:21:07 PM
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Lab ID: 2409009-006 **Collection Date:** 8/29/2024 5:00:00 PM
Client Sample ID: MW-27S-082924 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Dissolved Solids by SM 2540C Batch ID: R94087 Analyst: BB

Total Dissolved Solids	374	5.00		mg/L	1	9/3/2024 4:21:07 PM
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Lab ID: 2409009-007 **Collection Date:** 8/29/2024 10:45:00 AM
Client Sample ID: MW-28D-082924 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Dissolved Solids by SM 2540C Batch ID: R94087 Analyst: BB

Total Dissolved Solids	540	5.00		mg/L	1	9/3/2024 4:21:07 PM
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Lab ID: 2409009-008 **Collection Date:** 8/29/2024 9:15:00 AM
Client Sample ID: MW-29S-082924 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Dissolved Solids by SM 2540C Batch ID: R94087 Analyst: BB

Total Dissolved Solids	150	5.00		mg/L	1	9/3/2024 4:21:07 PM
------------------------	-----	------	--	------	---	---------------------

CLIENT: Friedman & Bruya
Project: 408562

Lab ID: 2409009-009 **Collection Date:** 8/29/2024 3:38:00 PM
Client Sample ID: MW-30M-082924 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Total Dissolved Solids by SM 2540C</u>				Batch ID: R94087		Analyst: BB
Total Dissolved Solids	302	5.00		mg/L	1	9/3/2024 4:21:07 PM

Lab ID: 2409009-010 **Collection Date:** 8/29/2024 1:42:00 PM
Client Sample ID: MW-31S-082924 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Total Dissolved Solids by SM 2540C</u>				Batch ID: R94087		Analyst: BB
Total Dissolved Solids	160	5.00		mg/L	1	9/3/2024 4:21:07 PM

Lab ID: 2409009-011 **Collection Date:** 8/29/2024 12:20:00 PM
Client Sample ID: MW-32D-082924 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Total Dissolved Solids by SM 2540C</u>				Batch ID: R94087		Analyst: BB
Total Dissolved Solids	769	5.00		mg/L	1	9/3/2024 4:21:07 PM

Lab ID: 2409009-012 **Collection Date:** 8/30/2024 10:45:00 AM
Client Sample ID: MW-33D-083024 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Total Dissolved Solids by SM 2540C</u>				Batch ID: R94087		Analyst: BB
Total Dissolved Solids	4,600	5.00		mg/L	1	9/3/2024 4:21:07 PM

Work Order: 2409009
CLIENT: Friedman & Bruya
Project: 408562

QC SUMMARY REPORT

Total Dissolved Solids by SM 2540C

Sample ID: MB-R94087		SampType: MBLK			Units: mg/L		Prep Date: 9/3/2024			RunNo: 94087		
Client ID: MBLKW		Batch ID: R94087			Analysis Date: 9/3/2024				SeqNo: 1965048			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Total Dissolved Solids	ND	5.00									
------------------------	----	------	--	--	--	--	--	--	--	--	--

Sample ID: LCS-R94087		SampType: LCS			Units: mg/L		Prep Date: 9/3/2024			RunNo: 94087		
Client ID: LCSW		Batch ID: R94087			Analysis Date: 9/3/2024			SeqNo: 1965049				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Total Dissolved Solids	208	5.00	300.0	0	69.3	65	135				
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Sample ID: 2409009-001ADUP		SampType: DUP			Units: mg/L		Prep Date: 9/3/2024			RunNo: 94087		
Client ID: MW-22D-082824		Batch ID: R94087			Analysis Date: 9/3/2024			SeqNo: 1965051				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Total Dissolved Solids	447	5.00						450.0	0.669	30	
------------------------	-----	------	--	--	--	--	--	-------	-------	----	--

Sample ID: 2409009-007ADUP		SampType: DUP			Units: mg/L		Prep Date: 9/3/2024			RunNo: 94087		
Client ID: MW-28D-082924		Batch ID: R94087			Analysis Date: 9/3/2024			SeqNo: 1965058				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Total Dissolved Solids	547	5.00						540.0	1.29	30	
------------------------	-----	------	--	--	--	--	--	-------	------	----	--

Client Name: FB

Work Order Number: 2409009

Logged by: Morgan Wilson

Date Received: 9/3/2024 12:50:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. 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:

