



PES Environmental, Inc.

Bill Haldeman
2101 Fourth Avenue, Suite 1310
Seattle, WA 98121

RE: American Linen

Work Order Number: 2112063

December 16, 2021

Attention Bill Haldeman:

Fremont Analytical, Inc. received 9 sample(s) on 12/3/2021 for the analyses presented in the following report.

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 2112063

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2112063-001	MW-962-120321	12/03/2021 8:00 AM	12/03/2021 4:20 PM
2112063-002	MW-314-120321	12/03/2021 10:19 AM	12/03/2021 4:20 PM
2112063-003	MW-177-120321	12/03/2021 11:15 AM	12/03/2021 4:20 PM
2112063-004	MW-306-120321	12/03/2021 11:35 AM	12/03/2021 4:20 PM
2112063-005	MW119-120321	12/03/2021 12:10 PM	12/03/2021 4:20 PM
2112063-006	MW-179-120321	12/03/2021 12:15 PM	12/03/2021 4:20 PM
2112063-007	MW-305-120321	12/03/2021 1:00 PM	12/03/2021 4:20 PM
2112063-008	MW-180-120321	12/03/2021 1:25 PM	12/03/2021 4:20 PM
2112063-009	MW-307-120321	12/03/2021 2:50 PM	12/03/2021 4:20 PM

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

CLIENT: PES Environmental, Inc.
Project: American Linen

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.

Anions have been subcontracted due to instrument delay.



13 December 2021

Brianna Barnes
Fremont Analytical
3600 Fremont Avenue N.
Seattle, WA 98103

RE: Anions

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

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

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

Associated Work Order(s)
21L0071

Associated SDG ID(s)
N/A

Digitally signed by Shelly
Fishel
Date: 2021.12.13 18:45:02
-08'00'

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

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

Analytical Resources, LLC

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

Shelly Fishel, Project Manager





CHAIN OF CUSTODY RECORD

Omega COCID 1232 PAGE: 1 OF: 1

ADDRESS
 Fremont Analytical, Inc.
 3600 Fremont Ave. N.
 Seattle, WA 98103
 TEL: 206-352-3790
 FAX: 206-352-7178
 Website: www.fremontanalytical.com

ARI Job #: 21L0071

SUB CONTRACTOR: ARI		COMPANY: Analytical Resources Inc.		SPECIAL INSTRUCTIONS / COMMENTS: Standard TAT. Please email results to Brianna Barnes at bbarnes@fremontanalytical.com and Matt Langston at mlangston@fremontanalytical.com.					
ADDRESS: 4611 South 134th Place, Suite 100									
CITY, STATE, ZIP: Tukwila, WA 98168									
PHONE: (206) 695-6200		FAX:						EMAIL:	
ACCOUNT #:									

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.
1	2112063-001A	MW-962-120321	500 ml HDPE N	Groundwater	12/3/2021 8:00:00 AM	1	Nitrate, Chloride, and Sulfate- EPA 300.0
	TEST_SUB						
2	2112063-002A	MW-314-120321	500 ml HDPE N	Groundwater	12/3/2021 10:19:00 AM	1	Nitrate, Chloride, and Sulfate- EPA 300.0
	TEST_SUB						
3	2112063-003A	MW-177-120321	500 ml HDPE N	Groundwater	12/3/2021 11:15:00 AM	1	Nitrate, Chloride, and Sulfate- EPA 300.0
	TEST_SUB						
4	2112063-004A	MW-306-120321	500 ml HDPE N	Groundwater	12/3/2021 11:35:00 AM	1	Nitrate, Chloride, and Sulfate- EPA 300.0
	TEST_SUB						
5	2112063-005A	MW119-120321	500 ml HDPE N	Groundwater	12/3/2021 12:10:00 PM	1	Nitrate, Chloride, and Sulfate- EPA 300.0
	TEST_SUB						
6	2112063-006A	MW-179-120321	500 ml HDPE N	Groundwater	12/3/2021 12:15:00 PM	1	Nitrate, Chloride, and Sulfate- EPA 300.0
	TEST_SUB						
7	2112063-007A	MW-305-120321	500 ml HDPE N	Groundwater	12/3/2021 1:00:00 PM	1	Nitrate, Chloride, and Sulfate- EPA 300.0
	TEST_SUB						
8	2112063-008A	MW-180-120321	500 ml HDPE N	Groundwater	12/3/2021 1:25:00 PM	1	Nitrate, Chloride, and Sulfate- EPA 300.0
	TEST_SUB						
9	2112063-009A	MW-307-120321	500 ml HDPE N	Groundwater	12/3/2021 2:50:00 PM	1	Nitrate, Chloride, and Sulfate- EPA 300.0
	TEST_SUB						

Relinquished By: <i>Alex J</i>	Date: <i>12/06/21</i>	Time: <i>9:40</i>	Received By: <i>[Signature]</i>	Date: <i>12/6/21</i>	Time: <i>11:23</i>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
TAT: Standard <input type="checkbox"/> RUSH <input type="checkbox"/> Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/> Note: RUSH requests will incur surcharges!					

REPORT TRANSMITTAL DESIRED:			
<input type="checkbox"/> HARDCOPY (extra cost)	<input type="checkbox"/> FAX	<input type="checkbox"/> EMAIL	<input type="checkbox"/> ONLINE
FOR LAB USE ONLY			
Temp of samples _____ °C	Attempt to Cool? _____		
Comments: _____			



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112063
Project Manager: Brianna Barnes

Reported:
13-Dec-2021 18:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-962-120321	21L0071-01	Water	03-Dec-2021 08:00	06-Dec-2021 11:23
MW-314-120321	21L0071-02	Water	03-Dec-2021 10:19	06-Dec-2021 11:23
MW-177-120321	21L0071-03	Water	03-Dec-2021 11:15	06-Dec-2021 11:23
MW-306-120321	21L0071-04	Water	03-Dec-2021 11:35	06-Dec-2021 11:23
MW119-120321	21L0071-05	Water	03-Dec-2021 12:10	06-Dec-2021 11:23
MW-179-120321	21L0071-06	Water	03-Dec-2021 12:15	06-Dec-2021 11:23
MW-305-120321	21L0071-07	Water	03-Dec-2021 13:00	06-Dec-2021 11:23
MW-180-120321	21L0071-08	Water	03-Dec-2021 13:25	06-Dec-2021 11:23
MW-307-120321	21L0071-09	Water	03-Dec-2021 14:50	06-Dec-2021 11:23



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112063
Project Manager: Brianna Barnes

Reported:
13-Dec-2021 18:41

Work Order Case Narrative

Client: Fremont Analytical
Project: Anions
Work Order: 21L0071

Sample receipt

Samples as listed on the preceding page were received 06-Dec-2021 11:23 under ARI work order 21L0071. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times except Nitrate. The Nitrate hold time was exceeded upon sample receipt. Data has been flagged.

Initial and continuing calibrations were within method requirements.

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

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 21L0071-01 in batch B JL0144. The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Cooler Receipt Form

ARI Client: Fremont Analytical
 COC No(s): 1232 NA
 Assigned ARI Job No: 21L0071

Project Name: Anions
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
 Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
 Were custody papers included with the cooler? YES NO
 Were custody papers properly filled out (ink, signed, etc.) YES NO
 Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1123 0.3
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO J009708

Cooler Accepted by: RP Date: 12/6/21 Time: 1123

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
 What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
 Was sufficient ice used (if appropriate)? NA YES NO
 How were bottles sealed in plastic bags? Individually Grouped Not
 Did all bottles arrive in good condition (unbroken)? YES NO
 Were all bottle labels complete and legible? YES NO
 Did the number of containers listed on COC match with the number of containers received? YES NO
 Did all bottle labels and tags agree with custody papers? YES NO
 Were all bottles used correct for the requested analyses? YES NO
 Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
 Were all VOC vials free of air bubbles? NA YES NO
 Was sufficient amount of sample sent in each bottle? YES NO
 Date VOC Trip Blank was made at ARI: NA
 Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: RP Date: 12/6/21 Time: 1134 Labels checked by: _____

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

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

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-962-120321
21L0071-01 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 08:00
Instrument: IC930 Analyst: BF Analyzed: 12/06/2021 21:50

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-01 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	H, U



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-962-120321
21L0071-01RE1 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 08:00
Instrument: IC930 Analyst: BF Analyzed: 12/12/2021 07:29

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-01RE1 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	50	5.00	5.00	245	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-962-120321
21L0071-01RE2 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 08:00
Instrument: IC930 Analyst: BF Analyzed: 12/12/2021 08:29

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-01RE2 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	5	0.500	0.500	14.1	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-314-120321
21L0071-02 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 10:19
Instrument: IC930 Analyst: BF Analyzed: 12/06/2021 23:50

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-02 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	H, U



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-314-120321
21L0071-02RE1 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 10:19
Instrument: IC930 Analyst: BF Analyzed: 12/12/2021 09:28

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-02RE1 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	50	5.00	5.00	244	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-314-120321
21L0071-02RE2 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 10:19
Instrument: IC930 Analyst: BF Analyzed: 12/12/2021 09:48

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-02RE2 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	5	0.500	0.500	14.1	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-177-120321
21L0071-03 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 11:15
Instrument: IC930 Analyst: BF Analyzed: 12/07/2021 00:10

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-03 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	H, U



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-177-120321
21L0071-03RE1 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 11:15
Instrument: IC930 Analyst: BF Analyzed: 12/12/2021 10:07

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-03RE1 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	10	1.00	1.00	69.2	mg/L	D

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	10	1.00	1.00	16.4	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-306-120321
21L0071-04 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 11:35
Instrument: IC930 Analyst: BF Analyzed: 12/07/2021 00:30

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-04 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	H, U



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-306-120321
21L0071-04RE1 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 11:35
Instrument: IC930 Analyst: BF Analyzed: 12/12/2021 10:27

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-04RE1 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	10	1.00	1.00	10.0	mg/L	D

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	10	1.00	1.00	64.9	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW119-120321
21L0071-05 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 12:10
Instrument: IC930 Analyst: BF Analyzed: 12/07/2021 00:50

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-05 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	H, U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	1	0.100	0.100	7.26	mg/L	



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW119-120321
21L0071-05RE1 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 12:10
Instrument: IC930 Analyst: BF Analyzed: 12/12/2021 11:27

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-05RE1 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	5	0.500	0.500	12.5	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-179-120321
21L0071-06 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 12:15
Instrument: IC930 Analyst: BF Analyzed: 12/07/2021 01:10

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-06 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	H, U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	1	0.100	0.100	ND	mg/L	U



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-179-120321
21L0071-06RE2 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 12:15
Instrument: IC930 Analyst: BF Analyzed: 12/13/2021 15:38

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-06RE2 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	50	5.00	5.00	202	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-305-120321
21L0071-07 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 13:00
Instrument: IC930 Analyst: BF Analyzed: 12/07/2021 01:30

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-07 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	7.06	mg/L	H



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-305-120321
21L0071-07RE1 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 13:00
Instrument: IC930 Analyst: BF Analyzed: 12/12/2021 12:06

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-07RE1 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	20	2.00	2.00	31.5	mg/L	D

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	20	2.00	2.00	91.1	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-180-120321
21L0071-08 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 13:25
Instrument: IC930 Analyst: BF Analyzed: 12/07/2021 01:50

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-08 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	U, H



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-180-120321
21L0071-08RE1 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 13:25
Instrument: IC930 Analyst: BF Analyzed: 12/12/2021 12:26

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-08RE1 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	10	1.00	1.00	44.6	mg/L	D

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	10	1.00	1.00	23.3	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-307-120321
21L0071-09 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 14:50
Instrument: IC930 Analyst: BF Analyzed: 12/07/2021 02:10

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-09 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	U, H



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-307-120321
21L0071-09RE1 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 14:50
Instrument: IC930 Analyst: BF Analyzed: 12/12/2021 12:46

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-09RE1 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	20	2.00	2.00	9.87	mg/L	D

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	20	2.00	2.00	62.7	mg/L	D



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112063
Project Manager: Brianna Barnes

Reported:
13-Dec-2021 18:41

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BJL0144 - No Prep Wet Chem

Instrument: IC930 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJL0144-BLK1)						Prepared: 06-Dec-2021 Analyzed: 06-Dec-2021 19:50					
Chloride	ND	0.100	0.100	mg/L							U
Nitrate-N	ND	0.100	0.100	mg/L							U
Sulfate	ND	0.100	0.100	mg/L							U
LCS (BJL0144-BS1)						Prepared: 06-Dec-2021 Analyzed: 06-Dec-2021 20:10					
Chloride	4.82	0.100	0.100	mg/L	5.00		96.4	90-110			
Nitrate-N	5.06	0.100	0.100	mg/L	5.00		101	90-110			
Sulfate	5.24	0.100	0.100	mg/L	5.00		105	90-110			
Duplicate (BJL0144-DUP1)						Source: 21L0071-01 Prepared: 06-Dec-2021 Analyzed: 06-Dec-2021 22:10					
Nitrate-N	ND	0.100	0.100	mg/L		ND					U, H
Duplicate (BJL0144-DUP2)						Source: 21L0071-01RE1 Prepared: 06-Dec-2021 Analyzed: 12-Dec-2021 07:49					
Sulfate	246	5.00	5.00	mg/L		245			0.66	20	D
Duplicate (BJL0144-DUP3)						Source: 21L0071-01RE2 Prepared: 06-Dec-2021 Analyzed: 12-Dec-2021 08:48					
Chloride	14.2	0.500	0.500	mg/L		14.1			0.48	20	D
Matrix Spike (BJL0144-MS1)						Source: 21L0071-01 Prepared: 06-Dec-2021 Analyzed: 06-Dec-2021 22:30					
Nitrate-N	1.85	0.100	0.100	mg/L	2.00	ND	92.5	75-125			H
Recovery limits for target analytes in MS/MSD QC samples are advisory only.											
Matrix Spike (BJL0144-MS2)						Source: 21L0071-01RE1 Prepared: 06-Dec-2021 Analyzed: 12-Dec-2021 08:09					
Sulfate	632	10.0	10.0	mg/L	400	245	96.9	75-125			D
Recovery limits for target analytes in MS/MSD QC samples are advisory only.											
Matrix Spike (BJL0144-MS3)						Source: 21L0071-01RE2 Prepared: 06-Dec-2021 Analyzed: 12-Dec-2021 09:08					
Chloride	30.2	1.00	1.00	mg/L	20.0	14.1	80.3	75-125			D
Recovery limits for target analytes in MS/MSD QC samples are advisory only.											



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112063
Project Manager: Brianna Barnes

Reported:
13-Dec-2021 18:41

Certified Analyses included in this Report

Analyte	Certifications
EPA 300.0 in Water	
Chloride	DoD-ELAP,WADOE,WA-DW,NELAP
Nitrate-N	DoD-ELAP,WADOE,WA-DW,NELAP
Sulfate	DoD-ELAP,WADOE,WA-DW,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



Fremont Analytical
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Project: Anions
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13-Dec-2021 18:41

Notes and Definitions

- D The reported value is from a dilution
- H Hold time violation - Hold time was exceeded.
- U This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- [2C] Indicates this result was quantified on the second column on a dual column analysis.

Client Name: PES	Work Order Number: 2112063
Logged by: Gabrielle Coeuille	Date Received: 12/3/2021 4:20:00 PM

Chain of Custody

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

Log In

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

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text" value="Bill Halde man"/>	Date:	<input type="text" value="12/6/2021"/>
By Whom:	<input type="text" value="Gabrielle Coeuille"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Ok to proceed out of hold?"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	2.9

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



Fremont

ANALYTICAL

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Client: **PES Environmental**
Address: **2101 4th Ave #1310**
City, State, Zip: **SEATTLE WA 98121**
Telephone: **(206) 529-3980**
Fax: **(206) 529-3985**

Date: **12/3/21** Page: **1** of: **1**
Project Name: **AMERICAN LINEN**
Project No: **1413.001.02.501E**
Collected by: **MRC/RTM/SPK**
Location: **SEATTLE WA**
Report To (PM): **Bill Haldeman**
PM Email: **Bill.Haldeman@NW5.COM**

Laboratory Project No (Internal): **2112063**
Special Remarks: **48 Hr hold on Nitrate**

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCS (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DH)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDB (8011)	Comments
1 MW-962-120321	12/3/21	800	GW	8													
2 MW-314-120321		1019		8													
3 MW-177-120321		1115		8													
4 MW-306-120321		1135		8													
5 MW119-120321		1210		8													
6 MW-179-120321		1215		8													
7 MW-305-120321		1300		8													
8 MW-180-120321		1325		8													
9 MW-307-120321		1450		8													

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MICA-5 RICA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) **Hannah Cohen** Date/Time **12/3/21 16:15** Received (Signature) **Alex Trejo** Date/Time **12/03/21 16:28**
 Relinquished (Signature) **Hannah Cohen** Print Name **Hannah Cohen** Date/Time **12/3/21 16:15** Received (Signature) **Alex Trejo** Print Name **Alex Trejo** Date/Time **12/03/21 16:28**



13 December 2021

Brianna Barnes
Fremont Analytical
3600 Fremont Avenue N.
Seattle, WA 98103

RE: Anions

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

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

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

Associated Work Order(s)
21L0071

Associated SDG ID(s)
N/A

Digitally signed by Shelly Fishel
Date: 2021.12.13 18:45:02 -08'00'

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

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

Analytical Resources, LLC

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

Shelly Fishel, Project Manager





CHAIN OF CUSTODY RECORD

Omega COCID 1232 PAGE: 1 OF: 1

ADDRESS
 Fremont Analytical, Inc.
 3600 Fremont Ave. N.
 Seattle, WA 98103
 TEL: 206-352-3790
 FAX: 206-352-7178
 Website: www.fremontanalytical.com

ARI Job #: 21L0071

SUB CONTRACTOR: ARI		COMPANY: Analytical Resources Inc.		SPECIAL INSTRUCTIONS / COMMENTS: Standard TAT. Please email results to Brianna Barnes at bbarnes@fremontanalytical.com and Matt Langston at mlangston@fremontanalytical.com.			
ADDRESS: 4611 South 134th Place, Suite 100							
CITY, STATE, ZIP: Tukwila, WA 98168							
PHONE: (206) 695-6200	FAX:	EMAIL:					
ACCOUNT #:							

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.
1	2112063-001A	MW-962-120321	500 ml HDPE N	Groundwater	12/3/2021 8:00:00 AM	1	Nitrate, Chloride, and Sulfate- EPA 300.0
	TEST_SUB						
2	2112063-002A	MW-314-120321	500 ml HDPE N	Groundwater	12/3/2021 10:19:00 AM	1	Nitrate, Chloride, and Sulfate- EPA 300.0
	TEST_SUB						
3	2112063-003A	MW-177-120321	500 ml HDPE N	Groundwater	12/3/2021 11:15:00 AM	1	Nitrate, Chloride, and Sulfate- EPA 300.0
	TEST_SUB						
4	2112063-004A	MW-306-120321	500 ml HDPE N	Groundwater	12/3/2021 11:35:00 AM	1	Nitrate, Chloride, and Sulfate- EPA 300.0
	TEST_SUB						
5	2112063-005A	MW119-120321	500 ml HDPE N	Groundwater	12/3/2021 12:10:00 PM	1	Nitrate, Chloride, and Sulfate- EPA 300.0
	TEST_SUB						
6	2112063-006A	MW-179-120321	500 ml HDPE N	Groundwater	12/3/2021 12:15:00 PM	1	Nitrate, Chloride, and Sulfate- EPA 300.0
	TEST_SUB						
7	2112063-007A	MW-305-120321	500 ml HDPE N	Groundwater	12/3/2021 1:00:00 PM	1	Nitrate, Chloride, and Sulfate- EPA 300.0
	TEST_SUB						
8	2112063-008A	MW-180-120321	500 ml HDPE N	Groundwater	12/3/2021 1:25:00 PM	1	Nitrate, Chloride, and Sulfate- EPA 300.0
	TEST_SUB						
9	2112063-009A	MW-307-120321	500 ml HDPE N	Groundwater	12/3/2021 2:50:00 PM	1	Nitrate, Chloride, and Sulfate- EPA 300.0
	TEST_SUB						

Relinquished By: <i>Alex J</i>	Date: <i>12/06/21</i>	Time: <i>9:40</i>	Received By: <i>[Signature]</i>	Date: <i>12/6/21</i>	Time: <i>11:23</i>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
TAT: Standard <input type="checkbox"/> RUSH <input type="checkbox"/> Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/> Note: RUSH requests will incur surcharges!					

REPORT TRANSMITTAL DESIRED:			
<input type="checkbox"/> HARDCOPY (extra cost)	<input type="checkbox"/> FAX	<input type="checkbox"/> EMAIL	<input type="checkbox"/> ONLINE
FOR LAB USE ONLY			
Temp of samples _____ °C	Attempt to Cool? _____		
Comments: _____			



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112063
Project Manager: Brianna Barnes

Reported:
13-Dec-2021 18:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-962-120321	21L0071-01	Water	03-Dec-2021 08:00	06-Dec-2021 11:23
MW-314-120321	21L0071-02	Water	03-Dec-2021 10:19	06-Dec-2021 11:23
MW-177-120321	21L0071-03	Water	03-Dec-2021 11:15	06-Dec-2021 11:23
MW-306-120321	21L0071-04	Water	03-Dec-2021 11:35	06-Dec-2021 11:23
MW119-120321	21L0071-05	Water	03-Dec-2021 12:10	06-Dec-2021 11:23
MW-179-120321	21L0071-06	Water	03-Dec-2021 12:15	06-Dec-2021 11:23
MW-305-120321	21L0071-07	Water	03-Dec-2021 13:00	06-Dec-2021 11:23
MW-180-120321	21L0071-08	Water	03-Dec-2021 13:25	06-Dec-2021 11:23
MW-307-120321	21L0071-09	Water	03-Dec-2021 14:50	06-Dec-2021 11:23



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112063
Project Manager: Brianna Barnes

Reported:
13-Dec-2021 18:41

Work Order Case Narrative

Client: Fremont Analytical
Project: Anions
Work Order: 21L0071

Sample receipt

Samples as listed on the preceding page were received 06-Dec-2021 11:23 under ARI work order 21L0071. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times except Nitrate. The Nitrate hold time was exceeded upon sample receipt. Data has been flagged.