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	3.0

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

2409009

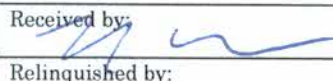
Page # 1 of 1Send Report To Michael ErdahlCompany Friedman and Bruya, Inc.Address 5500 4th Ave SCity, State, ZIP Seattle, WA 98108Phone # (206) 285-8282 merdahl@friedmanandbruya.com

SUBCONTRACTER Alliance Technical Group	
PROJECT NAME/NO. 408562	PO # E-384
REMARKS EIM	

TURNAROUND TIME	
☒ Standard TAT	
☐ RUSH	
Rush charges authorized by:	
SAMPLE DISPOSAL	
Dispose after 30 days	
Return samples	
Will call with instructions	

Sample ID	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	TDS	ANALYSES REQUESTED										Notes
MW-22D-082824		8/28/2024	1505	water	1	x											
MW-23S-082824		8/28/2024	1402	water	1	x											
MW-24S-082824		8/28/2024	1605	water	1	x											
MW-25D-083024		8/30/2024	925	water	1	x											
MW-26D-082924		8/29/2024	1810	water	1	x											
MW-27S-082924		8/29/2024	1700	water	1	x											
MW-28D-082924		8/29/2024	1045	water	1	x											
MW-29S-082924		8/29/2024	915	water	1	x											
MW-30M-082924		8/29/2024	1538	water	1	x											
MW-31S-082924		8/29/2024	1342	water	1	x											
MW-32D-082924		8/29/2024	1220	water	1	x											
MW-33D-083024		8/30/2024	1045	water	1	x											

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Michael Erdahl	Friedman & Bruya	9/2/24	0903
Received by: 	Nathan Koller	ATG	9/3/24	1250
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 Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

September 12, 2024

Chris Kramer, Project Manager
SLR International Corp.
22118 20th Ave. SE, G-202
Bothell, WA 98021

Dear Mr Kramer:

Included are the results from the testing of material submitted on August 30, 2024 from the Former Nord Door 108.V20689.00001, F&BI 408560 project. There are 4 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
SLR0912R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 30, 2024 by Friedman & Bruya, Inc. from the SLR International Corp. Former Nord Door 108.V20689.00001, F&BI 408560 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID

408560 -01

SLR International Corp.

MW-33D-082924-product

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/12/24

Date Received: 08/30/24

Project: Former Nord Door 108.V20689.00001, F&BI 408560

Date Extracted: 09/09/24

Date Analyzed: 09/09/24

**RESULTS FROM THE ANALYSIS OF PRODUCT SAMPLES
FOR SPECIFIC GRAVITY
@ 15.56 °C**

Sample ID

Laboratory ID

Specific Gravity

MW-33D-082924-product
408560-01

1.10

Note: The third significant digit is an estimate

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/12/24

Date Received: 08/30/24

Project: Former Nord Door 108.V20689.00001, F&BI 408560

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF PRODUCT SAMPLES
FOR SPECIFIC GRAVITY
@ 15.56 °C**

Laboratory Code: 408560-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Specific Gravity	1.10	1.10	0	0-2

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 low; 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.

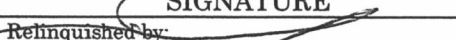
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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.

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Emily Hernandez	SLR	8/30/24	1405
Received by: 				1435
Relinquished by:				
Received by: 	Anh Phan	FBI	08/30/24	14:35

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 408560 CLIENT SLR INITIALS/ AP
DATE: 08/30/24

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 0 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/ AMB
*or other representative documents, letters, and/or shipping memos Date: 8/30

Number of days samples have been sitting prior to receipt at laboratory 1 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☒ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☒ Yes ☐ No	☐ Not on COC/label
Date Sampled	☒ Yes ☐ No	☐ Not on COC/label
Time Sampled	☒ Yes ☐ No	☐ Not on COC/label
# of Containers	☒ Yes ☐ No	
Relinquished	☐ Yes ☐ No	
Requested analysis	☒ Yes ☐ On Hold	

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☐ NA ☐ YES ☐ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

Creosote/Fuel Oil Area Hot Spot BIO System
Pilot Test: Laboratory Analytical Reports

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 Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

November 19, 2024

Chris Kramer, Project Manager
SLR International Corp.
22118 20th Ave. SE, G-202
Bothell, WA 98021

Dear Mr Kramer:

Included are the results from the testing of material submitted on November 8, 2024 from the Former Nord Door 108.V20689.00001, F&BI 411152 project. There are 6 pages included in this report.

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
SLR1119R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 8, 2024 by Friedman & Bruya, Inc. from the SLR International Corp. Former Nord Door 108.V20689.00001, F&BI 411152 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
411152 -01	SVE-101624-EFF
411152 -02	SVE-101724-EFF

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	SVE-101624-EFF	Client:	SLR International Corp.
Date Received:	11/08/24	Project:	Former Nord Door 108.V20689.00001
Date Collected:	11/16/24	Lab ID:	411152-01 1/5.6
Date Analyzed:	11/13/24	Data File:	111313.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	95	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Benzene	<1.8	<0.56
Toluene	<42	<11
Ethylbenzene	<2.4	<0.56
m,p-Xylene	9.3	2.1
o-Xylene	3.1	0.72
Naphthalene	<1.5	<0.28

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	SVE-101724-EFF	Client:	SLR International Corp.
Date Received:	11/08/24	Project:	Former Nord Door 108.V20689.00001
Date Collected:	11/16/24	Lab ID:	411152-02 1/8.1
Date Analyzed:	11/13/24	Data File:	111314.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	95	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Benzene	5.4	1.7
Toluene	170	46
Ethylbenzene	37	8.5
m,p-Xylene	170	39
o-Xylene	57	13
Naphthalene	<2.1	<0.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Former Nord Door 108.V20689.00001
Date Collected:	Not Applicable	Lab ID:	04-2768 mb
Date Analyzed:	11/13/24	Data File:	111312.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	85	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Benzene	<0.32	<0.1
Toluene	<7.5	<2
Ethylbenzene	<0.43	<0.1
m,p-Xylene	<0.87	<0.2
o-Xylene	<0.43	<0.1
Naphthalene	<0.26	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/19/24

Date Received: 11/08/24

Project: Former Nord Door 108.V20689.00001, F&BI 411152

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 411133-03 1/7.5 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Benzene	ug/m3	12	13	8
Toluene	ug/m3	57	<57	nm
Ethylbenzene	ug/m3	3.8	3.7	3
m,p-Xylene	ug/m3	8.7	8.6	1
o-Xylene	ug/m3	3.5	3.4	3
Naphthalene	ug/m3	<2	2.0	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/m3	43	115	70-130
Toluene	ug/m3	51	112	70-130
Ethylbenzene	ug/m3	59	109	70-130
m,p-Xylene	ug/m3	120	104	70-130
o-Xylene	ug/m3	59	112	70-130
Naphthalene	ug/m3	71	82	70-130

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 low; 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.

411152

SAMPLE CHAIN OF CUSTODY

11-08-24

Report To Chris KramerCompany SLRAddress 22118 20th Ave SE Ste G202City, State, ZIP Bothell, WA 98021Phone (425) 402-8800 Email ckramer@slrconsulting.com

SAMPLERS (signature)

PROJECT NAME & ADDRESS

Former Nord Door

PO #

108-V20089-0000

NOTES:

INVOICE TO

Page #

of

TURNAROUND TIME

☒ Standard

RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

Default: Clean following

final report delivery

Hold (Fee may apply): _____

SAMPLE INFORMATION

ANALYSIS REQUESTED

Lab ID	Sample Name	Flow Cont. ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	APH	Helium	Notes
01	SVE-101624-EFF	02	2305		IA / (SG)	10/16/24	29.5	11045	5	11050	X					SG = from SVE system
02	SVE-101724-EFF	74	3230		IA / (SG)	10/17/24	30	1548	5	1553	X					SG = from SVE system
					IA / SG											
					IA / SG											
					IA / SG											
					IA / SG											
					IA / SG											Samples received at 20 °C
					IA / SG											
					IA / SG											

Friedman & Bruya, Inc.
5500 4th Avenue South

Seattle, WA 98108

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE

Relinquished by:

Received by:

Relinquished by:

Received by:

PRINT NAME

Emily Hernandez
VINH

COMPANY

SLR
FBI

DATE

11/08/24
11-8-24

TIME

1255
1255

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 411152 CLIENT SLR INITIALS/ AP
DATE: 11/08/24

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 20 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☐ YES ☒ NO

How did samples arrive?
☐ Over the Counter ☒ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/ (NP)
*or other representative documents, letters, and/or shipping memos Date: 11/08

Number of days samples have been sitting prior to receipt at laboratory 21 > 22 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☒ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label? (explain "no" answer below)

Sample ID's	☒ Yes ☐ No	☐ Not on COC/label
Date Sampled	☒ Yes ☐ No	☐ Not on COC/label
Time Sampled	☒ Yes ☐ No	☐ Not on COC/label
# of Containers	☒ Yes ☐ No	
Relinquished	☒ Yes ☐ No	
Requested analysis	☒ Yes ☐ On Hold	

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

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 Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

November 22, 2024

Chris Kramer, Project Manager
SLR International Corp.
22118 20th Ave. SE, G-202
Bothell, WA 98021

Dear Mr Kramer:

Included are the results from the testing of material submitted on November 12, 2024 from the Former Nord Door 2024 108.V20689.0001, F&BI 411182 project. There are 9 pages included in this report.