Initial and continuing calibrations were within method requirements.

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

The blank spike (BS/LCS) percent recoveries were within control limits.

Sample specific QC was performed in association with sample 21L0071-01 in batch B JL0144. The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Cooler Receipt Form

ARI Client: Fremont Analytical
 COC No(s): 1232 NA
 Assigned ARI Job No: 21L0071

Project Name: Anions
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
 Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
 Were custody papers included with the cooler? YES NO
 Were custody papers properly filled out (ink, signed, etc.) YES NO
 Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1123 0.3
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO J009708

Cooler Accepted by: RP Date: 12/6/21 Time: 1123

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
 What kind of packing material was used? ... Bubble Wrap Wet Ice Ice Packs Baggies Foam Block Paper Other: _____
 Was sufficient ice used (if appropriate)? NA YES NO
 How were bottles sealed in plastic bags? Individually Grouped Not
 Did all bottles arrive in good condition (unbroken)? YES NO
 Were all bottle labels complete and legible? YES NO
 Did the number of containers listed on COC match with the number of containers received? YES NO
 Did all bottle labels and tags agree with custody papers? YES NO
 Were all bottles used correct for the requested analyses? YES NO
 Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
 Were all VOC vials free of air bubbles? NA YES NO
 Was sufficient amount of sample sent in each bottle? YES NO
 Date VOC Trip Blank was made at ARI: NA
 Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: RP Date: 12/6/21 Time: 1134 Labels checked by: _____

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

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

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112063
Project Manager: Brianna Barnes

Reported:
13-Dec-2021 18:41

MW-962-120321
21L0071-01 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 12/03/2021 08:00

Instrument: IC930 Analyst: BF

Analyzed: 12/06/2021 21:50

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21L0071-01 A

Preparation Batch: BJL0144

Sample Size: 10 mL

Prepared: 12/06/2021

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	H, U



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-962-120321
21L0071-01RE1 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 08:00
Instrument: IC930 Analyst: BF Analyzed: 12/12/2021 07:29

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-01RE1 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	50	5.00	5.00	245	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-962-120321
21L0071-01RE2 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 08:00
Instrument: IC930 Analyst: BF Analyzed: 12/12/2021 08:29

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-01RE2 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	5	0.500	0.500	14.1	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-314-120321
21L0071-02 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 10:19
Instrument: IC930 Analyst: BF Analyzed: 12/06/2021 23:50

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-02 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	H, U



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-314-120321
21L0071-02RE1 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 10:19
Instrument: IC930 Analyst: BF Analyzed: 12/12/2021 09:28

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-02RE1 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	50	5.00	5.00	244	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-314-120321
21L0071-02RE2 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 10:19
Instrument: IC930 Analyst: BF Analyzed: 12/12/2021 09:48

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-02RE2 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	5	0.500	0.500	14.1	mg/L	D



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112063
Project Manager: Brianna Barnes

Reported:
13-Dec-2021 18:41

MW-177-120321
21L0071-03 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 12/03/2021 11:15

Instrument: IC930 Analyst: BF

Analyzed: 12/07/2021 00:10

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BJL0144
Prepared: 12/06/2021

Sample Size: 10 mL
Final Volume: 10 mL

Extract ID: 21L0071-03 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	H, U



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-177-120321
21L0071-03RE1 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 11:15
Instrument: IC930 Analyst: BF Analyzed: 12/12/2021 10:07

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-03RE1 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	10	1.00	1.00	69.2	mg/L	D

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	10	1.00	1.00	16.4	mg/L	D



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112063
Project Manager: Brianna Barnes

Reported:
13-Dec-2021 18:41

MW-306-120321
21L0071-04 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 12/03/2021 11:35

Instrument: IC930 Analyst: BF

Analyzed: 12/07/2021 00:30

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21L0071-04 A

Preparation Batch: BJL0144

Sample Size: 10 mL

Prepared: 12/06/2021

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	H, U



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-306-120321
21L0071-04RE1 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 11:35
Instrument: IC930 Analyst: BF Analyzed: 12/12/2021 10:27

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-04RE1 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	10	1.00	1.00	10.0	mg/L	D

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	10	1.00	1.00	64.9	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW119-120321
21L0071-05 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 12:10
Instrument: IC930 Analyst: BF Analyzed: 12/07/2021 00:50

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-05 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	H, U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	1	0.100	0.100	7.26	mg/L	



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112063
Project Manager: Brianna Barnes

Reported:
13-Dec-2021 18:41

MW119-120321
21L0071-05RE1 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 12/03/2021 12:10

Instrument: IC930 Analyst: BF

Analyzed: 12/12/2021 11:27

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BJL0144
Prepared: 12/06/2021

Sample Size: 10 mL
Final Volume: 10 mL

Extract ID: 21L0071-05RE1 A

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	5	0.500	0.500	12.5	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-179-120321
21L0071-06 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 12:15
Instrument: IC930 Analyst: BF Analyzed: 12/07/2021 01:10

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-06 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	H, U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	1	0.100	0.100	ND	mg/L	U



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-179-120321
21L0071-06RE2 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 12:15
Instrument: IC930 Analyst: BF Analyzed: 12/13/2021 15:38

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-06RE2 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	50	5.00	5.00	202	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-305-120321
21L0071-07 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 13:00
Instrument: IC930 Analyst: BF Analyzed: 12/07/2021 01:30

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-07 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	7.06	mg/L	H



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-305-120321
21L0071-07RE1 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 13:00
Instrument: IC930 Analyst: BF Analyzed: 12/12/2021 12:06

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-07RE1 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	20	2.00	2.00	31.5	mg/L	D

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	20	2.00	2.00	91.1	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-180-120321
21L0071-08 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 13:25
Instrument: IC930 Analyst: BF Analyzed: 12/07/2021 01:50

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-08 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	U, H



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-180-120321
21L0071-08RE1 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 13:25
Instrument: IC930 Analyst: BF Analyzed: 12/12/2021 12:26

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-08RE1 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	10	1.00	1.00	44.6	mg/L	D

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	10	1.00	1.00	23.3	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-307-120321
21L0071-09 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 14:50
Instrument: IC930 Analyst: BF Analyzed: 12/07/2021 02:10

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-09 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	U, H



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112063 Project Manager: Brianna Barnes	Reported: 13-Dec-2021 18:41
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MW-307-120321
21L0071-09RE1 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/03/2021 14:50
Instrument: IC930 Analyst: BF Analyzed: 12/12/2021 12:46

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0071-09RE1 A
Preparation Batch: BJL0144 Sample Size: 10 mL
Prepared: 12/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	20	2.00	2.00	9.87	mg/L	D

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	20	2.00	2.00	62.7	mg/L	D



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112063
Project Manager: Brianna Barnes

Reported:
13-Dec-2021 18:41

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BJL0144 - No Prep Wet Chem

Instrument: IC930 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJL0144-BLK1)						Prepared: 06-Dec-2021 Analyzed: 06-Dec-2021 19:50					
Chloride	ND	0.100	0.100	mg/L							U
Nitrate-N	ND	0.100	0.100	mg/L							U
Sulfate	ND	0.100	0.100	mg/L							U
LCS (BJL0144-BS1)						Prepared: 06-Dec-2021 Analyzed: 06-Dec-2021 20:10					
Chloride	4.82	0.100	0.100	mg/L	5.00		96.4	90-110			
Nitrate-N	5.06	0.100	0.100	mg/L	5.00		101	90-110			
Sulfate	5.24	0.100	0.100	mg/L	5.00		105	90-110			
Duplicate (BJL0144-DUP1)						Source: 21L0071-01 Prepared: 06-Dec-2021 Analyzed: 06-Dec-2021 22:10					
Nitrate-N	ND	0.100	0.100	mg/L		ND					U, H
Duplicate (BJL0144-DUP2)						Source: 21L0071-01RE1 Prepared: 06-Dec-2021 Analyzed: 12-Dec-2021 07:49					
Sulfate	246	5.00	5.00	mg/L		245			0.66	20	D
Duplicate (BJL0144-DUP3)						Source: 21L0071-01RE2 Prepared: 06-Dec-2021 Analyzed: 12-Dec-2021 08:48					
Chloride	14.2	0.500	0.500	mg/L		14.1			0.48	20	D
Matrix Spike (BJL0144-MS1)						Source: 21L0071-01 Prepared: 06-Dec-2021 Analyzed: 06-Dec-2021 22:30					
Nitrate-N	1.85	0.100	0.100	mg/L	2.00	ND	92.5	75-125			H
Recovery limits for target analytes in MS/MSD QC samples are advisory only.											
Matrix Spike (BJL0144-MS2)						Source: 21L0071-01RE1 Prepared: 06-Dec-2021 Analyzed: 12-Dec-2021 08:09					
Sulfate	632	10.0	10.0	mg/L	400	245	96.9	75-125			D
Recovery limits for target analytes in MS/MSD QC samples are advisory only.											
Matrix Spike (BJL0144-MS3)						Source: 21L0071-01RE2 Prepared: 06-Dec-2021 Analyzed: 12-Dec-2021 09:08					
Chloride	30.2	1.00	1.00	mg/L	20.0	14.1	80.3	75-125			D
Recovery limits for target analytes in MS/MSD QC samples are advisory only.											



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112063
Project Manager: Brianna Barnes

Reported:
13-Dec-2021 18:41

Certified Analyses included in this Report

Analyte	Certifications
EPA 300.0 in Water	
Chloride	DoD-ELAP,WADOE,WA-DW,NELAP
Nitrate-N	DoD-ELAP,WADOE,WA-DW,NELAP
Sulfate	DoD-ELAP,WADOE,WA-DW,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112063
Project Manager: Brianna Barnes

Reported:
13-Dec-2021 18:41

Notes and Definitions

- D The reported value is from a dilution
- H Hold time violation - Hold time was exceeded.
- U This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- [2C] Indicates this result was quantified on the second column on a dual column analysis.



Fremont
Analytical

3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

PES Environmental, Inc.

Bill Haldeman

2101 Fourth Avenue, Suite 1310

Seattle, WA 98121

RE: American Linen

Work Order Number: 2112080

December 21, 2021

Attention Bill Haldeman:

Fremont Analytical, Inc. received 2 sample(s) on 12/6/2021 for the analyses presented in the following report.

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com



Date: 12/21/2021

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 2112080

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2112080-001	MW-178-120621	12/06/2021 9:30 AM	12/06/2021 2:27 PM
2112080-002	MW106-120621	12/06/2021 11:45 AM	12/06/2021 2:27 PM

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

Original

CLIENT: PES Environmental, Inc.

Project: American Linen

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.

Anions by EPA method 300.0 have been subcontracted due to instrument delay.



16 December 2021

Brianna Barnes
Fremont Analytical
3600 Fremont Avenue N.
Seattle, WA 98103

RE: Anions

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

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

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

Associated Work Order(s)
21L0094

Associated SDG ID(s)
N/A

Digitally signed by
Shelly Fishel
Date: 2021.12.16
19:01:29 -08'00'

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

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

Analytical Resources, LLC

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

Shelly Fishel, Project Manager





CHAIN OF CUSTODY RECORD

Omega COCID 1235

PAGE: 1

OF: 1

ADDRESS

Fremont Analytical, Inc.
 3600 Fremont Ave. N.
 Seattle, WA 98103
 TEL: 206-352-3790
 FAX: 206-352-7178

Website: www.fremontanalytical.com

ARI Job #: 21L0094

SUB CONTRACTOR: ARI		COMPANY: Analytical Resources Inc.		SPECIAL INSTRUCTIONS / COMMENTS: Standard TAT. Please email results to Brianna Barnes at bbarnes@fremontanalytical.com and Matt Langston at mlangston@fremontanalytical.com.					
ADDRESS: 4611 South 134th Place, Suite 100									
CITY, STATE, ZIP: Tukwila, WA 98168									
PHONE: (206) 695-6200		FAX:						EMAIL:	
ACCOUNT #:									

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.
1	2112080-001A	MW-178-120621	250 HDPE NON	Groundwater	12/6/2021 9:30:00 AM	1	Nitrate, Chloride, and Sulfate by 300.0
	TEST_SUB						
2	2112080-002A	MW106-120621	250 HDPE NON	Groundwater	12/6/2021 11:45:00 AM	1	Nitrate, Chloride, and Sulfate by 300.0
	TEST_SUB						

Relinquished By: <i>Justin Monty</i>	Date: <i>12/17</i>	Time: <i>8:24</i>	Received By: <i>[Signature]</i>	Date: <i>12/17</i>	Time: <i>11:00 AM</i>	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE FOR LAB USE ONLY Temp of samples _____ °C Attempt to Cool? _____ Comments: _____
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT: Standard <input type="checkbox"/> RUSH Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/> Note: RUSH requests will incur surcharges!						Page 5 of 16



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112080
Project Manager: Brianna Barnes

Reported:
16-Dec-2021 18:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-178-120621	21L0094-01	Water	06-Dec-2021 09:30	07-Dec-2021 10:55
MW106-120621	21L0094-02	Water	06-Dec-2021 11:45	07-Dec-2021 10:55



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112080
Project Manager: Brianna Barnes

Reported:
16-Dec-2021 18:57

Work Order Case Narrative

Client: Fremont Analytical
Project: Anions
Work Order: 21L0094

Sample receipt

Samples as listed on the preceding page were received 07-Dec-2021 10:55 under ARI work order 21L0094. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

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

Initial and continuing calibrations were within method requirements.

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

The blank spike (BS/LCS) percent recoveries were within control limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Cooler Receipt Form

ARI Client: Fremont

Project Name: Arions

COC No(s): 1235

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

Assigned ARI Job No: 21L0094

Tracking No: _____ NA

NA
RP 12/7/21

Preliminary Examination Phase:

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

Were custody papers included with the cooler? YES NO

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

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

Time 1055 -5.7

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

Temp Gun ID#: DOO 1565

Cooler Accepted by: DC

Date: 12/07/21

Time: 1055

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: RP 12/7/21

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

How were bottles sealed in plastic bags? Individually Grouped Not

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

Were all bottle labels complete and legible? YES NO

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

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

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

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

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

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

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: RC Date: 12/7/21 Time: 1111 Labels checked by: _____

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

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

Additional Notes, Discrepancies, & Resolutions:

Sample Received below 0C, some samples were frozen upon arrival.
Frozen sample: MW106 - 120621

By: DC Date: 12/07/21



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112080 Project Manager: Brianna Barnes	Reported: 16-Dec-2021 18:57
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MW-178-120621
21L0094-01 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/06/2021 09:30
Instrument: IC930 Analyst: BF Analyzed: 12/07/2021 22:29

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0094-01 A
Preparation Batch: BJL0175 Sample Size: 10 mL
Prepared: 12/07/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	1	0.100	0.100	0.145	mg/L	



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112080 Project Manager: Brianna Barnes	Reported: 16-Dec-2021 18:57
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MW-178-120621
21L0094-01RE1 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/06/2021 09:30
Instrument: IC930 Analyst: BF Analyzed: 12/15/2021 19:19

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0094-01RE1 A
Preparation Batch: BJL0175 Sample Size: 10 mL
Prepared: 12/07/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	20	2.00	2.00	96.9	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112080 Project Manager: Brianna Barnes	Reported: 16-Dec-2021 18:57
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MW106-120621
21L0094-02 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/06/2021 11:45
Instrument: IC930 Analyst: BF Analyzed: 12/07/2021 23:30

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0094-02 A
Preparation Batch: BJL0175 Sample Size: 10 mL
Prepared: 12/07/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	1	0.100	0.100	4.61	mg/L	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	1	0.100	0.100	7.14	mg/L	



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112080 Project Manager: Brianna Barnes	Reported: 16-Dec-2021 18:57
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Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BJL0175 - No Prep Wet Chem

Instrument: IC930 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJL0175-BLK1)						Prepared: 07-Dec-2021 Analyzed: 07-Dec-2021 21:49					
Chloride	ND	0.100	0.100	mg/L							U
Nitrate-N	ND	0.100	0.100	mg/L							U
Sulfate	ND	0.100	0.100	mg/L							U
LCS (BJL0175-BS1)						Prepared: 07-Dec-2021 Analyzed: 07-Dec-2021 22:09					
Chloride	4.83	0.100	0.100	mg/L	5.00		96.7	90-110			
Nitrate-N	5.08	0.100	0.100	mg/L	5.00		102	90-110			
Sulfate	5.26	0.100	0.100	mg/L	5.00		105	90-110			
Duplicate (BJL0175-DUP1)						Source: 21L0094-01 Prepared: 07-Dec-2021 Analyzed: 07-Dec-2021 22:50					
Nitrate-N	ND	0.100	0.100	mg/L		ND					U
Sulfate	0.142	0.100	0.100	mg/L		0.145			2.09	20	
Duplicate (BJL0175-DUP2)						Source: 21L0094-01RE1 Prepared: 07-Dec-2021 Analyzed: 15-Dec-2021 19:39					
Chloride	97.7	2.00	2.00	mg/L		96.9			0.82	20	D
Matrix Spike (BJL0175-MS1)						Source: 21L0094-01 Prepared: 07-Dec-2021 Analyzed: 07-Dec-2021 23:10					
Nitrate-N	1.81	0.100	0.100	mg/L	2.00	ND	90.5	75-125			
Sulfate	2.04	0.100	0.100	mg/L	2.00	0.145	94.5	75-125			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.											
Matrix Spike (BJL0175-MS2)						Source: 21L0094-01RE1 Prepared: 07-Dec-2021 Analyzed: 15-Dec-2021 19:59					
Chloride	276	5.00	5.00	mg/L	200	96.9	89.3	75-125			D
Recovery limits for target analytes in MS/MSD QC samples are advisory only.											



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112080
Project Manager: Brianna Barnes

Reported:
16-Dec-2021 18:57

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 300.0 in Water</i>	
Chloride	DoD-ELAP,WADOE,WA-DW,NELAP
Nitrate-N	DoD-ELAP,WADOE,WA-DW,NELAP
Sulfate	DoD-ELAP,WADOE,WA-DW,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112080
Project Manager: Brianna Barnes

Reported:
16-Dec-2021 18:57

Notes and Definitions

- D The reported value is from a dilution
- U This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- [2C] Indicates this result was quantified on the second column on a dual column analysis.

Client Name: **PES**

 Work Order Number: **2112080**

 Logged by: **Gabrielle Coeulle**

 Date Received: **12/6/2021 2:27:00 PM**

Chain of Custody

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

Log In

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

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	5.3

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



Fremont
Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 12-6-21

Page: 1 of 1

Project Name: American Liner

Laboratory Project No (Internal): 2112080

Client: FES ENVIRONMENTAL

Project No: 1413.061.05 604

Address: 2101 4th Ave Ste 1310

Collected by: R. McLaughlin / H. Cohen

City, State, Zip: SEATTLE WA 98101

Location: SEATTLE WA

Telephone: 206 529 3980

Report To (PM): B. Halderman

Sample Disposal Return to client Disposal by lab (after 30 days)

Fax: PM Email: Bill.Halderman@NVS.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes												Comments			
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heav Oil Range Organics (DRO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (801)				
1 MW-178-120621	12/6/21	930	GW	1																
2 MW106-120621	12/6/21	1145	GW	1																
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide Phosphate Fluoride Nitrate-Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature):

Print Name: R.T. McLaughlin

Date/Time: 12/6/21 14:16

Relinquished (Signature):

Print Name: Alex Trigo

Date/Time: 12/10/21 14:27



Analytical Resources, LLC
Analytical Chemists and Consultants

16 December 2021

Brianna Barnes
Fremont Analytical
3600 Fremont Avenue N.
Seattle, WA 98103

RE: Anions

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

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

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

Associated Work Order(s)
21L0094

Associated SDG ID(s)
N/A

Digitally signed by
Shelly Fishel
Date: 2021.12.16
19:01:29 -08'00'

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

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

Analytical Resources, LLC

Shelly Fishel, Project Manager

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





CHAIN OF CUSTODY RECORD

Omega COCID 1235

PAGE: 1

OF: 1

ADDRESS

Fremont Analytical, Inc.
3600 Fremont Ave. N.
Seattle, WA 98103
TEL: 206-352-3790
FAX: 206-352-7178

Website: www.fremontanalytical.com

ARI Job #: 21L0094

SUB CONTRACTOR: ARI		COMPANY: Analytical Resources Inc.		SPECIAL INSTRUCTIONS / COMMENTS: Standard TAT. Please email results to Brianna Barnes at bbarnes@fremontanalytical.com and Matt Langston at mlangston@fremontanalytical.com.					
ADDRESS: 4611 South 134th Place, Suite 100									
CITY, STATE, ZIP: Tukwila, WA 98168									
PHONE: (206) 695-6200		FAX:						EMAIL:	
ACCOUNT #:									

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.
1	2112080-001A	MW-178-120621	250 HDPE NON	Groundwater	12/6/2021 9:30:00 AM	1	Nitrate, Chloride, and Sulfate by 300.0
	TEST_SUB						
2	2112080-002A	MW106-120621	250 HDPE NON	Groundwater	12/6/2021 11:45:00 AM	1	Nitrate, Chloride, and Sulfate by 300.0
	TEST_SUB						

Relinquished By: <i>Justin Monty</i>	Date: <i>12/17</i>	Time: <i>8:24</i>	Received By: <i>[Signature]</i>	Date: <i>12/16</i>	Time: <i>11:45</i>	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE FOR LAB USE ONLY Temp of samples _____ °C Attempt to Cool? _____ Comments: _____
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT: Standard <input type="checkbox"/> RUSH Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>						
Note: RUSH requests will incur surcharges!						



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112080
Project Manager: Brianna Barnes

Reported:
16-Dec-2021 18:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-178-120621	21L0094-01	Water	06-Dec-2021 09:30	07-Dec-2021 10:55
MW106-120621	21L0094-02	Water	06-Dec-2021 11:45	07-Dec-2021 10:55



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112080
Project Manager: Brianna Barnes

Reported:
16-Dec-2021 18:57

Work Order Case Narrative

Client: Fremont Analytical
Project: Anions
Work Order: 21L0094

Sample receipt

Samples as listed on the preceding page were received 07-Dec-2021 10:55 under ARI work order 21L0094. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

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

Initial and continuing calibrations were within method requirements.