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
SLR1122R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 12, 2024 by Friedman & Bruya, Inc. from the SLR International Corp. Former Nord Door 2024 108.V20689.0001, F&BI 411182 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
411182 -01	SVE-110724-EFF
411182 -02	SVE-110824-EFF

The TO-15 calibration standard for several compounds exceeded the acceptance criteria. The compounds were not detected, therefore this did not represent an out of control condition, and were qualified with a “k” qualifier.

The tetrahydrofuran concentration in the samples exceeded the calibration range of the instrument. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID: SVE-110724-EFF	Client: SLR International Corp.
Date Received: 11/12/24	Project: Former Nord Door, F&BI 411182
Date Collected: 11/07/24	Lab ID: 411182-01 1/8.0
Date Analyzed: 11/14/24	Data File: 111419.D
Matrix: Air	Instrument: GCMS8
Units: ug/m3	Operator: bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration ug/m3	ppbv	Compounds:	Concentration ug/m3	ppbv
Propene	120	70	1,2-Dichloropropane	<1.8 k	<0.4 k
Dichlorodifluoromethane	<7.9	<1.6	1,4-Dioxane	<2.9	<0.8
Chloromethane	<30	<14	2,2,4-Trimethylpentane	<37	<8
F-114	<17	<2.4	Methyl methacrylate	<33	<8
Vinyl chloride	<2 k	<0.8 k	Heptane	<33	<8
1,3-Butadiene	<0.35	<0.16	Bromodichloromethane	<0.54 k	<0.08 k
Butane	68	29	Trichloroethene	<0.86	<0.16
Bromomethane	<31	<8	cis-1,3-Dichloropropene	<7.3	<1.6
Chloroethane	<21	<8	4-Methyl-2-pentanone	<66	<16
Vinyl bromide	<3.5	<0.8	trans-1,3-Dichloropropene	<3.6	<0.8
Ethanol	<60	<32	Toluene	<60	<16
Acrolein	<0.92	<0.4	1,1,2-Trichloroethane	<0.44 k	<0.08 k
Pentane	<47	<16	2-Hexanone	<33	<8
Trichlorofluoromethane	<18	<3.2	Tetrachloroethene	<54	<8
Acetone	<38	<16	Dibromochloromethane	<0.68 k	<0.08 k
2-Propanol	<69	<28	1,2-Dibromoethane (EDB)	<0.61	<0.08
1,1-Dichloroethene	<3.2	<0.8	Chlorobenzene	<3.7	<0.8
trans-1,2-Dichloroethene	<3.2	<0.8	Ethylbenzene	<3.5	<0.8
Methylene chloride	<280	<80	1,1,2,2-Tetrachloroethane	<1.1 k	<0.16 k
t-Butyl alcohol (TBA)	<97	<32	Nonane	<42	<8
3-Chloropropene	<25	<8	Isopropylbenzene	<79	<16
CFC-113	<12	<1.6	2-Chlorotoluene	<41	<8
Carbon disulfide	<50	<16	Propylbenzene	<39	<8
Methyl t-butyl ether (MTBE)	<58	<16	4-Ethyltoluene	<39	<8
Vinyl acetate	<56	<16	m,p-Xylene	<6.9	<1.6
1,1-Dichloroethane	<3.2	<0.8	o-Xylene	<3.5	<0.8
cis-1,2-Dichloroethene	<3.2	<0.8	Styrene	<6.8	<1.6
Hexane	<28	<8	Bromoform	<17 k	<1.6 k
Chloroform	0.70	0.14	Benzyl chloride	<0.41 k	<0.08 k
Ethyl acetate	<58	<16	1,3,5-Trimethylbenzene	<39	<8
Tetrahydrofuran	570 ve	190 ve	1,2,4-Trimethylbenzene	<39	<8
2-Butanone (MEK)	<47	<16	1,3-Dichlorobenzene	<4.8	<0.8
1,2-Dichloroethane (EDC)	<0.32	<0.08	1,4-Dichlorobenzene	<1.8	<0.3
1,1,1-Trichloroethane	<4.4	<0.8	1,2-Dichlorobenzene	<4.8	<0.8
Carbon tetrachloride	<2.5	<0.4	1,2,4-Trichlorobenzene	<5.9	<0.8
Benzene	<2.6	<0.8	Naphthalene	<2.1	<0.4
Cyclohexane	<55	<16	Hexachlorobutadiene	<1.7	<0.16