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

The blank spike (BS/LCS) percent recoveries were within control limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



Cooler Receipt Form

ARI Client: Fremont Project Name: Arions
 COC No(s): 1235 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
 Assigned ARI Job No: 21L0094 Tracking No: _____ (NA)
NA RP 12/7/21

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
 Were custody papers included with the cooler? YES NO
 Were custody papers properly filled out (ink, signed, etc.) YES NO
 Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1055 -5.7
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO 1585

Cooler Accepted by: DC Date: 12/07/21 Time: 1055

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
 What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: RP 12/7/21
 Was sufficient ice used (if appropriate)? NA YES NO
 How were bottles sealed in plastic bags? Individually Grouped Not
 Did all bottles arrive in good condition (unbroken)? YES NO
 Were all bottle labels complete and legible? YES NO
 Did the number of containers listed on COC match with the number of containers received? YES NO
 Did all bottle labels and tags agree with custody papers? YES NO
 Were all bottles used correct for the requested analyses? YES NO
 Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
 Were all VOC vials free of air bubbles? NA YES NO
 Was sufficient amount of sample sent in each bottle? YES NO
 Date VOC Trip Blank was made at ARI: NA
 Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: RP Date: 12/7/21 Time: 1111 Labels checked by: _____

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

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

Additional Notes, Discrepancies, & Resolutions:

Sample Received below 0C, some samples were frozen upon arrival.
Frozen sample: MW106 - 120621

By: DC Date: 12/07/21



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112080 Project Manager: Brianna Barnes	Reported: 16-Dec-2021 18:57
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MW-178-120621
21L0094-01 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/06/2021 09:30
Instrument: IC930 Analyst: BF Analyzed: 12/07/2021 22:29

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0094-01 A
Preparation Batch: BJL0175 Sample Size: 10 mL
Prepared: 12/07/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	1	0.100	0.100	0.145	mg/L	



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112080
Project Manager: Brianna Barnes

Reported:
16-Dec-2021 18:57

MW-178-120621
21L0094-01RE1 (Water)

Wet Chemistry

Method: EPA 300.0

Sampled: 12/06/2021 09:30

Instrument: IC930 Analyst: BF

Analyzed: 12/15/2021 19:19

Analysis by: Analytical Resources, LLC

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 21L0094-01RE1 A

Preparation Batch: BJL0175

Sample Size: 10 mL

Prepared: 12/07/2021

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	20	2.00	2.00	96.9	mg/L	D



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112080 Project Manager: Brianna Barnes	Reported: 16-Dec-2021 18:57
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MW106-120621
21L0094-02 (Water)

Wet Chemistry

Method: EPA 300.0 Sampled: 12/06/2021 11:45
Instrument: IC930 Analyst: BF Analyzed: 12/07/2021 23:30

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 21L0094-02 A
Preparation Batch: B JL0175 Sample Size: 10 mL
Prepared: 12/07/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chloride	16887-00-6	1	0.100	0.100	4.61	mg/L	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Nitrate-N	14797-55-8	1	0.100	0.100	ND	mg/L	U

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Sulfate	14808-79-8	1	0.100	0.100	7.14	mg/L	



Fremont Analytical 3600 Fremont Avenue N. Seattle WA, 98103	Project: Anions Project Number: 2112080 Project Manager: Brianna Barnes	Reported: 16-Dec-2021 18:57
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Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BJL0175 - No Prep Wet Chem

Instrument: IC930 Analyst: BF

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJL0175-BLK1)						Prepared: 07-Dec-2021 Analyzed: 07-Dec-2021 21:49					
Chloride	ND	0.100	0.100	mg/L							U
Nitrate-N	ND	0.100	0.100	mg/L							U
Sulfate	ND	0.100	0.100	mg/L							U
LCS (BJL0175-BS1)						Prepared: 07-Dec-2021 Analyzed: 07-Dec-2021 22:09					
Chloride	4.83	0.100	0.100	mg/L	5.00		96.7	90-110			
Nitrate-N	5.08	0.100	0.100	mg/L	5.00		102	90-110			
Sulfate	5.26	0.100	0.100	mg/L	5.00		105	90-110			
Duplicate (BJL0175-DUP1)						Source: 21L0094-01 Prepared: 07-Dec-2021 Analyzed: 07-Dec-2021 22:50					
Nitrate-N	ND	0.100	0.100	mg/L		ND					U
Sulfate	0.142	0.100	0.100	mg/L		0.145			2.09	20	
Duplicate (BJL0175-DUP2)						Source: 21L0094-01RE1 Prepared: 07-Dec-2021 Analyzed: 15-Dec-2021 19:39					
Chloride	97.7	2.00	2.00	mg/L		96.9			0.82	20	D
Matrix Spike (BJL0175-MS1)						Source: 21L0094-01 Prepared: 07-Dec-2021 Analyzed: 07-Dec-2021 23:10					
Nitrate-N	1.81	0.100	0.100	mg/L	2.00	ND	90.5	75-125			
Sulfate	2.04	0.100	0.100	mg/L	2.00	0.145	94.5	75-125			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.											
Matrix Spike (BJL0175-MS2)						Source: 21L0094-01RE1 Prepared: 07-Dec-2021 Analyzed: 15-Dec-2021 19:59					
Chloride	276	5.00	5.00	mg/L	200	96.9	89.3	75-125			D
Recovery limits for target analytes in MS/MSD QC samples are advisory only.											



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112080
Project Manager: Brianna Barnes

Reported:
16-Dec-2021 18:57

Certified Analyses included in this Report

Analyte	Certifications
EPA 300.0 in Water	
Chloride	DoD-ELAP,WADOE,WA-DW,NELAP
Nitrate-N	DoD-ELAP,WADOE,WA-DW,NELAP
Sulfate	DoD-ELAP,WADOE,WA-DW,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



Fremont Analytical
3600 Fremont Avenue N.
Seattle WA, 98103

Project: Anions
Project Number: 2112080
Project Manager: Brianna Barnes

Reported:
16-Dec-2021 18:57

Notes and Definitions

- D The reported value is from a dilution
- U This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- [2C] Indicates this result was quantified on the second column on a dual column analysis.



Fremont
Analytical

3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

PES Environmental, Inc.

Bill Haldeman

2101 Fourth Avenue, Suite 1310

Seattle, WA 98121

RE: American Linen

Work Order Number: 2112109

December 10, 2021

Attention Bill Haldeman:

Fremont Analytical, Inc. received 2 sample(s) on 12/7/2021 for the analyses presented in the following report.

Ion Chromatography by EPA Method 300.0

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

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Date: 12/10/2021

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 2112109

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2112109-001	MW-153-120721	12/07/2021 12:00 PM	12/07/2021 4:08 PM
2112109-002	MW-148-120721	12/07/2021 2:45 PM	12/07/2021 4:08 PM

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

Original

CLIENT: PES Environmental, Inc.
Project: American Linen

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: PES Environmental, Inc.

Project: American Linen

Lab ID: 2112109-001

Collection Date: 12/7/2021 12:00:00 PM

Client Sample ID: MW-153-120721

Matrix: Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 34685		Analyst: SS
Chloride	8.82	0.500	D	mg/L	5	12/8/2021 4:36:00 PM
Nitrate (as N)	0.0690	0.100	JH	mg/L	1	12/9/2021 2:17:00 PM
Nitrate (as N)	ND	0.500	D	mg/L	5	12/8/2021 4:36:00 PM
Sulfate	8.69	0.600		mg/L	1	12/9/2021 2:17:00 PM

Lab ID: 2112109-002

Collection Date: 12/7/2021 2:45:00 PM

Client Sample ID: MW-148-120721

Matrix: Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 34685		Analyst: SS
Chloride	15.5	2.00	D	mg/L	20	12/9/2021 2:40:00 PM
Nitrate (as N)	ND	0.500	D	mg/L	5	12/8/2021 4:59:00 PM
Sulfate	137	12.0	D	mg/L	20	12/9/2021 2:40:00 PM

Work Order: 2112109
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: LCS-34685	SampType: LCS	Units: mg/L			Prep Date: 12/8/2021	RunNo: 71849					
Client ID: LCSW	Batch ID: 34685				Analysis Date: 12/8/2021	SeqNo: 1465278					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	0.714	0.100	0.7500	0	95.2	90	110				
Nitrate (as N)	0.716	0.100	0.7500	0	95.5	90	110				
Sulfate	3.59	0.600	3.750	0	95.7	90	110				

Sample ID: MB-34685	SampType: MBLK	Units: mg/L			Prep Date: 12/8/2021	RunNo: 71849					
Client ID: MBLKW	Batch ID: 34685				Analysis Date: 12/8/2021	SeqNo: 1465282					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	ND	0.100									
Nitrate (as N)	ND	0.100									
Sulfate	ND	0.600									

Sample ID: 2112109-002ADUP	SampType: DUP	Units: mg/L			Prep Date: 12/8/2021	RunNo: 71849					
Client ID: MW-148-120721	Batch ID: 34685				Analysis Date: 12/8/2021	SeqNo: 1465292					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	16.6	0.500						17.04	2.50	20	DE
Nitrate (as N)	ND	0.500						0	0	20	D
Sulfate	149	3.00						152.7	2.51	20	DE

Sample ID: 2112109-002AMS	SampType: MS	Units: mg/L			Prep Date: 12/8/2021	RunNo: 71849					
Client ID: MW-148-120721	Batch ID: 34685				Analysis Date: 12/8/2021	SeqNo: 1465294					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	20.6	0.500	3.750	17.04	96.3	80	120				DE
Nitrate (as N)	3.55	0.500	3.750	0	94.7	80	120				D
Sulfate	168	3.00	18.75	152.7	82.5	80	120				DE

Work Order: 2112109
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: 2112109-002AMSD	SampType: MSD	Units: mg/L				Prep Date: 12/8/2021	RunNo: 71849				
Client ID: MW-148-120721	Batch ID: 34685					Analysis Date: 12/8/2021	SeqNo: 1465296				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	20.7	0.500	3.750	17.04	97.3	80	120	20.65	0.194	20	DE
Nitrate (as N)	3.56	0.500	3.750	0	94.9	80	120	3.550	0.281	20	D
Sulfate	168	3.00	18.75	152.7	83.4	80	120	168.2	0.0951	20	DE

Sample ID: 2112128-012BDUP	SampType: DUP	Units: mg/L				Prep Date: 12/8/2021	RunNo: 71849				
Client ID: BATCH	Batch ID: 34685					Analysis Date: 12/9/2021	SeqNo: 1465317				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	8.50	0.100						8.509	0.0941	20	E
Nitrate (as N)	0.482	0.100						0.4850	0.620	20	
Sulfate	6.97	0.600						6.969	0.0144	20	

Sample ID: 2112128-012BMS	SampType: MS	Units: mg/L				Prep Date: 12/8/2021	RunNo: 71849				
Client ID: BATCH	Batch ID: 34685					Analysis Date: 12/9/2021	SeqNo: 1465318				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	9.39	0.100	0.7500	8.509	118	80	120				E
Nitrate (as N)	1.26	0.100	0.7500	0.4850	103	80	120				
Sulfate	11.2	0.600	3.750	6.969	113	80	120				

Client Name: **PES**

 Work Order Number: **2112109**

 Logged by: **Gabrielle Coeulle**

 Date Received: **12/7/2021 4:08:00 PM**

Chain of Custody

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

Log In

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

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	5.5

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



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 12-7-21 Page: 1 of 1
Project Name: AMERICAN LINEN

Laboratory Project No (Internal): 2112109
Special Remarks:

Client: PES ENVIRONMENTAL

Address: 2101 4th Ave Ste 1310

City, State, Zip: SEATTLE WA 98121

Telephone: 206 529 3985

Location: SEATTLE DBA
Report To (PM): BILL H
PM Email: BILL.HALDEMAN@NVS.COM

Sample Disposal: Return to client Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCS (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1 <u>MW-153-120721</u>	<u>12/7/21</u>	<u>1200</u>	<u>GW</u>	<u>1</u>													
2 <u>MW-148-120721</u>	<u>12/7/21</u>	<u>1445</u>	<u>GW</u>	<u>1</u>													<u>X</u>
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MICA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
 Standard Next Day
 3 Day Same Day
 2 Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) [Signature] Print Name RTM Laughlin Date/Time 12/7/21 1600
 Relinquished (Signature) [Signature] Print Name Alex Treggs Date/Time 12/07/21 10:08



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Bill Haldeman
2101 Fourth Avenue, Suite 1310
Seattle, WA 98121

RE: AMERICAN LINEN
Work Order Number: 2112132

December 13, 2021

Attention Bill Haldeman:

Fremont Analytical, Inc. received 4 sample(s) on 12/8/2021 for the analyses presented in the following report.

Ion Chromatography by EPA Method 300.0

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com



Date: 12/13/2021

CLIENT: PES Environmental, Inc.
Project: AMERICAN LINEN
Work Order: 2112132

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2112132-001	MW-963-120821	12/08/2021 8:30 AM	12/08/2021 3:57 PM
2112132-002	MW-158A-120821	12/08/2021 10:52 AM	12/08/2021 3:57 PM
2112132-003	MW-143-120821	12/08/2021 1:15 PM	12/08/2021 3:57 PM
2112132-004	EQ-120821	12/08/2021 2:20 PM	12/08/2021 3:57 PM

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

Original

CLIENT: PES Environmental, Inc.
Project: AMERICAN LINEN

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: PES Environmental, Inc.
Project: AMERICAN LINEN

Lab ID: 2112132-001

Collection Date: 12/8/2021 8:30:00 AM

Client Sample ID: MW-963-120821

Matrix: Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 34706

Analyst: SS

Chloride	25.0	1.00	D	mg/L	10	12/10/2021 10:24:00 AM
Nitrate (as N)	ND	0.500	D	mg/L	5	12/10/2021 1:06:00 AM
Sulfate	16.0	3.00	D	mg/L	5	12/10/2021 1:06:00 AM

Lab ID: 2112132-002

Collection Date: 12/8/2021 10:52:00 AM

Client Sample ID: MW-158A-120821

Matrix: Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 34706

Analyst: SS

Chloride	25.2	1.00	D	mg/L	10	12/10/2021 11:10:00 AM
Nitrate (as N)	ND	0.100	D	mg/L	1	12/10/2021 10:47:00 AM
Sulfate	15.7	3.00	D	mg/L	5	12/10/2021 1:29:00 AM

Lab ID: 2112132-003

Collection Date: 12/8/2021 1:15:00 PM

Client Sample ID: MW-143-120821

Matrix: Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 34706

Analyst: SS

Chloride	70.3	5.00	D	mg/L	50	12/10/2021 11:33:00 AM
Nitrate (as N)	1.48	0.500	D	mg/L	5	12/10/2021 1:52:00 AM
Sulfate	3.08	3.00	D	mg/L	5	12/10/2021 1:52:00 AM



CLIENT: PES Environmental, Inc.

Project: AMERICAN LINEN

Lab ID: 2112132-004

Collection Date: 12/8/2021 2:20:00 PM

Client Sample ID: EQ-120821

Matrix: Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 34706		Analyst: SS
Chloride	ND	0.100		mg/L	1	12/10/2021 11:57:00 AM
Nitrate (as N)	ND	0.100		mg/L	1	12/10/2021 11:57:00 AM
Sulfate	ND	0.600		mg/L	1	12/10/2021 11:57:00 AM

Work Order: 2112132
CLIENT: PES Environmental, Inc.
Project: AMERICAN LINEN

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: MB-34706	SampType: MBLK	Units: mg/L	Prep Date: 12/9/2021	RunNo: 71878							
Client ID: MBLKW	Batch ID: 34706		Analysis Date: 12/9/2021	SeqNo: 1466137							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	ND	0.100									
Nitrate (as N)	ND	0.100									
Sulfate	ND	0.600									

Sample ID: LCS-34706	SampType: LCS	Units: mg/L	Prep Date: 12/9/2021	RunNo: 71878							
Client ID: LCSW	Batch ID: 34706		Analysis Date: 12/9/2021	SeqNo: 1466139							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	0.705	0.100	0.7500	0	94.0	90	110				
Nitrate (as N)	0.708	0.100	0.7500	0	94.4	90	110				
Sulfate	3.56	0.600	3.750	0	95.0	90	110				

Sample ID: 2111396-001BDUP	SampType: DUP	Units: mg/L	Prep Date: 12/9/2021	RunNo: 71878							
Client ID: BATCH	Batch ID: 34706		Analysis Date: 12/9/2021	SeqNo: 1466143							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	46.3	1.00						47.67	2.98	20	DE
Nitrate (as N)	1.47	1.00						1.520	3.34	20	D
Sulfate	132	6.00						136.7	3.66	20	D

Sample ID: 2111396-001BMS	SampType: MS	Units: mg/L	Prep Date: 12/9/2021	RunNo: 71878							
Client ID: BATCH	Batch ID: 34706		Analysis Date: 12/9/2021	SeqNo: 1466145							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	54.5	1.00	7.500	47.67	90.8	80	120				DE
Nitrate (as N)	8.31	1.00	7.500	1.520	90.5	80	120				D
Sulfate	171	6.00	37.50	136.7	92.7	80	120				DE

Work Order: 2112132
 CLIENT: PES Environmental, Inc.
 Project: AMERICAN LINEN

QC SUMMARY REPORT
 Ion Chromatography by EPA Method 300.0

Sample ID: 2111396-001BMSD	SampType: MSD	Units: mg/L				Prep Date: 12/9/2021	RunNo: 71878				
Client ID: BATCH	Batch ID: 34706					Analysis Date: 12/9/2021	SeqNo: 1466147				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	54.6	1.00	7.500	47.67	92.1	80	120	54.48	0.183	20	DE
Nitrate (as N)	8.29	1.00	7.500	1.520	90.3	80	120	8.310	0.241	20	D
Sulfate	172	6.00	37.50	136.7	93.7	80	120	171.5	0.227	20	DE

Sample ID: 2112148-001BDUP	SampType: DUP	Units: mg/L				Prep Date: 12/9/2021	RunNo: 71878				
Client ID: BATCH	Batch ID: 34706					Analysis Date: 12/10/2021	SeqNo: 1466124				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	5.73	0.100						5.719	0.262	20	E
Nitrate (as N)	4.06	0.100						4.050	0.222	20	E
Sulfate	2.72	0.600						2.740	0.622	20	

Sample ID: 2112148-001BMS	SampType: MS	Units: mg/L				Prep Date: 12/9/2021	RunNo: 71878				
Client ID: BATCH	Batch ID: 34706					Analysis Date: 12/10/2021	SeqNo: 1466125				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	6.54	0.100	0.7500	5.719	109	80	120				E
Nitrate (as N)	4.86	0.100	0.7500	4.050	109	80	120				E
Sulfate	6.46	0.600	3.750	2.740	99.2	80	120				

Client Name: PES	Work Order Number: 2112132
Logged by: Gabrielle Coeuille	Date Received: 12/8/2021 3:57:00 PM

Chain of Custody

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

Log In

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

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	4.3

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



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 12-8-2021 Page: 1 of 1
Project Name: AMERICAN LINEN
Laboratory Project No (Internal): 2112132

Client: PES ENVIRONMENTAL

Address: 2101 4th Ave Ste 1310

City, State, Zip: SEATTLE WA 98121

Telephone: 206 529 3980

Fax:

Project No: 1413001.02.S01E

Collected by: R. McLaughlin

Location: SEATTLE WA

Report To (PM): B. Haldeman

PM Email: B.Haldeman@NVS.com

Sample Disposal: Return to client Disposal by lab (after 30 days)

Special Remarks:

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analysis														Comments						
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDB (8011)									
1 MW-963-120821	12/8/21	0830	GW	1												X									
2 MW-158A-120821		1052	GW	1												X									
3 MW-143-120821		1315	GW	1												X									
4 ED-120821	12/8/21	1420	W	1												X									
5																									
6																									
7																									
8																									
9																									
10																									

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Tl V Zn

**Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Turn-around Time: Standard Next Day 3 Day Same Day 2 Day (specify)

Relinquished (Signature): RT McLaughlin Date/Time: 12/8/21 15:30
 Received (Signature): Alex Trigo Date/Time: 12/08/21 15:57

PES Environmental, Inc.- WA

Sample Delivery Group: L1462842
Samples Received: 02/17/2022
Project Number: 44301-1413001.02.501
Description: American Linen
Site: 44301-1413001.02.501.05
Report To: Brian O'Neal/Bill Haldeman
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:



Jared Starkey
Project Manager

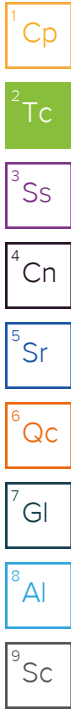
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
MW109-021522 L1462842-01	6
MW103-021522 L1462842-02	8
MW115-021522 L1462842-03	10
MW113-021522 L1462842-04	12
MW-186-021622 L1462842-05	14
MW-188-021622 L1462842-06	16
MW-187-021622 L1462842-07	18
MW-185-021622 L1462842-08	20
TB-021622 L1462842-09	22
Qc: Quality Control Summary	24
Wet Chemistry by Method 300.0	24
Wet Chemistry by Method 9060A	25
Metals (ICPMS) by Method 6020B	26
Volatile Organic Compounds (GC) by Method RSK175	27
Volatile Organic Compounds (GC/MS) by Method 8260D	29
Gl: Glossary of Terms	37
Al: Accreditations & Locations	38
Sc: Sample Chain of Custody	39



SAMPLE SUMMARY

MW109-021522 L1462842-01 GW

Collected by Ben Hecht Collected date/time 02/15/22 09:55 Received date/time 02/17/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1820192	1	02/18/22 12:28	02/18/22 12:28	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1820612	1	02/19/22 13:29	02/19/22 13:29	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1820096	1	02/18/22 11:10	02/18/22 23:56	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1820658	1	02/22/22 09:24	02/22/22 09:24	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1820243	1	02/18/22 22:02	02/18/22 22:02	ACG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

MW103-021522 L1462842-02 GW

Collected by Ben Hecht Collected date/time 02/15/22 12:50 Received date/time 02/17/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1820192	1	02/18/22 12:43	02/18/22 12:43	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1820612	1	02/19/22 13:43	02/19/22 13:43	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1820096	1	02/18/22 11:10	02/18/22 23:59	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1820658	1	02/22/22 09:27	02/22/22 09:27	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1820243	5	02/19/22 00:54	02/19/22 00:54	ACG	Mt. Juliet, TN

MW115-021522 L1462842-03 GW

Collected by Ben Hecht Collected date/time 02/15/22 14:45 Received date/time 02/17/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1820192	5	02/18/22 12:57	02/18/22 12:57	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1820612	1	02/19/22 13:59	02/19/22 13:59	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1820096	1	02/18/22 11:10	02/19/22 00:03	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1820658	1	02/22/22 09:29	02/22/22 09:29	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1820243	1	02/18/22 22:22	02/18/22 22:22	ACG	Mt. Juliet, TN

MW113-021522 L1462842-04 GW

Collected by Ben Hecht Collected date/time 02/15/22 15:35 Received date/time 02/17/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1820192	5	02/18/22 13:12	02/18/22 13:12	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1820612	1	02/19/22 14:16	02/19/22 14:16	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1820096	1	02/18/22 11:10	02/19/22 00:13	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1820658	1	02/22/22 09:39	02/22/22 09:39	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1820243	250	02/19/22 01:13	02/19/22 01:13	ACG	Mt. Juliet, TN

MW-186-021622 L1462842-05 GW

Collected by Ben Hecht Collected date/time 02/16/22 11:45 Received date/time 02/17/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1820243	1	02/18/22 22:41	02/18/22 22:41	ACG	Mt. Juliet, TN

MW-188-021622 L1462842-06 GW

Collected by Ben Hecht Collected date/time 02/16/22 12:55 Received date/time 02/17/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1820243	1	02/18/22 23:00	02/18/22 23:00	ACG	Mt. Juliet, TN

SAMPLE SUMMARY

MW-187-021622 L1462842-07 GW

Collected by: Ben Hecht
 Collected date/time: 02/16/22 13:40
 Received date/time: 02/17/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1822668	1	02/24/22 07:03	02/24/22 07:03	JAH	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

MW-185-021622 L1462842-08 GW

Collected by: Ben Hecht
 Collected date/time: 02/16/22 15:40
 Received date/time: 02/17/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1820243	1	02/18/22 23:19	02/18/22 23:19	ACG	Mt. Juliet, TN

⁴ Cn

⁵ Sr

TB-021622 L1462842-09 GW

Collected by: Ben Hecht
 Collected date/time: 02/16/22 16:45
 Received date/time: 02/17/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1820243	1	02/18/22 20:46	02/18/22 20:46	ACG	Mt. Juliet, TN

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jared Starkey
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	2040	J	594	5000	1	02/18/2022 12:28	WG1820192

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	5720		102	1000	1	02/19/2022 13:29	WG1820612

Metals (ICPMS) by Method 6020B

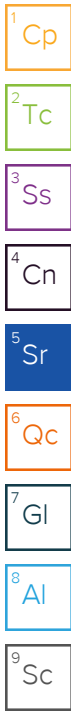
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	9570		28.1	100	1	02/18/2022 23:56	WG1820096
Manganese	2840		0.704	5.00	1	02/18/2022 23:56	WG1820096

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	2260		0.287	0.678	1	02/22/2022 09:24	WG1820658
Ethane	7.43		0.296	1.29	1	02/22/2022 09:24	WG1820658
Ethene	U		0.422	1.27	1	02/22/2022 09:24	WG1820658

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	02/18/2022 22:02	WG1820243
Acrylonitrile	U	J3 J4	0.0760	0.500	1	02/18/2022 22:02	WG1820243
Benzene	0.0430		0.0160	0.0400	1	02/18/2022 22:02	WG1820243
Bromobenzene	U		0.0420	0.500	1	02/18/2022 22:02	WG1820243
Bromodichloromethane	U		0.0315	0.100	1	02/18/2022 22:02	WG1820243
Bromoform	U		0.239	1.00	1	02/18/2022 22:02	WG1820243
Bromomethane	U		0.148	0.500	1	02/18/2022 22:02	WG1820243
n-Butylbenzene	U	C3	0.153	0.500	1	02/18/2022 22:02	WG1820243
sec-Butylbenzene	U		0.101	0.500	1	02/18/2022 22:02	WG1820243
tert-Butylbenzene	U	C3	0.0620	0.200	1	02/18/2022 22:02	WG1820243
Carbon tetrachloride	U		0.0432	0.200	1	02/18/2022 22:02	WG1820243
Chlorobenzene	U		0.0229	0.100	1	02/18/2022 22:02	WG1820243
Chlorodibromomethane	U		0.0180	0.100	1	02/18/2022 22:02	WG1820243
Chloroethane	U		0.0432	0.200	1	02/18/2022 22:02	WG1820243
Chloroform	U		0.0166	0.100	1	02/18/2022 22:02	WG1820243
Chloromethane	U		0.0556	0.500	1	02/18/2022 22:02	WG1820243
2-Chlorotoluene	U		0.0368	0.100	1	02/18/2022 22:02	WG1820243
4-Chlorotoluene	U		0.0452	0.200	1	02/18/2022 22:02	WG1820243
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	02/18/2022 22:02	WG1820243
1,2-Dibromoethane	U		0.0210	0.100	1	02/18/2022 22:02	WG1820243
Dibromomethane	U		0.0400	0.200	1	02/18/2022 22:02	WG1820243
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/18/2022 22:02	WG1820243
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/18/2022 22:02	WG1820243
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/18/2022 22:02	WG1820243
Dichlorodifluoromethane	U		0.0327	0.100	1	02/18/2022 22:02	WG1820243
1,1-Dichloroethane	0.0230	J	0.0230	0.100	1	02/18/2022 22:02	WG1820243
1,2-Dichloroethane	U		0.0190	0.100	1	02/18/2022 22:02	WG1820243
1,1-Dichloroethene	0.0600	J	0.0200	0.100	1	02/18/2022 22:02	WG1820243
cis-1,2-Dichloroethene	24.6		0.0276	0.100	1	02/18/2022 22:02	WG1820243
trans-1,2-Dichloroethene	0.100	J	0.0572	0.200	1	02/18/2022 22:02	WG1820243
1,2-Dichloropropane	U		0.0508	0.200	1	02/18/2022 22:02	WG1820243



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	02/18/2022 22:02	WG1820243
1,3-Dichloropropane	U		0.0700	0.200	1	02/18/2022 22:02	WG1820243
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/18/2022 22:02	WG1820243
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/18/2022 22:02	WG1820243
2,2-Dichloropropane	U		0.0317	0.100	1	02/18/2022 22:02	WG1820243
Di-isopropyl ether	U		0.0140	0.0400	1	02/18/2022 22:02	WG1820243
Ethylbenzene	U		0.0212	0.100	1	02/18/2022 22:02	WG1820243
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	02/18/2022 22:02	WG1820243
Isopropylbenzene	U		0.0345	0.100	1	02/18/2022 22:02	WG1820243
p-Isopropyltoluene	U		0.0932	0.200	1	02/18/2022 22:02	WG1820243
2-Butanone (MEK)	U		0.500	1.00	1	02/18/2022 22:02	WG1820243
Methylene Chloride	U		0.265	1.00	1	02/18/2022 22:02	WG1820243
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/18/2022 22:02	WG1820243
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/18/2022 22:02	WG1820243
Naphthalene	U	C3	0.124	0.500	1	02/18/2022 22:02	WG1820243
n-Propylbenzene	U		0.0472	0.200	1	02/18/2022 22:02	WG1820243
Styrene	U	C3	0.109	0.500	1	02/18/2022 22:02	WG1820243
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/18/2022 22:02	WG1820243
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/18/2022 22:02	WG1820243
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/18/2022 22:02	WG1820243
Tetrachloroethene	U		0.0280	0.100	1	02/18/2022 22:02	WG1820243
Toluene	U		0.0500	0.200	1	02/18/2022 22:02	WG1820243
1,2,3-Trichlorobenzene	U	C4 J4	0.0250	0.500	1	02/18/2022 22:02	WG1820243
1,2,4-Trichlorobenzene	U	C4	0.193	0.500	1	02/18/2022 22:02	WG1820243
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/18/2022 22:02	WG1820243
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/18/2022 22:02	WG1820243
Trichloroethene	0.0930		0.0160	0.0400	1	02/18/2022 22:02	WG1820243
Trichlorofluoromethane	U		0.0200	0.100	1	02/18/2022 22:02	WG1820243
1,2,3-Trichloropropane	U		0.204	0.500	1	02/18/2022 22:02	WG1820243
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/18/2022 22:02	WG1820243
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/18/2022 22:02	WG1820243
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/18/2022 22:02	WG1820243
Vinyl chloride	6.98		0.0273	0.100	1	02/18/2022 22:02	WG1820243
Xylenes, Total	U		0.191	0.260	1	02/18/2022 22:02	WG1820243
Ethyl Ether	0.267		0.0170	0.100	1	02/18/2022 22:02	WG1820243
Tetrahydrofuran	U		0.0900	0.500	1	02/18/2022 22:02	WG1820243
Iodomethane	U		0.242	0.500	1	02/18/2022 22:02	WG1820243
Allyl chloride	U		0.580	1.00	1	02/18/2022 22:02	WG1820243
Trans-1,4-Dichloro-2-butene	U	J4	0.0560	0.200	1	02/18/2022 22:02	WG1820243
(S) Toluene-d8	94.7			75.0-131		02/18/2022 22:02	WG1820243
(S) 4-Bromofluorobenzene	93.5			67.0-138		02/18/2022 22:02	WG1820243
(S) 1,2-Dichloroethane-d4	116			70.0-130		02/18/2022 22:02	WG1820243

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	28000		594	5000	1	02/18/2022 12:43	WG1820192

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1970	<u>B</u>	102	1000	1	02/19/2022 13:43	WG1820612

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1320		28.1	100	1	02/18/2022 23:59	WG1820096
Manganese	853		0.704	5.00	1	02/18/2022 23:59	WG1820096

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	103		0.287	0.678	1	02/22/2022 09:27	WG1820658
Ethane	9.86		0.296	1.29	1	02/22/2022 09:27	WG1820658
Ethene	7.64		0.422	1.27	1	02/22/2022 09:27	WG1820658

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	<u>J4</u>	2.74	5.00	5	02/19/2022 00:54	WG1820243
Acrylonitrile	U	<u>J3 J4</u>	0.380	2.50	5	02/19/2022 00:54	WG1820243
Benzene	0.135	<u>J</u>	0.0800	0.200	5	02/19/2022 00:54	WG1820243
Bromobenzene	U		0.210	2.50	5	02/19/2022 00:54	WG1820243
Bromodichloromethane	U		0.158	0.500	5	02/19/2022 00:54	WG1820243
Bromoform	U		1.20	5.00	5	02/19/2022 00:54	WG1820243
Bromomethane	U		0.740	2.50	5	02/19/2022 00:54	WG1820243
n-Butylbenzene	U	<u>C3</u>	0.765	2.50	5	02/19/2022 00:54	WG1820243
sec-Butylbenzene	U		0.505	2.50	5	02/19/2022 00:54	WG1820243
tert-Butylbenzene	U	<u>C3</u>	0.310	1.00	5	02/19/2022 00:54	WG1820243
Carbon tetrachloride	U		0.216	1.00	5	02/19/2022 00:54	WG1820243
Chlorobenzene	U		0.115	0.500	5	02/19/2022 00:54	WG1820243
Chlorodibromomethane	U		0.0900	0.500	5	02/19/2022 00:54	WG1820243
Chloroethane	U		0.216	1.00	5	02/19/2022 00:54	WG1820243
Chloroform	U		0.0830	0.500	5	02/19/2022 00:54	WG1820243
Chloromethane	U		0.278	2.50	5	02/19/2022 00:54	WG1820243
2-Chlorotoluene	U		0.184	0.500	5	02/19/2022 00:54	WG1820243
4-Chlorotoluene	U		0.226	1.00	5	02/19/2022 00:54	WG1820243
1,2-Dibromo-3-Chloropropane	U		1.02	5.00	5	02/19/2022 00:54	WG1820243
1,2-Dibromoethane	U		0.105	0.500	5	02/19/2022 00:54	WG1820243
Dibromomethane	U		0.200	1.00	5	02/19/2022 00:54	WG1820243
1,2-Dichlorobenzene	U		0.290	1.00	5	02/19/2022 00:54	WG1820243
1,3-Dichlorobenzene	U		0.340	1.00	5	02/19/2022 00:54	WG1820243
1,4-Dichlorobenzene	U		0.394	1.00	5	02/19/2022 00:54	WG1820243
Dichlorodifluoromethane	U		0.164	0.500	5	02/19/2022 00:54	WG1820243
1,1-Dichloroethane	U		0.115	0.500	5	02/19/2022 00:54	WG1820243
1,2-Dichloroethane	U		0.0950	0.500	5	02/19/2022 00:54	WG1820243
1,1-Dichloroethene	2.49		0.100	0.500	5	02/19/2022 00:54	WG1820243
cis-1,2-Dichloroethene	187		0.138	0.500	5	02/19/2022 00:54	WG1820243
trans-1,2-Dichloroethene	0.480	<u>J</u>	0.286	1.00	5	02/19/2022 00:54	WG1820243
1,2-Dichloropropane	U		0.254	1.00	5	02/19/2022 00:54	WG1820243

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.140	0.500	5	02/19/2022 00:54	WG1820243
1,3-Dichloropropane	U		0.350	1.00	5	02/19/2022 00:54	WG1820243
cis-1,3-Dichloropropene	U		0.136	0.500	5	02/19/2022 00:54	WG1820243
trans-1,3-Dichloropropene	U		0.306	1.00	5	02/19/2022 00:54	WG1820243
2,2-Dichloropropane	U		0.159	0.500	5	02/19/2022 00:54	WG1820243
Di-isopropyl ether	U		0.0700	0.200	5	02/19/2022 00:54	WG1820243
Ethylbenzene	U		0.106	0.500	5	02/19/2022 00:54	WG1820243
Hexachloro-1,3-butadiene	U	<u>C3</u>	2.54	5.00	5	02/19/2022 00:54	WG1820243
Isopropylbenzene	U		0.173	0.500	5	02/19/2022 00:54	WG1820243
p-Isopropyltoluene	U		0.466	1.00	5	02/19/2022 00:54	WG1820243
2-Butanone (MEK)	U		2.50	5.00	5	02/19/2022 00:54	WG1820243
Methylene Chloride	U		1.33	5.00	5	02/19/2022 00:54	WG1820243
4-Methyl-2-pentanone (MIBK)	U		2.00	5.00	5	02/19/2022 00:54	WG1820243
Methyl tert-butyl ether	U		0.0590	0.200	5	02/19/2022 00:54	WG1820243
Naphthalene	U	<u>C3</u>	0.620	2.50	5	02/19/2022 00:54	WG1820243
n-Propylbenzene	U		0.236	1.00	5	02/19/2022 00:54	WG1820243
Styrene	U	<u>C3</u>	0.545	2.50	5	02/19/2022 00:54	WG1820243
1,1,1,2-Tetrachloroethane	U		0.100	0.500	5	02/19/2022 00:54	WG1820243
1,1,2,2-Tetrachloroethane	U		0.0780	0.500	5	02/19/2022 00:54	WG1820243
1,1,2-Trichlorotrifluoroethane	U		0.135	0.500	5	02/19/2022 00:54	WG1820243
Tetrachloroethene	U		0.140	0.500	5	02/19/2022 00:54	WG1820243
Toluene	U		0.250	1.00	5	02/19/2022 00:54	WG1820243
1,2,3-Trichlorobenzene	U	<u>C4 J4</u>	0.125	2.50	5	02/19/2022 00:54	WG1820243
1,2,4-Trichlorobenzene	U	<u>C4</u>	0.965	2.50	5	02/19/2022 00:54	WG1820243
1,1,1-Trichloroethane	U		0.0550	0.500	5	02/19/2022 00:54	WG1820243
1,1,2-Trichloroethane	U		0.177	0.500	5	02/19/2022 00:54	WG1820243
Trichloroethene	3.05		0.0800	0.200	5	02/19/2022 00:54	WG1820243
Trichlorofluoromethane	U		0.100	0.500	5	02/19/2022 00:54	WG1820243
1,2,3-Trichloropropane	U		1.02	2.50	5	02/19/2022 00:54	WG1820243
1,2,4-Trimethylbenzene	U		0.232	1.00	5	02/19/2022 00:54	WG1820243
1,2,3-Trimethylbenzene	U		0.230	1.00	5	02/19/2022 00:54	WG1820243
1,3,5-Trimethylbenzene	U		0.216	1.00	5	02/19/2022 00:54	WG1820243
Vinyl chloride	68.7		0.137	0.500	5	02/19/2022 00:54	WG1820243
Xylenes, Total	U		0.955	1.30	5	02/19/2022 00:54	WG1820243
Ethyl Ether	U		0.0850	0.500	5	02/19/2022 00:54	WG1820243
Tetrahydrofuran	U		0.450	2.50	5	02/19/2022 00:54	WG1820243
Iodomethane	U		1.21	2.50	5	02/19/2022 00:54	WG1820243
Allyl chloride	U		2.90	5.00	5	02/19/2022 00:54	WG1820243
Trans-1,4-Dichloro-2-butene	U	<u>J4</u>	0.280	1.00	5	02/19/2022 00:54	WG1820243
(S) Toluene-d8	98.8			75.0-131		02/19/2022 00:54	WG1820243
(S) 4-Bromofluorobenzene	92.8			67.0-138		02/19/2022 00:54	WG1820243
(S) 1,2-Dichloroethane-d4	116			70.0-130		02/19/2022 00:54	WG1820243

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1462842-02 WG1820243: Non-target compounds too high to run at a lower dilution.

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	139000		2970	25000	5	02/18/2022 12:57	WG1820192

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	5810		102	1000	1	02/19/2022 13:59	WG1820612

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	5680		28.1	100	1	02/19/2022 00:03	WG1820096
Manganese	1340		0.704	5.00	1	02/19/2022 00:03	WG1820096

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	308		0.287	0.678	1	02/22/2022 09:29	WG1820658
Ethane	1.47		0.296	1.29	1	02/22/2022 09:29	WG1820658
Ethene	U		0.422	1.27	1	02/22/2022 09:29	WG1820658

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.55	C5 J4	0.548	1.00	1	02/18/2022 22:22	WG1820243
Acrylonitrile	U	J3 J4	0.0760	0.500	1	02/18/2022 22:22	WG1820243
Benzene	U		0.0160	0.0400	1	02/18/2022 22:22	WG1820243
Bromobenzene	U		0.0420	0.500	1	02/18/2022 22:22	WG1820243
Bromodichloromethane	U		0.0315	0.100	1	02/18/2022 22:22	WG1820243
Bromoform	U		0.239	1.00	1	02/18/2022 22:22	WG1820243
Bromomethane	U		0.148	0.500	1	02/18/2022 22:22	WG1820243
n-Butylbenzene	U	C3	0.153	0.500	1	02/18/2022 22:22	WG1820243
sec-Butylbenzene	U		0.101	0.500	1	02/18/2022 22:22	WG1820243
tert-Butylbenzene	U	C3	0.0620	0.200	1	02/18/2022 22:22	WG1820243
Carbon tetrachloride	U		0.0432	0.200	1	02/18/2022 22:22	WG1820243
Chlorobenzene	U		0.0229	0.100	1	02/18/2022 22:22	WG1820243
Chlorodibromomethane	U		0.0180	0.100	1	02/18/2022 22:22	WG1820243
Chloroethane	U		0.0432	0.200	1	02/18/2022 22:22	WG1820243
Chloroform	U		0.0166	0.100	1	02/18/2022 22:22	WG1820243
Chloromethane	U		0.0556	0.500	1	02/18/2022 22:22	WG1820243
2-Chlorotoluene	U		0.0368	0.100	1	02/18/2022 22:22	WG1820243
4-Chlorotoluene	U		0.0452	0.200	1	02/18/2022 22:22	WG1820243
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	02/18/2022 22:22	WG1820243
1,2-Dibromoethane	U		0.0210	0.100	1	02/18/2022 22:22	WG1820243
Dibromomethane	U		0.0400	0.200	1	02/18/2022 22:22	WG1820243
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/18/2022 22:22	WG1820243
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/18/2022 22:22	WG1820243
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/18/2022 22:22	WG1820243
Dichlorodifluoromethane	U		0.0327	0.100	1	02/18/2022 22:22	WG1820243
1,1-Dichloroethane	U		0.0230	0.100	1	02/18/2022 22:22	WG1820243
1,2-Dichloroethane	U		0.0190	0.100	1	02/18/2022 22:22	WG1820243
1,1-Dichloroethene	U		0.0200	0.100	1	02/18/2022 22:22	WG1820243
cis-1,2-Dichloroethene	0.455		0.0276	0.100	1	02/18/2022 22:22	WG1820243
trans-1,2-Dichloroethene	U		0.0572	0.200	1	02/18/2022 22:22	WG1820243
1,2-Dichloropropane	U		0.0508	0.200	1	02/18/2022 22:22	WG1820243