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID: SVE-110824-EFF	Client: SLR International Corp.
Date Received: 11/12/24	Project: Former Nord Door, F&BI 411182
Date Collected: 11/08/24	Lab ID: 411182-02 1/7.8
Date Analyzed: 11/14/24	Data File: 111420.D
Matrix: Air	Instrument: GCMS8
Units: ug/m3	Operator: bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	93	70	130

Compounds:	Concentration ug/m3	ppbv	Compounds:	Concentration ug/m3	ppbv
Propene	61	36	1,2-Dichloropropane	<1.8 k	<0.39 k
Dichlorodifluoromethane	<7.7	<1.6	1,4-Dioxane	<2.8	<0.78
Chloromethane	<29	<14	2,2,4-Trimethylpentane	<36	<7.8
F-114	<16	<2.3	Methyl methacrylate	<32	<7.8
Vinyl chloride	<2 k	<0.78 k	Heptane	<32	<7.8
1,3-Butadiene	<0.35	<0.16	Bromodichloromethane	<0.52 k	<0.078 k
Butane	<37	<16	Trichloroethene	<0.84	<0.16
Bromomethane	<30	<7.8	cis-1,3-Dichloropropene	<7.1	<1.6
Chloroethane	<21	<7.8	4-Methyl-2-pentanone	<64	<16
Vinyl bromide	<3.4	<0.78	trans-1,3-Dichloropropene	<3.5	<0.78
Ethanol	<59	<31	Toluene	<59	<16
Acrolein	<0.89	<0.39	1,1,2-Trichloroethane	<0.43 k	<0.078 k
Pentane	<46	<16	2-Hexanone	<32	<7.8
Trichlorofluoromethane	<18	<3.1	Tetrachloroethene	<53	<7.8
Acetone	<37	<16	Dibromochloromethane	<0.66 k	<0.078 k
2-Propanol	<67	<27	1,2-Dibromoethane (EDB)	<0.6	<0.078
1,1-Dichloroethene	<3.1	<0.78	Chlorobenzene	<3.6	<0.78
trans-1,2-Dichloroethene	<3.1	<0.78	Ethylbenzene	<3.4	<0.78
Methylene chloride	<270	<78	1,1,2,2-Tetrachloroethane	<1.1 k	<0.16 k
t-Butyl alcohol (TBA)	<95	<31	Nonane	<41	<7.8
3-Chloropropene	<24	<7.8	Isopropylbenzene	<77	<16
CFC-113	<12	<1.6	2-Chlorotoluene	<40	<7.8
Carbon disulfide	<49	<16	Propylbenzene	<38	<7.8
Methyl t-butyl ether (MTBE)	<56	<16	4-Ethyltoluene	<38	<7.8
Vinyl acetate	<55	<16	m,p-Xylene	8.3	1.9
1,1-Dichloroethane	<3.2	<0.78	o-Xylene	<3.4	<0.78
cis-1,2-Dichloroethene	<3.1	<0.78	Styrene	<6.6	<1.6
Hexane	<27	<7.8	Bromoform	<16 k	<1.6 k
Chloroform	0.91	0.19	Benzyl chloride	<0.4 k	<0.078 k
Ethyl acetate	<56	<16	1,3,5-Trimethylbenzene	<38	<7.8
Tetrahydrofuran	580 ve	200 ve	1,2,4-Trimethylbenzene	<38	<7.8
2-Butanone (MEK)	<46	<16	1,3-Dichlorobenzene	<4.7	<0.78
1,2-Dichloroethane (EDC)	<0.32	<0.078	1,4-Dichlorobenzene	<1.8	<0.3
1,1,1-Trichloroethane	<4.3	<0.78	1,2-Dichlorobenzene	<4.7	<0.78
Carbon tetrachloride	<2.5	<0.39	1,2,4-Trichlorobenzene	<5.8	<0.78
Benzene	3.6	1.1	Naphthalene	<2	<0.39
Cyclohexane	<54	<16	Hexachlorobutadiene	<1.7	<0.16

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Former Nord Door, F&BI 411182
Date Collected:	Not Applicable	Lab ID:	04-2784 mb
Date Analyzed:	11/14/24	Data File:	111412.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	102	70	130