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	02/18/2022 22:22	WG1820243
1,3-Dichloropropane	U		0.0700	0.200	1	02/18/2022 22:22	WG1820243
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/18/2022 22:22	WG1820243
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/18/2022 22:22	WG1820243
2,2-Dichloropropane	U		0.0317	0.100	1	02/18/2022 22:22	WG1820243
Di-isopropyl ether	0.0220	<u>J</u>	0.0140	0.0400	1	02/18/2022 22:22	WG1820243
Ethylbenzene	U		0.0212	0.100	1	02/18/2022 22:22	WG1820243
Hexachloro-1,3-butadiene	U	<u>C3</u>	0.508	1.00	1	02/18/2022 22:22	WG1820243
Isopropylbenzene	U		0.0345	0.100	1	02/18/2022 22:22	WG1820243
p-Isopropyltoluene	U		0.0932	0.200	1	02/18/2022 22:22	WG1820243
2-Butanone (MEK)	U		0.500	1.00	1	02/18/2022 22:22	WG1820243
Methylene Chloride	U		0.265	1.00	1	02/18/2022 22:22	WG1820243
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/18/2022 22:22	WG1820243
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/18/2022 22:22	WG1820243
Naphthalene	U	<u>C3</u>	0.124	0.500	1	02/18/2022 22:22	WG1820243
n-Propylbenzene	U		0.0472	0.200	1	02/18/2022 22:22	WG1820243
Styrene	U	<u>C3</u>	0.109	0.500	1	02/18/2022 22:22	WG1820243
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/18/2022 22:22	WG1820243
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/18/2022 22:22	WG1820243
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/18/2022 22:22	WG1820243
Tetrachloroethene	0.0530	<u>J</u>	0.0280	0.100	1	02/18/2022 22:22	WG1820243
Toluene	U		0.0500	0.200	1	02/18/2022 22:22	WG1820243
1,2,3-Trichlorobenzene	U	<u>C4 J4</u>	0.0250	0.500	1	02/18/2022 22:22	WG1820243
1,2,4-Trichlorobenzene	U	<u>C4</u>	0.193	0.500	1	02/18/2022 22:22	WG1820243
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/18/2022 22:22	WG1820243
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/18/2022 22:22	WG1820243
Trichloroethene	0.0280	<u>J</u>	0.0160	0.0400	1	02/18/2022 22:22	WG1820243
Trichlorofluoromethane	U		0.0200	0.100	1	02/18/2022 22:22	WG1820243
1,2,3-Trichloropropane	U		0.204	0.500	1	02/18/2022 22:22	WG1820243
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/18/2022 22:22	WG1820243
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/18/2022 22:22	WG1820243
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/18/2022 22:22	WG1820243
Vinyl chloride	7.28		0.0273	0.100	1	02/18/2022 22:22	WG1820243
Xylenes, Total	U		0.191	0.260	1	02/18/2022 22:22	WG1820243
Ethyl Ether	0.248		0.0170	0.100	1	02/18/2022 22:22	WG1820243
Tetrahydrofuran	U		0.0900	0.500	1	02/18/2022 22:22	WG1820243
Iodomethane	U		0.242	0.500	1	02/18/2022 22:22	WG1820243
Allyl chloride	U		0.580	1.00	1	02/18/2022 22:22	WG1820243
Trans-1,4-Dichloro-2-butene	U	<u>J4</u>	0.0560	0.200	1	02/18/2022 22:22	WG1820243
(S) Toluene-d8	98.0			75.0-131		02/18/2022 22:22	WG1820243
(S) 4-Bromofluorobenzene	94.3			67.0-138		02/18/2022 22:22	WG1820243
(S) 1,2-Dichloroethane-d4	118			70.0-130		02/18/2022 22:22	WG1820243

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	80200		2970	25000	5	02/18/2022 13:12	WG1820192

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	21800		102	1000	1	02/19/2022 14:16	WG1820612

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	12100		28.1	100	1	02/19/2022 00:13	WG1820096
Manganese	808		0.704	5.00	1	02/19/2022 00:13	WG1820096

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	817		0.287	0.678	1	02/22/2022 09:39	WG1820658
Ethane	25.3		0.296	1.29	1	02/22/2022 09:39	WG1820658
Ethene	U		0.422	1.27	1	02/22/2022 09:39	WG1820658

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	137	250	250	02/19/2022 01:13	WG1820243
Acrylonitrile	U	J3 J4	19.0	125	250	02/19/2022 01:13	WG1820243
Benzene	5.75	J	4.00	10.0	250	02/19/2022 01:13	WG1820243
Bromobenzene	U		10.5	125	250	02/19/2022 01:13	WG1820243
Bromodichloromethane	U		7.88	25.0	250	02/19/2022 01:13	WG1820243
Bromoform	U		59.8	250	250	02/19/2022 01:13	WG1820243
Bromomethane	U		37.0	125	250	02/19/2022 01:13	WG1820243
n-Butylbenzene	U	C3	38.3	125	250	02/19/2022 01:13	WG1820243
sec-Butylbenzene	U		25.3	125	250	02/19/2022 01:13	WG1820243
tert-Butylbenzene	U	C3	15.5	50.0	250	02/19/2022 01:13	WG1820243
Carbon tetrachloride	U		10.8	50.0	250	02/19/2022 01:13	WG1820243
Chlorobenzene	U		5.73	25.0	250	02/19/2022 01:13	WG1820243
Chlorodibromomethane	U		4.50	25.0	250	02/19/2022 01:13	WG1820243
Chloroethane	U		10.8	50.0	250	02/19/2022 01:13	WG1820243
Chloroform	U		4.15	25.0	250	02/19/2022 01:13	WG1820243
Chloromethane	U		13.9	125	250	02/19/2022 01:13	WG1820243
2-Chlorotoluene	U		9.20	25.0	250	02/19/2022 01:13	WG1820243
4-Chlorotoluene	U		11.3	50.0	250	02/19/2022 01:13	WG1820243
1,2-Dibromo-3-Chloropropane	U		51.0	250	250	02/19/2022 01:13	WG1820243
1,2-Dibromoethane	U		5.25	25.0	250	02/19/2022 01:13	WG1820243
Dibromomethane	U		10.0	50.0	250	02/19/2022 01:13	WG1820243
1,2-Dichlorobenzene	U		14.5	50.0	250	02/19/2022 01:13	WG1820243
1,3-Dichlorobenzene	U		17.0	50.0	250	02/19/2022 01:13	WG1820243
1,4-Dichlorobenzene	U		19.7	50.0	250	02/19/2022 01:13	WG1820243
Dichlorodifluoromethane	U		8.18	25.0	250	02/19/2022 01:13	WG1820243
1,1-Dichloroethane	U		5.75	25.0	250	02/19/2022 01:13	WG1820243
1,2-Dichloroethane	U		4.75	25.0	250	02/19/2022 01:13	WG1820243
1,1-Dichloroethene	9.25	J	5.00	25.0	250	02/19/2022 01:13	WG1820243
cis-1,2-Dichloroethene	5960		6.90	25.0	250	02/19/2022 01:13	WG1820243
trans-1,2-Dichloroethene	18.0	J	14.3	50.0	250	02/19/2022 01:13	WG1820243
1,2-Dichloropropane	U		12.7	50.0	250	02/19/2022 01:13	WG1820243



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		7.00	25.0	250	02/19/2022 01:13	WG1820243
1,3-Dichloropropane	U		17.5	50.0	250	02/19/2022 01:13	WG1820243
cis-1,3-Dichloropropene	U		6.78	25.0	250	02/19/2022 01:13	WG1820243
trans-1,3-Dichloropropene	U		15.3	50.0	250	02/19/2022 01:13	WG1820243
2,2-Dichloropropane	U		7.93	25.0	250	02/19/2022 01:13	WG1820243
Di-isopropyl ether	U		3.50	10.0	250	02/19/2022 01:13	WG1820243
Ethylbenzene	U		5.30	25.0	250	02/19/2022 01:13	WG1820243
Hexachloro-1,3-butadiene	U	<u>C3</u>	127	250	250	02/19/2022 01:13	WG1820243
Isopropylbenzene	U		8.63	25.0	250	02/19/2022 01:13	WG1820243
p-Isopropyltoluene	U		23.3	50.0	250	02/19/2022 01:13	WG1820243
2-Butanone (MEK)	U		125	250	250	02/19/2022 01:13	WG1820243
Methylene Chloride	U		66.3	250	250	02/19/2022 01:13	WG1820243
4-Methyl-2-pentanone (MIBK)	U		100	250	250	02/19/2022 01:13	WG1820243
Methyl tert-butyl ether	U		2.95	10.0	250	02/19/2022 01:13	WG1820243
Naphthalene	U	<u>C3</u>	31.0	125	250	02/19/2022 01:13	WG1820243
n-Propylbenzene	U		11.8	50.0	250	02/19/2022 01:13	WG1820243
Styrene	U	<u>C3</u>	27.3	125	250	02/19/2022 01:13	WG1820243
1,1,1,2-Tetrachloroethane	U		5.00	25.0	250	02/19/2022 01:13	WG1820243
1,1,2,2-Tetrachloroethane	U		3.90	25.0	250	02/19/2022 01:13	WG1820243
1,1,2-Trichlorotrifluoroethane	U		6.75	25.0	250	02/19/2022 01:13	WG1820243
Tetrachloroethene	21.3	<u>J</u>	7.00	25.0	250	02/19/2022 01:13	WG1820243
Toluene	U		12.5	50.0	250	02/19/2022 01:13	WG1820243
1,2,3-Trichlorobenzene	U	<u>C4 J4</u>	6.25	125	250	02/19/2022 01:13	WG1820243
1,2,4-Trichlorobenzene	U	<u>C4</u>	48.3	125	250	02/19/2022 01:13	WG1820243
1,1,1-Trichloroethane	U		2.75	25.0	250	02/19/2022 01:13	WG1820243
1,1,2-Trichloroethane	U		8.83	25.0	250	02/19/2022 01:13	WG1820243
Trichloroethene	30.8		4.00	10.0	250	02/19/2022 01:13	WG1820243
Trichlorofluoromethane	U		5.00	25.0	250	02/19/2022 01:13	WG1820243
1,2,3-Trichloropropane	U		51.0	125	250	02/19/2022 01:13	WG1820243
1,2,4-Trimethylbenzene	U		11.6	50.0	250	02/19/2022 01:13	WG1820243
1,2,3-Trimethylbenzene	U		11.5	50.0	250	02/19/2022 01:13	WG1820243
1,3,5-Trimethylbenzene	U		10.8	50.0	250	02/19/2022 01:13	WG1820243
Vinyl chloride	U		6.82	25.0	250	02/19/2022 01:13	WG1820243
Xylenes, Total	U		47.8	65.0	250	02/19/2022 01:13	WG1820243
Ethyl Ether	U		4.25	25.0	250	02/19/2022 01:13	WG1820243
Tetrahydrofuran	U		22.5	125	250	02/19/2022 01:13	WG1820243
Iodomethane	U		60.5	125	250	02/19/2022 01:13	WG1820243
Allyl chloride	U		145	250	250	02/19/2022 01:13	WG1820243
Trans-1,4-Dichloro-2-butene	U	<u>J4</u>	14.0	50.0	250	02/19/2022 01:13	WG1820243
(S) Toluene-d8	96.5			75.0-131		02/19/2022 01:13	WG1820243
(S) 4-Bromofluorobenzene	93.9			67.0-138		02/19/2022 01:13	WG1820243
(S) 1,2-Dichloroethane-d4	118			70.0-130		02/19/2022 01:13	WG1820243

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1462842-04 WG1820243: Non-target compounds too high to run at a lower dilution.

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.45	C5 J4	0.548	1.00	1	02/18/2022 22:41	WG1820243
Acrylonitrile	U	J3 J4	0.0760	0.500	1	02/18/2022 22:41	WG1820243
Benzene	0.0610		0.0160	0.0400	1	02/18/2022 22:41	WG1820243
Bromobenzene	U		0.0420	0.500	1	02/18/2022 22:41	WG1820243
Bromodichloromethane	U		0.0315	0.100	1	02/18/2022 22:41	WG1820243
Bromoform	U		0.239	1.00	1	02/18/2022 22:41	WG1820243
Bromomethane	U		0.148	0.500	1	02/18/2022 22:41	WG1820243
n-Butylbenzene	U	C3	0.153	0.500	1	02/18/2022 22:41	WG1820243
sec-Butylbenzene	U		0.101	0.500	1	02/18/2022 22:41	WG1820243
tert-Butylbenzene	U	C3	0.0620	0.200	1	02/18/2022 22:41	WG1820243
Carbon tetrachloride	U		0.0432	0.200	1	02/18/2022 22:41	WG1820243
Chlorobenzene	U		0.0229	0.100	1	02/18/2022 22:41	WG1820243
Chlorodibromomethane	U		0.0180	0.100	1	02/18/2022 22:41	WG1820243
Chloroethane	U		0.0432	0.200	1	02/18/2022 22:41	WG1820243
Chloroform	U		0.0166	0.100	1	02/18/2022 22:41	WG1820243
Chloromethane	U		0.0556	0.500	1	02/18/2022 22:41	WG1820243
2-Chlorotoluene	U		0.0368	0.100	1	02/18/2022 22:41	WG1820243
4-Chlorotoluene	U		0.0452	0.200	1	02/18/2022 22:41	WG1820243
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	02/18/2022 22:41	WG1820243
1,2-Dibromoethane	U		0.0210	0.100	1	02/18/2022 22:41	WG1820243
Dibromomethane	U		0.0400	0.200	1	02/18/2022 22:41	WG1820243
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/18/2022 22:41	WG1820243
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/18/2022 22:41	WG1820243
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/18/2022 22:41	WG1820243
Dichlorodifluoromethane	U		0.0327	0.100	1	02/18/2022 22:41	WG1820243
1,1-Dichloroethane	U		0.0230	0.100	1	02/18/2022 22:41	WG1820243
1,2-Dichloroethane	U		0.0190	0.100	1	02/18/2022 22:41	WG1820243
1,1-Dichloroethene	U		0.0200	0.100	1	02/18/2022 22:41	WG1820243
cis-1,2-Dichloroethene	0.262		0.0276	0.100	1	02/18/2022 22:41	WG1820243
trans-1,2-Dichloroethene	0.731		0.0572	0.200	1	02/18/2022 22:41	WG1820243
1,2-Dichloropropane	U		0.0508	0.200	1	02/18/2022 22:41	WG1820243
1,1-Dichloropropene	U		0.0280	0.100	1	02/18/2022 22:41	WG1820243
1,3-Dichloropropane	U		0.0700	0.200	1	02/18/2022 22:41	WG1820243
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/18/2022 22:41	WG1820243
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/18/2022 22:41	WG1820243
2,2-Dichloropropane	U		0.0317	0.100	1	02/18/2022 22:41	WG1820243
Di-isopropyl ether	U		0.0140	0.0400	1	02/18/2022 22:41	WG1820243
Ethylbenzene	U		0.0212	0.100	1	02/18/2022 22:41	WG1820243
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	02/18/2022 22:41	WG1820243
Isopropylbenzene	U		0.0345	0.100	1	02/18/2022 22:41	WG1820243
p-Isopropyltoluene	U		0.0932	0.200	1	02/18/2022 22:41	WG1820243
2-Butanone (MEK)	U		0.500	1.00	1	02/18/2022 22:41	WG1820243
Methylene Chloride	U		0.265	1.00	1	02/18/2022 22:41	WG1820243
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/18/2022 22:41	WG1820243
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/18/2022 22:41	WG1820243
Naphthalene	U	C3	0.124	0.500	1	02/18/2022 22:41	WG1820243
n-Propylbenzene	U		0.0472	0.200	1	02/18/2022 22:41	WG1820243
Styrene	U	C3	0.109	0.500	1	02/18/2022 22:41	WG1820243
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/18/2022 22:41	WG1820243
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/18/2022 22:41	WG1820243
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/18/2022 22:41	WG1820243
Tetrachloroethene	U		0.0280	0.100	1	02/18/2022 22:41	WG1820243
Toluene	0.0650	J	0.0500	0.200	1	02/18/2022 22:41	WG1820243
1,2,3-Trichlorobenzene	U	C4 J4	0.0250	0.500	1	02/18/2022 22:41	WG1820243
1,2,4-Trichlorobenzene	U	C4	0.193	0.500	1	02/18/2022 22:41	WG1820243
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/18/2022 22:41	WG1820243

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/18/2022 22:41	WG1820243
Trichloroethene	0.0770		0.0160	0.0400	1	02/18/2022 22:41	WG1820243
Trichlorofluoromethane	U		0.0200	0.100	1	02/18/2022 22:41	WG1820243
1,2,3-Trichloropropane	U		0.204	0.500	1	02/18/2022 22:41	WG1820243
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/18/2022 22:41	WG1820243
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/18/2022 22:41	WG1820243
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/18/2022 22:41	WG1820243
Vinyl chloride	4.76		0.0273	0.100	1	02/18/2022 22:41	WG1820243
Xylenes, Total	U		0.191	0.260	1	02/18/2022 22:41	WG1820243
Ethyl Ether	U		0.0170	0.100	1	02/18/2022 22:41	WG1820243
Tetrahydrofuran	U		0.0900	0.500	1	02/18/2022 22:41	WG1820243
Iodomethane	U		0.242	0.500	1	02/18/2022 22:41	WG1820243
Allyl chloride	U		0.580	1.00	1	02/18/2022 22:41	WG1820243
Trans-1,4-Dichloro-2-butene	U	<u>J4</u>	0.0560	0.200	1	02/18/2022 22:41	WG1820243
(S) Toluene-d8	97.7			75.0-131		02/18/2022 22:41	WG1820243
(S) 4-Bromofluorobenzene	94.1			67.0-138		02/18/2022 22:41	WG1820243
(S) 1,2-Dichloroethane-d4	117			70.0-130		02/18/2022 22:41	WG1820243

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	02/18/2022 23:00	WG1820243
Acrylonitrile	U	J3 J4	0.0760	0.500	1	02/18/2022 23:00	WG1820243
Benzene	U		0.0160	0.0400	1	02/18/2022 23:00	WG1820243
Bromobenzene	U		0.0420	0.500	1	02/18/2022 23:00	WG1820243
Bromodichloromethane	U		0.0315	0.100	1	02/18/2022 23:00	WG1820243
Bromoform	U		0.239	1.00	1	02/18/2022 23:00	WG1820243
Bromomethane	U		0.148	0.500	1	02/18/2022 23:00	WG1820243
n-Butylbenzene	U	C3	0.153	0.500	1	02/18/2022 23:00	WG1820243
sec-Butylbenzene	U		0.101	0.500	1	02/18/2022 23:00	WG1820243
tert-Butylbenzene	U	C3	0.0620	0.200	1	02/18/2022 23:00	WG1820243
Carbon tetrachloride	U		0.0432	0.200	1	02/18/2022 23:00	WG1820243
Chlorobenzene	U		0.0229	0.100	1	02/18/2022 23:00	WG1820243
Chlorodibromomethane	U		0.0180	0.100	1	02/18/2022 23:00	WG1820243
Chloroethane	U		0.0432	0.200	1	02/18/2022 23:00	WG1820243
Chloroform	U		0.0166	0.100	1	02/18/2022 23:00	WG1820243
Chloromethane	U		0.0556	0.500	1	02/18/2022 23:00	WG1820243
2-Chlorotoluene	U		0.0368	0.100	1	02/18/2022 23:00	WG1820243
4-Chlorotoluene	U		0.0452	0.200	1	02/18/2022 23:00	WG1820243
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	02/18/2022 23:00	WG1820243
1,2-Dibromoethane	U		0.0210	0.100	1	02/18/2022 23:00	WG1820243
Dibromomethane	U		0.0400	0.200	1	02/18/2022 23:00	WG1820243
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/18/2022 23:00	WG1820243
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/18/2022 23:00	WG1820243
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/18/2022 23:00	WG1820243
Dichlorodifluoromethane	U		0.0327	0.100	1	02/18/2022 23:00	WG1820243
1,1-Dichloroethane	U		0.0230	0.100	1	02/18/2022 23:00	WG1820243
1,2-Dichloroethane	U		0.0190	0.100	1	02/18/2022 23:00	WG1820243
1,1-Dichloroethene	U		0.0200	0.100	1	02/18/2022 23:00	WG1820243
cis-1,2-Dichloroethene	0.160		0.0276	0.100	1	02/18/2022 23:00	WG1820243
trans-1,2-Dichloroethene	U		0.0572	0.200	1	02/18/2022 23:00	WG1820243
1,2-Dichloropropane	U		0.0508	0.200	1	02/18/2022 23:00	WG1820243
1,1-Dichloropropene	U		0.0280	0.100	1	02/18/2022 23:00	WG1820243
1,3-Dichloropropane	U		0.0700	0.200	1	02/18/2022 23:00	WG1820243
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/18/2022 23:00	WG1820243
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/18/2022 23:00	WG1820243
2,2-Dichloropropane	U		0.0317	0.100	1	02/18/2022 23:00	WG1820243
Di-isopropyl ether	U		0.0140	0.0400	1	02/18/2022 23:00	WG1820243
Ethylbenzene	U		0.0212	0.100	1	02/18/2022 23:00	WG1820243
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	02/18/2022 23:00	WG1820243
Isopropylbenzene	U		0.0345	0.100	1	02/18/2022 23:00	WG1820243
p-Isopropyltoluene	U		0.0932	0.200	1	02/18/2022 23:00	WG1820243
2-Butanone (MEK)	U		0.500	1.00	1	02/18/2022 23:00	WG1820243
Methylene Chloride	U		0.265	1.00	1	02/18/2022 23:00	WG1820243
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/18/2022 23:00	WG1820243
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/18/2022 23:00	WG1820243
Naphthalene	U	C3	0.124	0.500	1	02/18/2022 23:00	WG1820243
n-Propylbenzene	U		0.0472	0.200	1	02/18/2022 23:00	WG1820243
Styrene	U	C3	0.109	0.500	1	02/18/2022 23:00	WG1820243
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/18/2022 23:00	WG1820243
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/18/2022 23:00	WG1820243
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/18/2022 23:00	WG1820243
Tetrachloroethene	U		0.0280	0.100	1	02/18/2022 23:00	WG1820243
Toluene	U		0.0500	0.200	1	02/18/2022 23:00	WG1820243
1,2,3-Trichlorobenzene	U	C4 J4	0.0250	0.500	1	02/18/2022 23:00	WG1820243
1,2,4-Trichlorobenzene	U	C4	0.193	0.500	1	02/18/2022 23:00	WG1820243
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/18/2022 23:00	WG1820243

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/18/2022 23:00	WG1820243
Trichloroethene	U		0.0160	0.0400	1	02/18/2022 23:00	WG1820243
Trichlorofluoromethane	U		0.0200	0.100	1	02/18/2022 23:00	WG1820243
1,2,3-Trichloropropane	U		0.204	0.500	1	02/18/2022 23:00	WG1820243
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/18/2022 23:00	WG1820243
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/18/2022 23:00	WG1820243
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/18/2022 23:00	WG1820243
Vinyl chloride	0.357		0.0273	0.100	1	02/18/2022 23:00	WG1820243
Xylenes, Total	U		0.191	0.260	1	02/18/2022 23:00	WG1820243
Ethyl Ether	U		0.0170	0.100	1	02/18/2022 23:00	WG1820243
Tetrahydrofuran	U		0.0900	0.500	1	02/18/2022 23:00	WG1820243
Iodomethane	U		0.242	0.500	1	02/18/2022 23:00	WG1820243
Allyl chloride	U		0.580	1.00	1	02/18/2022 23:00	WG1820243
Trans-1,4-Dichloro-2-butene	U	<u>J4</u>	0.0560	0.200	1	02/18/2022 23:00	WG1820243
(S) Toluene-d8	96.9			75.0-131		02/18/2022 23:00	WG1820243
(S) 4-Bromofluorobenzene	93.6			67.0-138		02/18/2022 23:00	WG1820243
(S) 1,2-Dichloroethane-d4	119			70.0-130		02/18/2022 23:00	WG1820243

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	02/24/2022 07:03	WG1822668
Acrylonitrile	U		0.0760	0.500	1	02/24/2022 07:03	WG1822668
Benzene	U		0.0160	0.0400	1	02/24/2022 07:03	WG1822668
Bromobenzene	U		0.0420	0.500	1	02/24/2022 07:03	WG1822668
Bromodichloromethane	U		0.0315	0.100	1	02/24/2022 07:03	WG1822668
Bromoform	U		0.239	1.00	1	02/24/2022 07:03	WG1822668
Bromomethane	U		0.148	0.500	1	02/24/2022 07:03	WG1822668
n-Butylbenzene	U		0.153	0.500	1	02/24/2022 07:03	WG1822668
sec-Butylbenzene	U		0.101	0.500	1	02/24/2022 07:03	WG1822668
tert-Butylbenzene	U		0.0620	0.200	1	02/24/2022 07:03	WG1822668
Carbon tetrachloride	U		0.0432	0.200	1	02/24/2022 07:03	WG1822668
Chlorobenzene	U		0.0229	0.100	1	02/24/2022 07:03	WG1822668
Chlorodibromomethane	U		0.0180	0.100	1	02/24/2022 07:03	WG1822668
Chloroethane	U		0.0432	0.200	1	02/24/2022 07:03	WG1822668
Chloroform	U		0.0166	0.100	1	02/24/2022 07:03	WG1822668
Chloromethane	U		0.0556	0.500	1	02/24/2022 07:03	WG1822668
2-Chlorotoluene	U		0.0368	0.100	1	02/24/2022 07:03	WG1822668
4-Chlorotoluene	U		0.0452	0.200	1	02/24/2022 07:03	WG1822668
1,2-Dibromo-3-Chloropropane	U	<u>C3</u>	0.204	1.00	1	02/24/2022 07:03	WG1822668
1,2-Dibromoethane	U		0.0210	0.100	1	02/24/2022 07:03	WG1822668
Dibromomethane	U		0.0400	0.200	1	02/24/2022 07:03	WG1822668
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/24/2022 07:03	WG1822668
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/24/2022 07:03	WG1822668
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/24/2022 07:03	WG1822668
Dichlorodifluoromethane	U		0.0327	0.100	1	02/24/2022 07:03	WG1822668
1,1-Dichloroethane	U		0.0230	0.100	1	02/24/2022 07:03	WG1822668
1,2-Dichloroethane	U		0.0190	0.100	1	02/24/2022 07:03	WG1822668
1,1-Dichloroethene	U		0.0200	0.100	1	02/24/2022 07:03	WG1822668
cis-1,2-Dichloroethene	0.0770	<u>J</u>	0.0276	0.100	1	02/24/2022 07:03	WG1822668
trans-1,2-Dichloroethene	U		0.0572	0.200	1	02/24/2022 07:03	WG1822668
1,2-Dichloropropane	U		0.0508	0.200	1	02/24/2022 07:03	WG1822668
1,1-Dichloropropene	U		0.0280	0.100	1	02/24/2022 07:03	WG1822668
1,3-Dichloropropane	U		0.0700	0.200	1	02/24/2022 07:03	WG1822668
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/24/2022 07:03	WG1822668
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/24/2022 07:03	WG1822668
2,2-Dichloropropane	U		0.0317	0.100	1	02/24/2022 07:03	WG1822668
Di-isopropyl ether	U		0.0140	0.0400	1	02/24/2022 07:03	WG1822668
Ethylbenzene	U		0.0212	0.100	1	02/24/2022 07:03	WG1822668
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/24/2022 07:03	WG1822668
Isopropylbenzene	U		0.0345	0.100	1	02/24/2022 07:03	WG1822668
p-Isopropyltoluene	U		0.0932	0.200	1	02/24/2022 07:03	WG1822668
2-Butanone (MEK)	U		0.500	1.00	1	02/24/2022 07:03	WG1822668
Methylene Chloride	U		0.265	1.00	1	02/24/2022 07:03	WG1822668
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/24/2022 07:03	WG1822668
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/24/2022 07:03	WG1822668
Naphthalene	U	<u>C3</u>	0.124	0.500	1	02/24/2022 07:03	WG1822668
n-Propylbenzene	U		0.0472	0.200	1	02/24/2022 07:03	WG1822668
Styrene	U		0.109	0.500	1	02/24/2022 07:03	WG1822668
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/24/2022 07:03	WG1822668
1,1,2,2-Tetrachloroethane	U	<u>C3</u>	0.0156	0.100	1	02/24/2022 07:03	WG1822668
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/24/2022 07:03	WG1822668
Tetrachloroethene	U		0.0280	0.100	1	02/24/2022 07:03	WG1822668
Toluene	0.0650	<u>J</u>	0.0500	0.200	1	02/24/2022 07:03	WG1822668
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/24/2022 07:03	WG1822668
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/24/2022 07:03	WG1822668
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/24/2022 07:03	WG1822668

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/24/2022 07:03	WG1822668
Trichloroethene	U		0.0160	0.0400	1	02/24/2022 07:03	WG1822668
Trichlorofluoromethane	U		0.0200	0.100	1	02/24/2022 07:03	WG1822668
1,2,3-Trichloropropane	U		0.204	0.500	1	02/24/2022 07:03	WG1822668
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/24/2022 07:03	WG1822668
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/24/2022 07:03	WG1822668
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/24/2022 07:03	WG1822668
Vinyl chloride	0.651		0.0273	0.100	1	02/24/2022 07:03	WG1822668
Xylenes, Total	U		0.191	0.260	1	02/24/2022 07:03	WG1822668
Ethyl Ether	U		0.0170	0.100	1	02/24/2022 07:03	WG1822668
Tetrahydrofuran	0.599		0.0900	0.500	1	02/24/2022 07:03	WG1822668
Iodomethane	U		0.242	0.500	1	02/24/2022 07:03	WG1822668
Allyl chloride	U		0.580	1.00	1	02/24/2022 07:03	WG1822668
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/24/2022 07:03	WG1822668
(S) Toluene-d8	97.9			75.0-131		02/24/2022 07:03	WG1822668
(S) 4-Bromofluorobenzene	96.1			67.0-138		02/24/2022 07:03	WG1822668
(S) 1,2-Dichloroethane-d4	104			70.0-130		02/24/2022 07:03	WG1822668

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.79	C5 J4	0.548	1.00	1	02/18/2022 23:19	WG1820243
Acrylonitrile	U	J3 J4	0.0760	0.500	1	02/18/2022 23:19	WG1820243
Benzene	0.122		0.0160	0.0400	1	02/18/2022 23:19	WG1820243
Bromobenzene	U		0.0420	0.500	1	02/18/2022 23:19	WG1820243
Bromodichloromethane	U		0.0315	0.100	1	02/18/2022 23:19	WG1820243
Bromoform	U		0.239	1.00	1	02/18/2022 23:19	WG1820243
Bromomethane	U		0.148	0.500	1	02/18/2022 23:19	WG1820243
n-Butylbenzene	U	C3	0.153	0.500	1	02/18/2022 23:19	WG1820243
sec-Butylbenzene	U		0.101	0.500	1	02/18/2022 23:19	WG1820243
tert-Butylbenzene	U	C3	0.0620	0.200	1	02/18/2022 23:19	WG1820243
Carbon tetrachloride	U		0.0432	0.200	1	02/18/2022 23:19	WG1820243
Chlorobenzene	U		0.0229	0.100	1	02/18/2022 23:19	WG1820243
Chlorodibromomethane	U		0.0180	0.100	1	02/18/2022 23:19	WG1820243
Chloroethane	U		0.0432	0.200	1	02/18/2022 23:19	WG1820243
Chloroform	U		0.0166	0.100	1	02/18/2022 23:19	WG1820243
Chloromethane	U		0.0556	0.500	1	02/18/2022 23:19	WG1820243
2-Chlorotoluene	U		0.0368	0.100	1	02/18/2022 23:19	WG1820243
4-Chlorotoluene	U		0.0452	0.200	1	02/18/2022 23:19	WG1820243
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	02/18/2022 23:19	WG1820243
1,2-Dibromoethane	U		0.0210	0.100	1	02/18/2022 23:19	WG1820243
Dibromomethane	U		0.0400	0.200	1	02/18/2022 23:19	WG1820243
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/18/2022 23:19	WG1820243
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/18/2022 23:19	WG1820243
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/18/2022 23:19	WG1820243
Dichlorodifluoromethane	U		0.0327	0.100	1	02/18/2022 23:19	WG1820243
1,1-Dichloroethane	U		0.0230	0.100	1	02/18/2022 23:19	WG1820243
1,2-Dichloroethane	U		0.0190	0.100	1	02/18/2022 23:19	WG1820243
1,1-Dichloroethene	0.0530	J	0.0200	0.100	1	02/18/2022 23:19	WG1820243
cis-1,2-Dichloroethene	0.618		0.0276	0.100	1	02/18/2022 23:19	WG1820243
trans-1,2-Dichloroethene	0.0700	J	0.0572	0.200	1	02/18/2022 23:19	WG1820243
1,2-Dichloropropane	U		0.0508	0.200	1	02/18/2022 23:19	WG1820243
1,1-Dichloropropene	U		0.0280	0.100	1	02/18/2022 23:19	WG1820243
1,3-Dichloropropane	U		0.0700	0.200	1	02/18/2022 23:19	WG1820243
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/18/2022 23:19	WG1820243
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/18/2022 23:19	WG1820243
2,2-Dichloropropane	U		0.0317	0.100	1	02/18/2022 23:19	WG1820243
Di-isopropyl ether	U		0.0140	0.0400	1	02/18/2022 23:19	WG1820243
Ethylbenzene	U		0.0212	0.100	1	02/18/2022 23:19	WG1820243
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	02/18/2022 23:19	WG1820243
Isopropylbenzene	U		0.0345	0.100	1	02/18/2022 23:19	WG1820243
p-Isopropyltoluene	U		0.0932	0.200	1	02/18/2022 23:19	WG1820243
2-Butanone (MEK)	U		0.500	1.00	1	02/18/2022 23:19	WG1820243
Methylene Chloride	U		0.265	1.00	1	02/18/2022 23:19	WG1820243
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/18/2022 23:19	WG1820243
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/18/2022 23:19	WG1820243
Naphthalene	U	C3	0.124	0.500	1	02/18/2022 23:19	WG1820243
n-Propylbenzene	U		0.0472	0.200	1	02/18/2022 23:19	WG1820243
Styrene	U	C3	0.109	0.500	1	02/18/2022 23:19	WG1820243
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/18/2022 23:19	WG1820243
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/18/2022 23:19	WG1820243
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/18/2022 23:19	WG1820243
Tetrachloroethene	0.0560	J	0.0280	0.100	1	02/18/2022 23:19	WG1820243
Toluene	U		0.0500	0.200	1	02/18/2022 23:19	WG1820243
1,2,3-Trichlorobenzene	U	C4 J4	0.0250	0.500	1	02/18/2022 23:19	WG1820243
1,2,4-Trichlorobenzene	U	C4	0.193	0.500	1	02/18/2022 23:19	WG1820243
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/18/2022 23:19	WG1820243

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/18/2022 23:19	WG1820243
Trichloroethene	0.0780		0.0160	0.0400	1	02/18/2022 23:19	WG1820243
Trichlorofluoromethane	U		0.0200	0.100	1	02/18/2022 23:19	WG1820243
1,2,3-Trichloropropane	U		0.204	0.500	1	02/18/2022 23:19	WG1820243
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/18/2022 23:19	WG1820243
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/18/2022 23:19	WG1820243
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/18/2022 23:19	WG1820243
Vinyl chloride	4.89		0.0273	0.100	1	02/18/2022 23:19	WG1820243
Xylenes, Total	U		0.191	0.260	1	02/18/2022 23:19	WG1820243
Ethyl Ether	U		0.0170	0.100	1	02/18/2022 23:19	WG1820243
Tetrahydrofuran	2.62	C5	0.0900	0.500	1	02/18/2022 23:19	WG1820243
Iodomethane	U		0.242	0.500	1	02/18/2022 23:19	WG1820243
Allyl chloride	U		0.580	1.00	1	02/18/2022 23:19	WG1820243
Trans-1,4-Dichloro-2-butene	U	J4	0.0560	0.200	1	02/18/2022 23:19	WG1820243
(S) Toluene-d8	97.7			75.0-131		02/18/2022 23:19	WG1820243
(S) 4-Bromofluorobenzene	93.0			67.0-138		02/18/2022 23:19	WG1820243
(S) 1,2-Dichloroethane-d4	118			70.0-130		02/18/2022 23:19	WG1820243

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.58	C5 J4	0.548	1.00	1	02/18/2022 20:46	WG1820243
Acrylonitrile	U	J3 J4	0.0760	0.500	1	02/18/2022 20:46	WG1820243
Benzene	U		0.0160	0.0400	1	02/18/2022 20:46	WG1820243
Bromobenzene	U		0.0420	0.500	1	02/18/2022 20:46	WG1820243
Bromodichloromethane	U		0.0315	0.100	1	02/18/2022 20:46	WG1820243
Bromoform	U		0.239	1.00	1	02/18/2022 20:46	WG1820243
Bromomethane	U		0.148	0.500	1	02/18/2022 20:46	WG1820243
n-Butylbenzene	U	C3	0.153	0.500	1	02/18/2022 20:46	WG1820243
sec-Butylbenzene	U		0.101	0.500	1	02/18/2022 20:46	WG1820243
tert-Butylbenzene	U	C3	0.0620	0.200	1	02/18/2022 20:46	WG1820243
Carbon tetrachloride	U		0.0432	0.200	1	02/18/2022 20:46	WG1820243
Chlorobenzene	U		0.0229	0.100	1	02/18/2022 20:46	WG1820243
Chlorodibromomethane	U		0.0180	0.100	1	02/18/2022 20:46	WG1820243
Chloroethane	U		0.0432	0.200	1	02/18/2022 20:46	WG1820243
Chloroform	U		0.0166	0.100	1	02/18/2022 20:46	WG1820243
Chloromethane	U		0.0556	0.500	1	02/18/2022 20:46	WG1820243
2-Chlorotoluene	U		0.0368	0.100	1	02/18/2022 20:46	WG1820243
4-Chlorotoluene	U		0.0452	0.200	1	02/18/2022 20:46	WG1820243
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	02/18/2022 20:46	WG1820243
1,2-Dibromoethane	U		0.0210	0.100	1	02/18/2022 20:46	WG1820243
Dibromomethane	U		0.0400	0.200	1	02/18/2022 20:46	WG1820243
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/18/2022 20:46	WG1820243
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/18/2022 20:46	WG1820243
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/18/2022 20:46	WG1820243
Dichlorodifluoromethane	U		0.0327	0.100	1	02/18/2022 20:46	WG1820243
1,1-Dichloroethane	U		0.0230	0.100	1	02/18/2022 20:46	WG1820243
1,2-Dichloroethane	U		0.0190	0.100	1	02/18/2022 20:46	WG1820243
1,1-Dichloroethene	U		0.0200	0.100	1	02/18/2022 20:46	WG1820243
cis-1,2-Dichloroethene	U		0.0276	0.100	1	02/18/2022 20:46	WG1820243
trans-1,2-Dichloroethene	U		0.0572	0.200	1	02/18/2022 20:46	WG1820243
1,2-Dichloropropane	U		0.0508	0.200	1	02/18/2022 20:46	WG1820243
1,1-Dichloropropene	U		0.0280	0.100	1	02/18/2022 20:46	WG1820243
1,3-Dichloropropane	U		0.0700	0.200	1	02/18/2022 20:46	WG1820243
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/18/2022 20:46	WG1820243
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/18/2022 20:46	WG1820243
2,2-Dichloropropane	U		0.0317	0.100	1	02/18/2022 20:46	WG1820243
Di-isopropyl ether	U		0.0140	0.0400	1	02/18/2022 20:46	WG1820243
Ethylbenzene	U		0.0212	0.100	1	02/18/2022 20:46	WG1820243
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	02/18/2022 20:46	WG1820243
Isopropylbenzene	U		0.0345	0.100	1	02/18/2022 20:46	WG1820243
p-Isopropyltoluene	U		0.0932	0.200	1	02/18/2022 20:46	WG1820243
2-Butanone (MEK)	U		0.500	1.00	1	02/18/2022 20:46	WG1820243
Methylene Chloride	U		0.265	1.00	1	02/18/2022 20:46	WG1820243
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/18/2022 20:46	WG1820243
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/18/2022 20:46	WG1820243
Naphthalene	U	C3	0.124	0.500	1	02/18/2022 20:46	WG1820243
n-Propylbenzene	U		0.0472	0.200	1	02/18/2022 20:46	WG1820243
Styrene	U	C3	0.109	0.500	1	02/18/2022 20:46	WG1820243
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/18/2022 20:46	WG1820243
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/18/2022 20:46	WG1820243
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/18/2022 20:46	WG1820243
Tetrachloroethene	U		0.0280	0.100	1	02/18/2022 20:46	WG1820243
Toluene	0.0760	J	0.0500	0.200	1	02/18/2022 20:46	WG1820243
1,2,3-Trichlorobenzene	U	C4 J4	0.0250	0.500	1	02/18/2022 20:46	WG1820243
1,2,4-Trichlorobenzene	U	C4	0.193	0.500	1	02/18/2022 20:46	WG1820243
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/18/2022 20:46	WG1820243

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/18/2022 20:46	WG1820243
Trichloroethene	U		0.0160	0.0400	1	02/18/2022 20:46	WG1820243
Trichlorofluoromethane	U		0.0200	0.100	1	02/18/2022 20:46	WG1820243
1,2,3-Trichloropropane	U		0.204	0.500	1	02/18/2022 20:46	WG1820243
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/18/2022 20:46	WG1820243
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/18/2022 20:46	WG1820243
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/18/2022 20:46	WG1820243
Vinyl chloride	U		0.0273	0.100	1	02/18/2022 20:46	WG1820243
Xylenes, Total	U		0.191	0.260	1	02/18/2022 20:46	WG1820243
Ethyl Ether	U		0.0170	0.100	1	02/18/2022 20:46	WG1820243
Tetrahydrofuran	U		0.0900	0.500	1	02/18/2022 20:46	WG1820243
Iodomethane	U		0.242	0.500	1	02/18/2022 20:46	WG1820243
Allyl chloride	U		0.580	1.00	1	02/18/2022 20:46	WG1820243
Trans-1,4-Dichloro-2-butene	U	<u>J4</u>	0.0560	0.200	1	02/18/2022 20:46	WG1820243
(S) Toluene-d8	96.8			75.0-131		02/18/2022 20:46	WG1820243
(S) 4-Bromofluorobenzene	92.6			67.0-138		02/18/2022 20:46	WG1820243
(S) 1,2-Dichloroethane-d4	117			70.0-130		02/18/2022 20:46	WG1820243

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3761737-1 02/18/22 09:27

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Sulfate	U		594	5000

1 Cp

2 Tc

3 Ss

L1462860-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1462860-03 02/18/22 16:31 • (DUP) R3761737-3 02/18/22 16:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	10900	10600	1	3.26		20

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3761737-2 02/18/22 09:40

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Sulfate	40000	40400	101	90.0-110	

6 Qc

7 Gl

8 Al

L1462860-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1462860-03 02/18/22 16:31 • (MS) R3761737-4 02/18/22 17:00 • (MSD) R3761737-5 02/18/22 17:14

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Sulfate	50000	10900	62700	61600	103	101	1	80.0-120			1.72	20

9 Sc

Method Blank (MB)

(MB) R3762305-2 02/19/22 11:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	465	↓	102	1000

1 Cp

2 Tc

3 Ss

L1462842-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1462842-04 02/19/22 14:16 • (DUP) R3762305-5 02/19/22 14:32

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	21800	21900	1	0.274		20

4 Cn

5 Sr

L1462973-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1462973-01 02/19/22 15:13 • (DUP) R3762305-6 02/19/22 15:26

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	558	567	1	1.49	↓	20

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3762305-1 02/19/22 11:34

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC	75000	75000	100	85.0-115	

L1462841-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1462841-09 02/19/22 12:40 • (MS) R3762305-3 02/19/22 12:58 • (MSD) R3762305-4 02/19/22 13:15

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	50000	629	50800	50500	100	99.6	1	80.0-120			0.691	20

L1463188-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1463188-05 02/19/22 17:52 • (MS) R3762305-7 02/19/22 18:09 • (MSD) R3762305-8 02/19/22 18:33

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	50000	384	50600	51200	100	102	1	80.0-120			1.20	20

Method Blank (MB)

(MB) R3761664-1 02/18/22 22:55

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		28.1	100
Manganese	U		0.704	5.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3761664-2 02/18/22 22:58

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron	5000	4730	94.6	80.0-120	
Manganese	50.0	48.2	96.5	80.0-120	

L1462827-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1462827-19 02/18/22 23:02 • (MS) R3761664-4 02/18/22 23:08 • (MSD) R3761664-5 02/18/22 23:12

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	2910	7230	7320	86.3	88.1	1	75.0-125			1.19	20
Manganese	50.0	556	587	587	61.2	63.1	1	75.0-125	V	V	0.160	20

Method Blank (MB)

(MB) R3762441-2 02/22/22 09:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1463000-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1463000-02 02/22/22 09:49 • (DUP) R3762441-3 02/22/22 09:51

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	U	U	1	0.000		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1463254-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1463254-04 02/22/22 11:07 • (DUP) R3762441-4 02/22/22 11:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	1640	1770	1	7.62		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3762441-1 02/22/22 09:01 • (LCSD) R3762441-7 02/22/22 11:21

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	64.9	67.6	95.7	99.7	85.0-115			4.08	20
Ethane	129	121	122	93.8	94.6	85.0-115			0.823	20
Ethene	127	123	123	96.9	96.9	85.0-115			0.000	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1463000-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1463000-01 02/22/22 09:41 • (MS) R3762441-5 02/22/22 11:13 • (MSD) R3762441-6 02/22/22 11:17