Compounds:	Concentration ug/m3	ppbv	Compounds:	Concentration ug/m3	ppbv
Propene	<1.4	<0.8	1,2-Dichloropropane	<0.23 k	<0.05 k
Dichlorodifluoromethane	<0.99	<0.2	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<2.1	<0.3	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26 k	<0.1 k	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067 k	<0.01 k
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<3.9	<1	cis-1,3-Dichloropropene	<0.91	<0.2
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<8.2	<2
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<7.5	<2
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055 k	<0.01 k
Pentane	<5.9	<2	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085 k	<0.01 k
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14 k	<0.02 k
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<3.1	<1	Isopropylbenzene	<9.8	<2
CFC-113	<1.5	<0.2	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<4.9	<1
Methyl t-butyl ether (MTBE)	<7.2	<2	4-Ethyltoluene	<4.9	<1
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1 k	<0.2 k
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052 k	<0.01 k
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<4.9	<1
Tetrahydrofuran	<0.88	<0.3	1,2,4-Trimethylbenzene	<4.9	<1
2-Butanone (MEK)	<5.9	<2	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/22/24

Date Received: 11/12/24

Project: Former Nord Door 2024 108.V20689.0001, F&BI 411182

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 411172-01 1/7.9 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Propene	ug/m3	<11	<11	nm
Dichlorodifluoromethane	ug/m3	<7.8	<7.8	nm
Chloromethane	ug/m3	<29	<29	nm
F-114	ug/m3	<17	<17	nm
Vinyl chloride	ug/m3	<2	<2	nm
1,3-Butadiene	ug/m3	<0.35	<0.35	nm
Butane	ug/m3	<38	<38	nm
Bromomethane	ug/m3	<31	<31	nm
Chloroethane	ug/m3	<21	<21	nm
Vinyl bromide	ug/m3	<3.5	<3.5	nm
Ethanol	ug/m3	<60	<60	nm
Acrolein	ug/m3	<0.91	<0.91	nm
Pentane	ug/m3	<47	<47	nm
Trichlorofluoromethane	ug/m3	<18	<18	nm
Acetone	ug/m3	91	91	0
2-Propanol	ug/m3	<68	<68	nm
1,1-Dichloroethene	ug/m3	<3.1	<3.1	nm
trans-1,2-Dichloroethene	ug/m3	<3.1	<3.1	nm
Methylene chloride	ug/m3	<270	<270	nm
t-Butyl alcohol (TBA)	ug/m3	<96	<96	nm
3-Chloropropene	ug/m3	<25	<25	nm
CFC-113	ug/m3	<12	<12	nm
Carbon disulfide	ug/m3	<49	<49	nm
Methyl t-butyl ether (MTBE)	ug/m3	<57	<57	nm
Vinyl acetate	ug/m3	<56	<56	nm
1,1-Dichloroethane	ug/m3	<3.2	<3.2	nm
cis-1,2-Dichloroethene	ug/m3	<3.1	<3.1	nm
Hexane	ug/m3	<28	<28	nm
Chloroform	ug/m3	<0.39	<0.39	nm
Ethyl acetate	ug/m3	<57	<57	nm
Tetrahydrofuran	ug/m3	<7	<7	nm
2-Butanone (MEK)	ug/m3	<47	<47	nm
1,2-Dichloroethane (EDC)	ug/m3	<0.32	<0.32	nm
1,1,1-Trichloroethane	ug/m3	<4.3	<4.3	nm
Carbon tetrachloride	ug/m3	<2.5	<2.5	nm
Benzene	ug/m3	<2.5	<2.5	nm
Cyclohexane	ug/m3	<54	<54	nm
1,2-Dichloropropane	ug/m3	<1.8	<1.8	nm
1,4-Dioxane	ug/m3	<2.8	<2.8	nm
2,2,4-Trimethylpentane	ug/m3	<37	<37	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/22/24

Date Received: 11/12/24

Project: Former Nord Door 2024 108.V20689.0001, F&BI 411182

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 411172-01 1/7.9 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Methyl methacrylate	ug/m3	<32	<32	nm
Heptane	ug/m3	<32	<32	nm
Bromodichloromethane	ug/m3	<0.53	<0.53	nm
Trichloroethene	ug/m3	<0.85	<0.85	nm
cis-1,3-Dichloropropene	ug/m3	<7.2	<7.2	nm
4-Methyl-2-pentanone	ug/m3	<65	<65	nm
trans-1,3-Dichloropropene	ug/m3	<3.6	<3.6	nm
Toluene	ug/m3	<60	<60	nm
1,1,2-Trichloroethane	ug/m3	<0.43	<0.43	nm
2-Hexanone	ug/m3	<32	<32	nm
Tetrachloroethene	ug/m3	<54	<54	nm
Dibromochloromethane	ug/m3	<0.67	<0.67	nm
1,2-Dibromoethane (EDB)	ug/m3	<0.61	<0.61	nm
Chlorobenzene	ug/m3	<3.6	<3.6	nm
Ethylbenzene	ug/m3	<3.4	<3.4	nm
1,1,2,2-Tetrachloroethane	ug/m3	<1.1	<1.1	nm
Nonane	ug/m3	<41	<41	nm
Isopropylbenzene	ug/m3	<78	<78	nm
2-Chlorotoluene	ug/m3	<41	<41	nm
Propylbenzene	ug/m3	<39	<39	nm
4-Ethyltoluene	ug/m3	<39	<39	nm
m,p-Xylene	ug/m3	<6.9	<6.9	nm
o-Xylene	ug/m3	<3.4	<3.4	nm
Styrene	ug/m3	<6.7	<6.7	nm
Bromoform	ug/m3	<16	<16	nm
Benzyl chloride	ug/m3	<0.41	<0.41	nm
1,3,5-Trimethylbenzene	ug/m3	<39	<39	nm
1,2,4-Trimethylbenzene	ug/m3	<39	<39	nm
1,3-Dichlorobenzene	ug/m3	<4.7	<4.7	nm
1,4-Dichlorobenzene	ug/m3	<1.8	<1.8	nm
1,2-Dichlorobenzene	ug/m3	<4.7	<4.7	nm
1,2,4-Trichlorobenzene	ug/m3	<5.9	<5.9	nm
Naphthalene	ug/m3	<2.1	<2.1	nm
Hexachlorobutadiene	ug/m3	<1.7	<1.7	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/22/24

Date Received: 11/12/24

Project: Former Nord Door 2024 108.V20689.0001, F&BI 411182

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Propene	ug/m3	23	110	70-130
Dichlorodifluoromethane	ug/m3	67	100	70-130
Chloromethane	ug/m3	28	90	70-130
F-114	ug/m3	94	90	70-130
Vinyl chloride	ug/m3	35	132 vo	70-130
1,3-Butadiene	ug/m3	30	105	70-130
Butane	ug/m3	32	117	70-130
Bromomethane	ug/m3	52	117	70-130
Chloroethane	ug/m3	36	115	70-130
Vinyl bromide	ug/m3	59	114	70-130
Ethanol	ug/m3	25	113	70-130
Acrolein	ug/m3	31	110	70-130
Pentane	ug/m3	40	120	70-130
Trichlorofluoromethane	ug/m3	76	98	70-130
Acetone	ug/m3	32	112	70-130
2-Propanol	ug/m3	33	100	70-130
1,1-Dichloroethene	ug/m3	54	110	70-130
trans-1,2-Dichloroethene	ug/m3	54	108	70-130
Methylene chloride	ug/m3	94	108	70-130
t-Butyl alcohol (TBA)	ug/m3	41	96	70-130
3-Chloropropene	ug/m3	42	113	70-130
CFC-113	ug/m3	100	103	70-130
Carbon disulfide	ug/m3	42	110	70-130
Methyl t-butyl ether (MTBE)	ug/m3	49	87	70-130
Vinyl acetate	ug/m3	48	121	70-130
1,1-Dichloroethane	ug/m3	55	119	70-130
cis-1,2-Dichloroethene	ug/m3	54	110	70-130
Hexane	ug/m3	48	103	70-130
Chloroform	ug/m3	66	115	70-130
Ethyl acetate	ug/m3	49	121	70-130
Tetrahydrofuran	ug/m3	40	93	70-130
2-Butanone (MEK)	ug/m3	40	104	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	113	70-130
1,1,1-Trichloroethane	ug/m3	74	110	70-130
Carbon tetrachloride	ug/m3	85	121	70-130
Benzene	ug/m3	43	104	70-130
Cyclohexane	ug/m3	46	87	70-130
1,2-Dichloropropane	ug/m3	62	139 vo	70-130
1,4-Dioxane	ug/m3	49	119	70-130
2,2,4-Trimethylpentane	ug/m3	63	120	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/22/24

Date Received: 11/12/24

Project: Former Nord Door 2024 108.V20689.0001, F&BI 411182

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Methyl methacrylate	ug/m3	55	125	70-130
Heptane	ug/m3	55	129	70-130
Bromodichloromethane	ug/m3	90	141 vo	70-130
Trichloroethene	ug/m3	73	122	70-130
cis-1,3-Dichloropropene	ug/m3	61	127	70-130
4-Methyl-2-pentanone	ug/m3	55	108	70-130
trans-1,3-Dichloropropene	ug/m3	61	129	70-130
Toluene	ug/m3	51	111	70-130
1,1,2-Trichloroethane	ug/m3	74	136 vo	70-130
2-Hexanone	ug/m3	55	130	70-130
Tetrachloroethene	ug/m3	92	128	70-130
Dibromochloromethane	ug/m3	120	150 vo	70-130
1,2-Dibromoethane (EDB)	ug/m3	100	129	70-130
Chlorobenzene	ug/m3	62	114	70-130
Ethylbenzene	ug/m3	59	106	70-130
1,1,2,2-Tetrachloroethane	ug/m3	93	136 vo	70-130
Nonane	ug/m3	71	121	70-130
Isopropylbenzene	ug/m3	66	109	70-130
2-Chlorotoluene	ug/m3	70	104	70-130
Propylbenzene	ug/m3	66	108	70-130
4-Ethyltoluene	ug/m3	66	104	70-130
m,p-Xylene	ug/m3	120	102	70-130
o-Xylene	ug/m3	59	110	70-130
Styrene	ug/m3	58	108	70-130
Bromoform	ug/m3	140	143 vo	70-130
Benzyl chloride	ug/m3	70	157 vo	70-130
1,3,5-Trimethylbenzene	ug/m3	66	109	70-130
1,2,4-Trimethylbenzene	ug/m3	66	97	70-130
1,3-Dichlorobenzene	ug/m3	81	117	70-130
1,4-Dichlorobenzene	ug/m3	81	113	70-130
1,2-Dichlorobenzene	ug/m3	81	115	70-130
1,2,4-Trichlorobenzene	ug/m3	100	86	70-130
Naphthalene	ug/m3	71	81	70-130
Hexachlorobutadiene	ug/m3	140	117	70-130

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 low; 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 between the method detection limit and the lowest calibration point. 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.

411182

SAMPLE CHAIN OF CUSTODY

11/12/24

Report To Chris KramerCompany SLRAddress 22118 20th Ave SE ste g202City, State, ZIP Bothell, WA 98021Phone (425) 402-8800 Email ckramer@slrconsulting.com

SAMPLERS (signature)

PROJECT NAME & ADDRESS

Former Nord Door - 2024

PO #

108.V020689.00001

NOTES:

INVOICE TO

Page # 1 of 1

TURNAROUND TIME

☒ Standard
RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

Default: Clean following

final report delivery

Hold (Fee may apply): _____

SAMPLE INFORMATION

ANALYSIS REQUESTED

Lab ID	Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	APH	Helium	Notes
01	SVE - 110724-EFF	68	1068		IA / (SG)	11/07/24	30	1520	5	1528	X					SG = From SVE System;
02	SVE - 110824-EFF	204			IA / (SG)	11/08/24	30	1540	5	1557	X					SG = From SVE System
					IA / SG											
					IA / SG											
					IA / SG											
					IA / SG											
					IA / SG											
					IA / SG											
					IA / SG											

Samples received at 19 °CFriedman & Bruya, Inc.
5500 4th Avenue South

Seattle, WA 98108

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COCTO-15.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Stone Mached	SLR	11/12/24	1400 1200
Received by:	VINH	FBI	11-12-24	12:00
Relinquished by:				
Received by:				

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 411182 CLIENT SLR INITIALS/ AP
DATE: 11/12/24

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 19 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☐ YES ☒ NO

How did samples arrive?
☐ Over the Counter ☒ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/ AP
*or other representative documents, letters, and/or shipping memos Date: 11/12/24

Number of days samples have been sitting prior to receipt at laboratory 4-5 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☒ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☒ Yes ☐ No	☐ Not on COC/label
Date Sampled	☒ Yes ☐ No	☐ Not on COC/label
Time Sampled	☒ Yes ☐ No	☐ Not on COC/label
# of Containers	☒ Yes ☐ No	
Relinquished	☒ Yes ☐ No	
Requested analysis	☒ Yes ☐ On Hold	

Other comments (use a separate page if needed)

No canister ID on COC.

Air Samples: Were any additional canisters/tubes received? ☐ NA ☐ YES ☒ NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____