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methane	67.8	U	63.4	65.6	93.5	96.8	1	85.0-115			3.41	20
Ethane	129	U	115	108	89.1	83.7	1	85.0-115		J6	6.28	20
Ethene	127	U	116	109	91.3	85.8	1	85.0-115			6.22	20

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3763016-2 02/18/22 20:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3763016-2 02/18/22 20:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	96.9			75.0-131
(S) 4-Bromofluorobenzene	92.4			67.0-138
(S) 1,2-Dichloroethane-d4	118			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3763016-1 02/18/22 19:12 • (LCSD) R3763016-3 02/18/22 21:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	25.0	37.2	50.6	149	202	10.0-160		J4	30.5	31
Acrylonitrile	25.0	32.2	44.5	129	178	45.0-153		J3 J4	32.1	22
Benzene	5.00	4.67	5.20	93.4	104	70.0-123			10.7	20
Bromobenzene	5.00	4.17	4.41	83.4	88.2	73.0-121			5.59	20
Bromodichloromethane	5.00	5.29	5.82	106	116	73.0-121			9.54	20
Bromoform	5.00	4.54	4.86	90.8	97.2	64.0-132			6.81	20
Bromomethane	5.00	4.54	4.44	90.8	88.8	56.0-147			2.23	20
n-Butylbenzene	5.00	3.98	4.37	79.6	87.4	68.0-135			9.34	20
sec-Butylbenzene	5.00	4.12	4.60	82.4	92.0	74.0-130			11.0	20
tert-Butylbenzene	5.00	3.95	4.27	79.0	85.4	75.0-127			7.79	20
Carbon tetrachloride	5.00	5.62	6.12	112	122	66.0-128			8.52	20
Chlorobenzene	5.00	4.41	4.69	88.2	93.8	76.0-128			6.15	20
Chlorodibromomethane	5.00	5.24	5.45	105	109	74.0-127			3.93	20
Chloroethane	5.00	5.35	4.93	107	98.6	61.0-134			8.17	20
Chloroform	5.00	5.24	5.55	105	111	72.0-123			5.75	20
Chloromethane	5.00	4.11	4.38	82.2	87.6	51.0-138			6.36	20
2-Chlorotoluene	5.00	4.43	4.76	88.6	95.2	75.0-124			7.18	20
4-Chlorotoluene	5.00	4.27	4.62	85.4	92.4	75.0-124			7.87	20
1,2-Dibromo-3-Chloropropane	5.00	4.04	4.85	80.8	97.0	59.0-130			18.2	20
1,2-Dibromoethane	5.00	4.70	5.13	94.0	103	74.0-128			8.75	20
Dibromomethane	5.00	5.44	5.73	109	115	75.0-122			5.19	20
1,2-Dichlorobenzene	5.00	4.37	4.47	87.4	89.4	76.0-124			2.26	20
1,3-Dichlorobenzene	5.00	4.10	4.34	82.0	86.8	76.0-125			5.69	20
1,4-Dichlorobenzene	5.00	4.39	4.50	87.8	90.0	77.0-121			2.47	20
trans-1,4-Dichloro-2-butene	5.00	6.86	7.51	137	150	45.0-143		J4	9.05	20
Dichlorodifluoromethane	5.00	4.19	4.79	83.8	95.8	43.0-156			13.4	20
1,1-Dichloroethane	5.00	4.89	5.58	97.8	112	70.0-127			13.2	20
1,2-Dichloroethane	5.00	5.73	6.15	115	123	65.0-131			7.07	20
1,1-Dichloroethene	5.00	5.46	6.30	109	126	65.0-131			14.3	20
cis-1,2-Dichloroethene	5.00	4.60	5.21	92.0	104	73.0-125			12.4	20
trans-1,2-Dichloroethene	5.00	4.69	5.39	93.8	108	71.0-125			13.9	20
1,2-Dichloropropane	5.00	5.44	5.93	109	119	74.0-125			8.62	20
1,1-Dichloropropene	5.00	4.98	5.34	99.6	107	73.0-125			6.98	20
1,3-Dichloropropane	5.00	4.37	4.74	87.4	94.8	80.0-125			8.12	20
cis-1,3-Dichloropropene	5.00	5.34	5.79	107	116	76.0-127			8.09	20
trans-1,3-Dichloropropene	5.00	4.90	5.25	98.0	105	73.0-127			6.90	20
2,2-Dichloropropane	5.00	5.45	6.10	109	122	59.0-135			11.3	20
Di-isopropyl ether	5.00	4.35	4.43	87.0	88.6	60.0-136			1.82	20
Ethylbenzene	5.00	4.31	4.75	86.2	95.0	74.0-126			9.71	20
Ethyl ether	5.00	5.30	5.53	106	111	64.0-137			4.25	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3763016-1 02/18/22 19:12 • (LCSD) R3763016-3 02/18/22 21:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	3.50	4.26	70.0	85.2	57.0-150			19.6	20
Iodomethane	25.0	24.7	23.1	98.8	92.4	74.0-134			6.69	20
Isopropylbenzene	5.00	4.27	4.63	85.4	92.6	72.0-127			8.09	20
p-Isopropyltoluene	5.00	4.24	4.74	84.8	94.8	72.0-133			11.1	20
2-Butanone (MEK)	25.0	29.9	36.4	120	146	30.0-160			19.6	24
Methylene Chloride	5.00	4.99	5.42	99.8	108	68.0-123			8.26	20
4-Methyl-2-pentanone (MIBK)	25.0	24.5	27.3	98.0	109	56.0-143			10.8	20
Methyl tert-butyl ether	5.00	5.24	5.45	105	109	66.0-132			3.93	20
Naphthalene	5.00	3.07	3.06	61.4	61.2	59.0-130			0.326	20
n-Propylbenzene	5.00	4.06	4.46	81.2	89.2	74.0-126			9.39	20
Styrene	5.00	3.91	4.27	78.2	85.4	72.0-127			8.80	20
1,1,1,2-Tetrachloroethane	5.00	4.61	4.96	92.2	99.2	74.0-129			7.31	20
1,1,2,2-Tetrachloroethane	5.00	4.59	5.30	91.8	106	68.0-128			14.4	20
Tetrachloroethene	5.00	4.32	4.68	86.4	93.6	70.0-136			8.00	20
Tetrahydrofuran	5.00	6.03	6.96	121	139	37.0-146			14.3	24
Toluene	5.00	4.38	4.76	87.6	95.2	75.0-121			8.32	20
1,1,2-Trichlorotrifluoroethane	5.00	4.24	4.62	84.8	92.4	61.0-139			8.58	20
1,2,3-Trichlorobenzene	5.00	2.40	2.15	48.0	43.0	59.0-139	J4	J4	11.0	20
1,2,4-Trichlorobenzene	5.00	3.18	3.39	63.6	67.8	62.0-137			6.39	20
1,1,1-Trichloroethane	5.00	5.22	5.68	104	114	69.0-126			8.44	20
1,1,2-Trichloroethane	5.00	4.51	4.85	90.2	97.0	78.0-123			7.26	20
Trichloroethene	5.00	5.21	5.40	104	108	76.0-126			3.58	20
Trichlorofluoromethane	5.00	4.35	4.53	87.0	90.6	61.0-142			4.05	20
1,2,3-Trichloropropane	5.00	5.12	5.57	102	111	67.0-129			8.42	20
1,2,3-Trimethylbenzene	5.00	5.15	5.55	103	111	74.0-124			7.48	20
1,2,4-Trimethylbenzene	5.00	4.24	4.57	84.8	91.4	70.0-126			7.49	20
1,3,5-Trimethylbenzene	5.00	4.15	4.45	83.0	89.0	73.0-127			6.98	20
Vinyl chloride	5.00	5.29	5.67	106	113	63.0-134			6.93	20
Xylenes, Total	15.0	12.7	13.6	84.7	90.7	72.0-127			6.84	20
Allyl chloride	25.0	26.0	29.5	104	118	70.0-131			12.6	20
(S) Toluene-d8				96.0	97.2	75.0-131				
(S) 4-Bromofluorobenzene				98.9	99.4	67.0-138				
(S) 1,2-Dichloroethane-d4				118	120	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3763269-2 02/24/22 06:44

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3763269-2 02/24/22 06:44

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	98.4			75.0-131
(S) 4-Bromofluorobenzene	95.9			67.0-138
(S) 1,2-Dichloroethane-d4	103			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3763269-1 02/24/22 05:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	25.0	34.0	136	10.0-160	
Acrylonitrile	25.0	19.5	78.0	45.0-153	
Benzene	5.00	4.54	90.8	70.0-123	
Bromobenzene	5.00	5.04	101	73.0-121	
Bromodichloromethane	5.00	5.22	104	73.0-121	
Bromoform	5.00	5.52	110	64.0-132	
Bromomethane	5.00	5.24	105	56.0-147	
n-Butylbenzene	5.00	4.71	94.2	68.0-135	
sec-Butylbenzene	5.00	4.89	97.8	74.0-130	
tert-Butylbenzene	5.00	5.03	101	75.0-127	
Carbon tetrachloride	5.00	5.56	111	66.0-128	
Chlorobenzene	5.00	5.04	101	76.0-128	
Chlorodibromomethane	5.00	5.26	105	74.0-127	
Chloroethane	5.00	4.81	96.2	61.0-134	
Chloroform	5.00	5.03	101	72.0-123	
Chloromethane	5.00	4.45	89.0	51.0-138	
2-Chlorotoluene	5.00	5.16	103	75.0-124	
4-Chlorotoluene	5.00	4.98	99.6	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	4.06	81.2	59.0-130	
1,2-Dibromoethane	5.00	4.88	97.6	74.0-128	
Dibromomethane	5.00	4.75	95.0	75.0-122	
1,2-Dichlorobenzene	5.00	4.93	98.6	76.0-124	
1,3-Dichlorobenzene	5.00	5.11	102	76.0-125	
1,4-Dichlorobenzene	5.00	4.74	94.8	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	4.55	91.0	45.0-143	
Dichlorodifluoromethane	5.00	5.05	101	43.0-156	
1,1-Dichloroethane	5.00	4.93	98.6	70.0-127	
1,2-Dichloroethane	5.00	5.26	105	65.0-131	
1,1-Dichloroethene	5.00	4.90	98.0	65.0-131	
cis-1,2-Dichloroethene	5.00	5.24	105	73.0-125	
trans-1,2-Dichloroethene	5.00	5.05	101	71.0-125	
1,2-Dichloropropane	5.00	4.68	93.6	74.0-125	
1,1-Dichloropropene	5.00	4.98	99.6	73.0-125	
1,3-Dichloropropane	5.00	4.63	92.6	80.0-125	
cis-1,3-Dichloropropene	5.00	5.10	102	76.0-127	
trans-1,3-Dichloropropene	5.00	5.14	103	73.0-127	
2,2-Dichloropropane	5.00	4.53	90.6	59.0-135	
Di-isopropyl ether	5.00	4.69	93.8	60.0-136	
Ethylbenzene	5.00	4.95	99.0	74.0-126	
Ethyl ether	5.00	4.71	94.2	64.0-137	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3763269-1 02/24/22 05:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Hexachloro-1,3-butadiene	5.00	5.87	117	57.0-150	
Iodomethane	25.0	28.1	112	74.0-134	
Isopropylbenzene	5.00	5.06	101	72.0-127	
p-Isopropyltoluene	5.00	5.31	106	72.0-133	
2-Butanone (MEK)	25.0	19.0	76.0	30.0-160	
Methylene Chloride	5.00	4.54	90.8	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	22.9	91.6	56.0-143	
Methyl tert-butyl ether	5.00	4.79	95.8	66.0-132	
Naphthalene	5.00	4.07	81.4	59.0-130	
n-Propylbenzene	5.00	4.86	97.2	74.0-126	
Styrene	5.00	5.12	102	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	5.22	104	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	3.63	72.6	68.0-128	
Tetrachloroethene	5.00	5.21	104	70.0-136	
Tetrahydrofuran	5.00	4.59	91.8	37.0-146	
Toluene	5.00	4.41	88.2	75.0-121	
1,1,2-Trichlorotrifluoroethane	5.00	4.99	99.8	61.0-139	
1,2,3-Trichlorobenzene	5.00	4.50	90.0	59.0-139	
1,2,4-Trichlorobenzene	5.00	5.06	101	62.0-137	
1,1,1-Trichloroethane	5.00	5.26	105	69.0-126	
1,1,2-Trichloroethane	5.00	4.61	92.2	78.0-123	
Trichloroethene	5.00	5.78	116	76.0-126	
Trichlorofluoromethane	5.00	5.34	107	61.0-142	
1,2,3-Trichloropropane	5.00	5.01	100	67.0-129	
1,2,3-Trimethylbenzene	5.00	5.05	101	74.0-124	
1,2,4-Trimethylbenzene	5.00	5.05	101	70.0-126	
1,3,5-Trimethylbenzene	5.00	5.09	102	73.0-127	
Vinyl chloride	5.00	4.48	89.6	63.0-134	
Xylenes, Total	15.0	15.0	100	72.0-127	
Allyl chloride	25.0	25.9	104	70.0-131	
(S) Toluene-d8			95.5	75.0-131	
(S) 4-Bromofluorobenzene			95.4	67.0-138	
(S) 1,2-Dichloroethane-d4			104	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

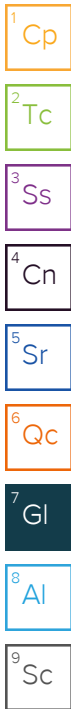
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C4	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Data is likely to show a low bias concerning the result.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address:
PES Environmental, Inc.- WA
 2101 Fourth Ave., Suite 1310
 Seattle, WA 98121

Billing Information:
 Attn: Accounts Payable
 2101 4th Avenue, Suite 1310
 Seattle, WA 98121

Pres
 Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Report to:
Brian O'Neal/Bill Haldeman

Email To:
 Shannon.McKernan@nv5.com;brian.oneal@nv5

Project Description:
American Linen

City/State
 Collected: **Seattle, WA**

Please Circle:
 PT MT CT ET

Phone: **206-529-3980**

Client Project #
**American Linen
 44301-1413001.02.501.05**

Lab Project #
PESENVSWA-ALP

Collected by (print):
Ben Hecht

Site/Facility ID #
44301-1413001.02.501.05

P.O. #
443018-1413001.05.601

Collected by (signature):
[Signature]
 Immediately
 Packed on Ice N Y

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #
 Date Results Needed
Standard

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
MW109-021522	Grab	GW		2/15/22	9:55	8
MW103-021522		GW			1250	8
MW115-021522		GW			1445	8
MW113-021522		GW			1535	8
MW-186-021622		GW		2/16/22	11:45	3
MW-188-021622					12:55	3
MW-187-021622					13:40	3
MW-185-021622	✓				15:40	3
TB-021622	-				1645	12

ALK 125mlHDPE-NoPres	FEG, MNG 250mlHDPE-HNO3	FEG, MNG 250mlHDPE-HNO3	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	SULFATE 125mlHDPE-NoPres	TOC 250mlHDPE-HCl	V8260ULLC 40mlAmb-HCl
		X		X	X	X	X
		X		X	X	X	X
		X		X	X	X	X
		X		X	X	X	X
		X		X	X	X	X
		X		X	X	X	X
		X		X	X	X	X
		X		X	X	X	X
		X		X	X	X	X
		X		X	X	X	X

Pace
 PEOPLE ADVANCING SCIENCE
 MT JULIET, TN
 12065 Lebanon Rd Mount Juliet, TN 37122
 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>
 SDG # **1462842**
E216
 Acctnum: **PESENVSWA**
 Template: **T203400**
 Prelogin: **P903823**
 PM: **546 - Jared Starkey**
 PB: **CP 2-8-22**
 Shipped Via:

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other _____

Remarks:
 pH _____ Temp _____
 Flow _____ Other _____
 Samples returned via:
 UPS FedEx Courier _____
 Tracking # **552859467705**

Sample Receipt Checklist

COC Seal Present/Intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable	
VOA Zero Headspace:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Relinquished by: (Signature)
[Signature]

Date:
2/16/2022

Time:
1645

Received by: (Signature)
[Signature]

Trip Blank Received: Yes No
 HCl / MeOH
 TBR
 Temp: **17.7 °C**
 Bottles Received: **44**

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)
Patricia Smith

Date: **2/17/22** Time: **0930**

Hold: Condition: NCF / OK

PES Environmental, Inc.- WA

Sample Delivery Group: L1463246
Samples Received: 02/18/2022
Project Number: 1413.001.02501.05
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:



Jared Starkey
Project Manager

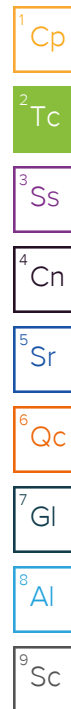
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
MW108-021522 L1463246-01	6
MW111-021522 L1463246-02	8
MW126-021522 L1463246-03	10
MW-9-021522 L1463246-04	12
MW120-021522 L1463246-05	15
MW-183-021622 L1463246-06	17
MW-182-021622 L1463246-07	19
MW-181-021622 L1463246-08	21
MW-184-021622 L1463246-09	23
MW-169-021622 L1463246-10	25
Qc: Quality Control Summary	27
Wet Chemistry by Method 2320 B-2011	27
Wet Chemistry by Method 300.0	28
Wet Chemistry by Method 9060A	29
Metals (ICPMS) by Method 6020B	31
Volatile Organic Compounds (GC) by Method NWTPHGX	32
Volatile Organic Compounds (GC) by Method RSK175	33
Volatile Organic Compounds (GC/MS) by Method 8260D	35
Gl: Glossary of Terms	43
Al: Accreditations & Locations	44
Sc: Sample Chain of Custody	45

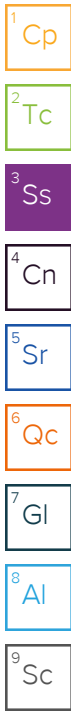


SAMPLE SUMMARY

MW108-021522 L1463246-01 GW

Collected by Hannah Cohen Collected date/time 02/15/22 10:05 Received date/time 02/18/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1820908	1	02/23/22 08:56	02/23/22 08:56	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1820611	1	02/19/22 16:20	02/19/22 16:20	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1820612	1	02/19/22 19:02	02/19/22 19:02	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1820695	1	02/21/22 23:03	02/23/22 16:14	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1820658	1	02/22/22 10:07	02/22/22 10:07	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1821785	1	02/22/22 14:48	02/22/22 14:48	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1823325	50	02/25/22 03:09	02/25/22 03:09	ADM	Mt. Juliet, TN



MW111-021522 L1463246-02 GW

Collected by Hannah Cohen Collected date/time 02/15/22 11:15 Received date/time 02/18/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1820908	1	02/23/22 09:00	02/23/22 09:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1820611	1	02/19/22 16:36	02/19/22 16:36	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1820612	1	02/19/22 19:15	02/19/22 19:15	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1820695	1	02/21/22 23:03	02/23/22 16:18	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1820658	1	02/22/22 10:38	02/22/22 10:38	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1821785	1	02/22/22 12:16	02/22/22 12:16	ACG	Mt. Juliet, TN

MW126-021522 L1463246-03 GW

Collected by Hannah Cohen Collected date/time 02/15/22 12:30 Received date/time 02/18/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1820908	1	02/23/22 09:10	02/23/22 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1820611	1	02/19/22 16:52	02/19/22 16:52	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1820612	1	02/19/22 19:29	02/19/22 19:29	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1820695	1	02/21/22 23:03	02/23/22 16:59	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1820658	1	02/22/22 10:10	02/22/22 10:10	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1821785	1	02/22/22 12:35	02/22/22 12:35	ACG	Mt. Juliet, TN

MW-9-021522 L1463246-04 GW

Collected by Hannah Cohen Collected date/time 02/15/22 13:30 Received date/time 02/18/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1820908	1	02/23/22 09:14	02/23/22 09:14	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1820611	1	02/19/22 17:07	02/19/22 17:07	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1820612	1	02/19/22 19:43	02/19/22 19:43	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1820695	1	02/21/22 23:03	02/23/22 17:02	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1820546	1	02/19/22 07:46	02/19/22 07:46	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1820658	1	02/22/22 10:13	02/22/22 10:13	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1821785	1	02/22/22 12:54	02/22/22 12:54	ACG	Mt. Juliet, TN

MW120-021522 L1463246-05 GW

Collected by Hannah Cohen Collected date/time 02/15/22 14:35 Received date/time 02/18/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1820908	1	02/23/22 09:17	02/23/22 09:17	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1820611	5	02/19/22 17:55	02/19/22 17:55	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1821617	1	02/23/22 16:14	02/23/22 16:14	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1820695	1	02/21/22 23:03	02/23/22 17:05	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1820658	1	02/22/22 10:15	02/22/22 10:15	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1821785	1	02/22/22 13:13	02/22/22 13:13	ACG	Mt. Juliet, TN

SAMPLE SUMMARY

MW-183-021622 L1463246-06 GW

Collected by Hannah Cohen Collected date/time 02/16/22 09:30 Received date/time 02/18/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1823325	250	02/25/22 03:28	02/25/22 03:28	ADM	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

MW-182-021622 L1463246-07 GW

Collected by Hannah Cohen Collected date/time 02/16/22 10:20 Received date/time 02/18/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1823325	2000	02/25/22 03:47	02/25/22 03:47	ADM	Mt. Juliet, TN

⁴ Cn

⁵ Sr

MW-181-021622 L1463246-08 GW

Collected by Hannah Cohen Collected date/time 02/16/22 11:05 Received date/time 02/18/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1823325	250	02/25/22 04:06	02/25/22 04:06	ADM	Mt. Juliet, TN

⁶ Qc

⁷ Gl

MW-184-021622 L1463246-09 GW

Collected by Hannah Cohen Collected date/time 02/16/22 11:30 Received date/time 02/18/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1821785	1	02/22/22 16:04	02/22/22 16:04	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1823325	20	02/25/22 04:25	02/25/22 04:25	ADM	Mt. Juliet, TN

⁸ Al

⁹ Sc

MW-169-021622 L1463246-10 GW

Collected by Hannah Cohen Collected date/time 02/16/22 15:35 Received date/time 02/18/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1821785	1	02/22/22 13:32	02/22/22 13:32	ACG	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jared Starkey
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	582000		8450	20000	1	02/23/2022 08:56	WG1820908

Sample Narrative:

L1463246-01 WG1820908: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	33500		594	5000	1	02/19/2022 16:20	WG1820611

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4900		102	1000	1	02/19/2022 19:02	WG1820612

Metals (ICPMS) by Method 6020B

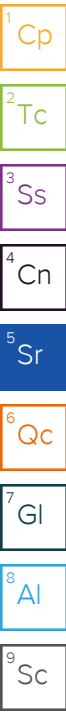
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	12900		28.1	100	1	02/23/2022 16:14	WG1820695
Manganese	1510		0.704	5.00	1	02/23/2022 16:14	WG1820695

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	1990		0.287	0.678	1	02/22/2022 10:07	WG1820658
Ethane	24.2		0.296	1.29	1	02/22/2022 10:07	WG1820658
Ethene	6.71		0.422	1.27	1	02/22/2022 10:07	WG1820658

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	02/22/2022 14:48	WG1821785
Acrylonitrile	U		0.0760	0.500	1	02/22/2022 14:48	WG1821785
Benzene	2.91		0.0160	0.0400	1	02/22/2022 14:48	WG1821785
Bromobenzene	U		0.0420	0.500	1	02/22/2022 14:48	WG1821785
Bromodichloromethane	U		0.0315	0.100	1	02/22/2022 14:48	WG1821785
Bromoform	U		0.239	1.00	1	02/22/2022 14:48	WG1821785
Bromomethane	U		0.148	0.500	1	02/22/2022 14:48	WG1821785
n-Butylbenzene	U		0.153	0.500	1	02/22/2022 14:48	WG1821785
sec-Butylbenzene	U		0.101	0.500	1	02/22/2022 14:48	WG1821785
tert-Butylbenzene	U		0.0620	0.200	1	02/22/2022 14:48	WG1821785
Carbon tetrachloride	U		0.0432	0.200	1	02/22/2022 14:48	WG1821785
Chlorobenzene	U		0.0229	0.100	1	02/22/2022 14:48	WG1821785
Chlorodibromomethane	U		0.0180	0.100	1	02/22/2022 14:48	WG1821785
Chloroethane	U		0.0432	0.200	1	02/22/2022 14:48	WG1821785
Chloroform	0.0830	J	0.0166	0.100	1	02/22/2022 14:48	WG1821785
Chloromethane	U		0.0556	0.500	1	02/22/2022 14:48	WG1821785
2-Chlorotoluene	U		0.0368	0.100	1	02/22/2022 14:48	WG1821785
4-Chlorotoluene	U		0.0452	0.200	1	02/22/2022 14:48	WG1821785
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	02/22/2022 14:48	WG1821785
1,2-Dibromoethane	U		0.0210	0.100	1	02/22/2022 14:48	WG1821785
Dibromomethane	U		0.0400	0.200	1	02/22/2022 14:48	WG1821785
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/22/2022 14:48	WG1821785



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/22/2022 14:48	WG1821785
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/22/2022 14:48	WG1821785
Dichlorodifluoromethane	U		0.0327	0.100	1	02/22/2022 14:48	WG1821785
1,1-Dichloroethane	0.0930	U	0.0230	0.100	1	02/22/2022 14:48	WG1821785
1,2-Dichloroethane	U		0.0190	0.100	1	02/22/2022 14:48	WG1821785
1,1-Dichloroethene	1.84		0.0200	0.100	1	02/22/2022 14:48	WG1821785
cis-1,2-Dichloroethene	852		1.38	5.00	50	02/25/2022 03:09	WG1823325
trans-1,2-Dichloroethene	3.34		0.0572	0.200	1	02/22/2022 14:48	WG1821785
1,2-Dichloropropane	U		0.0508	0.200	1	02/22/2022 14:48	WG1821785
1,1-Dichloropropene	U		0.0280	0.100	1	02/22/2022 14:48	WG1821785
1,3-Dichloropropane	U		0.0700	0.200	1	02/22/2022 14:48	WG1821785
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/22/2022 14:48	WG1821785
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/22/2022 14:48	WG1821785
2,2-Dichloropropane	U		0.0317	0.100	1	02/22/2022 14:48	WG1821785
Di-isopropyl ether	0.0550		0.0140	0.0400	1	02/22/2022 14:48	WG1821785
Ethylbenzene	U		0.0212	0.100	1	02/22/2022 14:48	WG1821785
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/22/2022 14:48	WG1821785
Isopropylbenzene	U		0.0345	0.100	1	02/22/2022 14:48	WG1821785
p-Isopropyltoluene	U		0.0932	0.200	1	02/22/2022 14:48	WG1821785
2-Butanone (MEK)	U		0.500	1.00	1	02/22/2022 14:48	WG1821785
Methylene Chloride	U		0.265	1.00	1	02/22/2022 14:48	WG1821785
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/22/2022 14:48	WG1821785
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/22/2022 14:48	WG1821785
Naphthalene	U		0.124	0.500	1	02/22/2022 14:48	WG1821785
n-Propylbenzene	U		0.0472	0.200	1	02/22/2022 14:48	WG1821785
Styrene	U		0.109	0.500	1	02/22/2022 14:48	WG1821785
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/22/2022 14:48	WG1821785
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/22/2022 14:48	WG1821785
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/22/2022 14:48	WG1821785
Tetrachloroethene	102		1.40	5.00	50	02/25/2022 03:09	WG1823325
Toluene	0.182	U	0.0500	0.200	1	02/22/2022 14:48	WG1821785
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/22/2022 14:48	WG1821785
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/22/2022 14:48	WG1821785
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/22/2022 14:48	WG1821785
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/22/2022 14:48	WG1821785
Trichloroethene	69.4		0.0160	0.0400	1	02/22/2022 14:48	WG1821785
Trichlorofluoromethane	U	C3	0.0200	0.100	1	02/22/2022 14:48	WG1821785
1,2,3-Trichloropropane	U		0.204	0.500	1	02/22/2022 14:48	WG1821785
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/22/2022 14:48	WG1821785
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/22/2022 14:48	WG1821785
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/22/2022 14:48	WG1821785
Vinyl chloride	170		1.36	5.00	50	02/25/2022 03:09	WG1823325
Xylenes, Total	U		0.191	0.260	1	02/22/2022 14:48	WG1821785
Ethyl Ether	0.304		0.0170	0.100	1	02/22/2022 14:48	WG1821785
Tetrahydrofuran	U		0.0900	0.500	1	02/22/2022 14:48	WG1821785
Iodomethane	U		0.242	0.500	1	02/22/2022 14:48	WG1821785
Allyl chloride	U		0.580	1.00	1	02/22/2022 14:48	WG1821785
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/22/2022 14:48	WG1821785
(S) Toluene-d8	102			75.0-131		02/22/2022 14:48	WG1821785
(S) Toluene-d8	100			75.0-131		02/25/2022 03:09	WG1823325
(S) 4-Bromofluorobenzene	101			67.0-138		02/22/2022 14:48	WG1821785
(S) 4-Bromofluorobenzene	95.9			67.0-138		02/25/2022 03:09	WG1823325
(S) 1,2-Dichloroethane-d4	109			70.0-130		02/22/2022 14:48	WG1821785
(S) 1,2-Dichloroethane-d4	119			70.0-130		02/25/2022 03:09	WG1823325

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	198000		8450	20000	1	02/23/2022 09:00	WG1820908

Sample Narrative:

L1463246-02 WG1820908: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	18000		594	5000	1	02/19/2022 16:36	WG1820611

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1320	<u>B</u>	102	1000	1	02/19/2022 19:15	WG1820612

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	5310		28.1	100	1	02/23/2022 16:18	WG1820695
Manganese	304		0.704	5.00	1	02/23/2022 16:18	WG1820695

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	134		0.287	0.678	1	02/22/2022 10:38	WG1820658
Ethane	9.39		0.296	1.29	1	02/22/2022 10:38	WG1820658
Ethene	2.71		0.422	1.27	1	02/22/2022 10:38	WG1820658

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	<u>J4</u>	0.548	1.00	1	02/22/2022 12:16	WG1821785
Acrylonitrile	U		0.0760	0.500	1	02/22/2022 12:16	WG1821785
Benzene	U		0.0160	0.0400	1	02/22/2022 12:16	WG1821785
Bromobenzene	U		0.0420	0.500	1	02/22/2022 12:16	WG1821785
Bromodichloromethane	U		0.0315	0.100	1	02/22/2022 12:16	WG1821785
Bromoform	U		0.239	1.00	1	02/22/2022 12:16	WG1821785
Bromomethane	U		0.148	0.500	1	02/22/2022 12:16	WG1821785
n-Butylbenzene	U		0.153	0.500	1	02/22/2022 12:16	WG1821785
sec-Butylbenzene	U		0.101	0.500	1	02/22/2022 12:16	WG1821785
tert-Butylbenzene	U		0.0620	0.200	1	02/22/2022 12:16	WG1821785
Carbon tetrachloride	U		0.0432	0.200	1	02/22/2022 12:16	WG1821785
Chlorobenzene	U		0.0229	0.100	1	02/22/2022 12:16	WG1821785
Chlorodibromomethane	U		0.0180	0.100	1	02/22/2022 12:16	WG1821785
Chloroethane	U		0.0432	0.200	1	02/22/2022 12:16	WG1821785
Chloroform	U		0.0166	0.100	1	02/22/2022 12:16	WG1821785
Chloromethane	U		0.0556	0.500	1	02/22/2022 12:16	WG1821785
2-Chlorotoluene	U		0.0368	0.100	1	02/22/2022 12:16	WG1821785
4-Chlorotoluene	U		0.0452	0.200	1	02/22/2022 12:16	WG1821785
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	02/22/2022 12:16	WG1821785
1,2-Dibromoethane	U		0.0210	0.100	1	02/22/2022 12:16	WG1821785
Dibromomethane	U		0.0400	0.200	1	02/22/2022 12:16	WG1821785
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/22/2022 12:16	WG1821785

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/22/2022 12:16	WG1821785
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/22/2022 12:16	WG1821785
Dichlorodifluoromethane	U		0.0327	0.100	1	02/22/2022 12:16	WG1821785
1,1-Dichloroethane	U		0.0230	0.100	1	02/22/2022 12:16	WG1821785
1,2-Dichloroethane	U		0.0190	0.100	1	02/22/2022 12:16	WG1821785
1,1-Dichloroethene	U		0.0200	0.100	1	02/22/2022 12:16	WG1821785
cis-1,2-Dichloroethene	1.87		0.0276	0.100	1	02/22/2022 12:16	WG1821785
trans-1,2-Dichloroethene	U		0.0572	0.200	1	02/22/2022 12:16	WG1821785
1,2-Dichloropropane	U		0.0508	0.200	1	02/22/2022 12:16	WG1821785
1,1-Dichloropropene	U		0.0280	0.100	1	02/22/2022 12:16	WG1821785
1,3-Dichloropropane	U		0.0700	0.200	1	02/22/2022 12:16	WG1821785
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/22/2022 12:16	WG1821785
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/22/2022 12:16	WG1821785
2,2-Dichloropropane	U		0.0317	0.100	1	02/22/2022 12:16	WG1821785
Di-isopropyl ether	U		0.0140	0.0400	1	02/22/2022 12:16	WG1821785
Ethylbenzene	U		0.0212	0.100	1	02/22/2022 12:16	WG1821785
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/22/2022 12:16	WG1821785
Isopropylbenzene	U		0.0345	0.100	1	02/22/2022 12:16	WG1821785
p-Isopropyltoluene	U		0.0932	0.200	1	02/22/2022 12:16	WG1821785
2-Butanone (MEK)	U		0.500	1.00	1	02/22/2022 12:16	WG1821785
Methylene Chloride	U		0.265	1.00	1	02/22/2022 12:16	WG1821785
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/22/2022 12:16	WG1821785
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/22/2022 12:16	WG1821785
Naphthalene	U		0.124	0.500	1	02/22/2022 12:16	WG1821785
n-Propylbenzene	U		0.0472	0.200	1	02/22/2022 12:16	WG1821785
Styrene	U		0.109	0.500	1	02/22/2022 12:16	WG1821785
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/22/2022 12:16	WG1821785
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/22/2022 12:16	WG1821785
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/22/2022 12:16	WG1821785
Tetrachloroethene	U		0.0280	0.100	1	02/22/2022 12:16	WG1821785
Toluene	0.0530	U	0.0500	0.200	1	02/22/2022 12:16	WG1821785
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/22/2022 12:16	WG1821785
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/22/2022 12:16	WG1821785
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/22/2022 12:16	WG1821785
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/22/2022 12:16	WG1821785
Trichloroethene	0.0480		0.0160	0.0400	1	02/22/2022 12:16	WG1821785
Trichlorofluoromethane	U	C3	0.0200	0.100	1	02/22/2022 12:16	WG1821785
1,2,3-Trichloropropane	U		0.204	0.500	1	02/22/2022 12:16	WG1821785
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/22/2022 12:16	WG1821785
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/22/2022 12:16	WG1821785
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/22/2022 12:16	WG1821785
Vinyl chloride	12.8		0.0273	0.100	1	02/22/2022 12:16	WG1821785
Xylenes, Total	U		0.191	0.260	1	02/22/2022 12:16	WG1821785
Ethyl Ether	0.0510	U	0.0170	0.100	1	02/22/2022 12:16	WG1821785
Tetrahydrofuran	U		0.0900	0.500	1	02/22/2022 12:16	WG1821785
Iodomethane	U		0.242	0.500	1	02/22/2022 12:16	WG1821785
Allyl chloride	U		0.580	1.00	1	02/22/2022 12:16	WG1821785
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/22/2022 12:16	WG1821785
(S) Toluene-d8	98.0			75.0-131		02/22/2022 12:16	WG1821785
(S) 4-Bromofluorobenzene	98.4			67.0-138		02/22/2022 12:16	WG1821785
(S) 1,2-Dichloroethane-d4	110			70.0-130		02/22/2022 12:16	WG1821785

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	204000		8450	20000	1	02/23/2022 09:10	WG1820908

Sample Narrative:

L1463246-03 WG1820908: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	2800	J	594	5000	1	02/19/2022 16:52	WG1820611

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2350	B	102	1000	1	02/19/2022 19:29	WG1820612

Metals (ICPMS) by Method 6020B

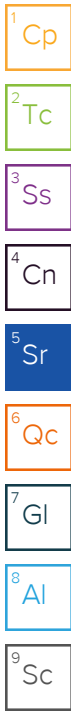
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	381		28.1	100	1	02/23/2022 16:59	WG1820695
Manganese	225		0.704	5.00	1	02/23/2022 16:59	WG1820695

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	265		0.287	0.678	1	02/22/2022 10:10	WG1820658
Ethane	1.46		0.296	1.29	1	02/22/2022 10:10	WG1820658
Ethene	0.842	J	0.422	1.27	1	02/22/2022 10:10	WG1820658

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	02/22/2022 12:35	WG1821785
Acrylonitrile	U		0.0760	0.500	1	02/22/2022 12:35	WG1821785
Benzene	U		0.0160	0.0400	1	02/22/2022 12:35	WG1821785
Bromobenzene	U		0.0420	0.500	1	02/22/2022 12:35	WG1821785
Bromodichloromethane	U		0.0315	0.100	1	02/22/2022 12:35	WG1821785
Bromoform	U		0.239	1.00	1	02/22/2022 12:35	WG1821785
Bromomethane	U		0.148	0.500	1	02/22/2022 12:35	WG1821785
n-Butylbenzene	U		0.153	0.500	1	02/22/2022 12:35	WG1821785
sec-Butylbenzene	U		0.101	0.500	1	02/22/2022 12:35	WG1821785
tert-Butylbenzene	U		0.0620	0.200	1	02/22/2022 12:35	WG1821785
Carbon tetrachloride	U		0.0432	0.200	1	02/22/2022 12:35	WG1821785
Chlorobenzene	U		0.0229	0.100	1	02/22/2022 12:35	WG1821785
Chlorodibromomethane	U		0.0180	0.100	1	02/22/2022 12:35	WG1821785
Chloroethane	U		0.0432	0.200	1	02/22/2022 12:35	WG1821785
Chloroform	U		0.0166	0.100	1	02/22/2022 12:35	WG1821785
Chloromethane	U		0.0556	0.500	1	02/22/2022 12:35	WG1821785
2-Chlorotoluene	U		0.0368	0.100	1	02/22/2022 12:35	WG1821785
4-Chlorotoluene	U		0.0452	0.200	1	02/22/2022 12:35	WG1821785
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	02/22/2022 12:35	WG1821785
1,2-Dibromoethane	U		0.0210	0.100	1	02/22/2022 12:35	WG1821785
Dibromomethane	U		0.0400	0.200	1	02/22/2022 12:35	WG1821785
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/22/2022 12:35	WG1821785



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/22/2022 12:35	WG1821785
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/22/2022 12:35	WG1821785
Dichlorodifluoromethane	U		0.0327	0.100	1	02/22/2022 12:35	WG1821785
1,1-Dichloroethane	U		0.0230	0.100	1	02/22/2022 12:35	WG1821785
1,2-Dichloroethane	U		0.0190	0.100	1	02/22/2022 12:35	WG1821785
1,1-Dichloroethene	U		0.0200	0.100	1	02/22/2022 12:35	WG1821785
cis-1,2-Dichloroethene	U		0.0276	0.100	1	02/22/2022 12:35	WG1821785
trans-1,2-Dichloroethene	U		0.0572	0.200	1	02/22/2022 12:35	WG1821785
1,2-Dichloropropane	U		0.0508	0.200	1	02/22/2022 12:35	WG1821785
1,1-Dichloropropene	U		0.0280	0.100	1	02/22/2022 12:35	WG1821785
1,3-Dichloropropane	U		0.0700	0.200	1	02/22/2022 12:35	WG1821785
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/22/2022 12:35	WG1821785
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/22/2022 12:35	WG1821785
2,2-Dichloropropane	U		0.0317	0.100	1	02/22/2022 12:35	WG1821785
Di-isopropyl ether	U		0.0140	0.0400	1	02/22/2022 12:35	WG1821785
Ethylbenzene	U		0.0212	0.100	1	02/22/2022 12:35	WG1821785
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/22/2022 12:35	WG1821785
Isopropylbenzene	U		0.0345	0.100	1	02/22/2022 12:35	WG1821785
p-Isopropyltoluene	U		0.0932	0.200	1	02/22/2022 12:35	WG1821785
2-Butanone (MEK)	U		0.500	1.00	1	02/22/2022 12:35	WG1821785
Methylene Chloride	U		0.265	1.00	1	02/22/2022 12:35	WG1821785
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/22/2022 12:35	WG1821785
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/22/2022 12:35	WG1821785
Naphthalene	U		0.124	0.500	1	02/22/2022 12:35	WG1821785
n-Propylbenzene	U		0.0472	0.200	1	02/22/2022 12:35	WG1821785
Styrene	U		0.109	0.500	1	02/22/2022 12:35	WG1821785
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/22/2022 12:35	WG1821785
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/22/2022 12:35	WG1821785
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/22/2022 12:35	WG1821785
Tetrachloroethene	U		0.0280	0.100	1	02/22/2022 12:35	WG1821785
Toluene	U		0.0500	0.200	1	02/22/2022 12:35	WG1821785
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/22/2022 12:35	WG1821785
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/22/2022 12:35	WG1821785
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/22/2022 12:35	WG1821785
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/22/2022 12:35	WG1821785
Trichloroethene	U		0.0160	0.0400	1	02/22/2022 12:35	WG1821785
Trichlorofluoromethane	U	<u>C3</u>	0.0200	0.100	1	02/22/2022 12:35	WG1821785
1,2,3-Trichloropropane	U		0.204	0.500	1	02/22/2022 12:35	WG1821785
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/22/2022 12:35	WG1821785
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/22/2022 12:35	WG1821785
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/22/2022 12:35	WG1821785
Vinyl chloride	U		0.0273	0.100	1	02/22/2022 12:35	WG1821785
Xylenes, Total	U		0.191	0.260	1	02/22/2022 12:35	WG1821785
Ethyl Ether	U		0.0170	0.100	1	02/22/2022 12:35	WG1821785
Tetrahydrofuran	U		0.0900	0.500	1	02/22/2022 12:35	WG1821785
Iodomethane	U		0.242	0.500	1	02/22/2022 12:35	WG1821785
Allyl chloride	U		0.580	1.00	1	02/22/2022 12:35	WG1821785
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/22/2022 12:35	WG1821785
(S) Toluene-d8	97.2			75.0-131		02/22/2022 12:35	WG1821785
(S) 4-Bromofluorobenzene	96.8			67.0-138		02/22/2022 12:35	WG1821785
(S) 1,2-Dichloroethane-d4	107			70.0-130		02/22/2022 12:35	WG1821785

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	475000		8450	20000	1	02/23/2022 09:14	WG1820908

Sample Narrative:

L1463246-04 WG1820908: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Sulfate	19900		594	5000	1	02/19/2022 17:07	WG1820611

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
TOC (Total Organic Carbon)	4130	<u>B</u>	102	1000	1	02/19/2022 19:43	WG1820612

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Iron	5090		28.1	100	1	02/23/2022 17:02	WG1820695
Manganese	4970		0.704	5.00	1	02/23/2022 17:02	WG1820695

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	02/19/2022 07:46	WG1820546
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		02/19/2022 07:46	WG1820546

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Methane	37.1		0.287	0.678	1	02/22/2022 10:13	WG1820658
Ethane	U		0.296	1.29	1	02/22/2022 10:13	WG1820658
Ethene	U		0.422	1.27	1	02/22/2022 10:13	WG1820658

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Acetone	2.77	<u>C5 C7 J4</u>	0.548	1.00	1	02/22/2022 12:54	WG1821785
Acrylonitrile	U		0.0760	0.500	1	02/22/2022 12:54	WG1821785
Benzene	U		0.0160	0.0400	1	02/22/2022 12:54	WG1821785
Bromobenzene	U		0.0420	0.500	1	02/22/2022 12:54	WG1821785
Bromodichloromethane	U		0.0315	0.100	1	02/22/2022 12:54	WG1821785
Bromoform	U		0.239	1.00	1	02/22/2022 12:54	WG1821785
Bromomethane	U		0.148	0.500	1	02/22/2022 12:54	WG1821785
n-Butylbenzene	U		0.153	0.500	1	02/22/2022 12:54	WG1821785
sec-Butylbenzene	U		0.101	0.500	1	02/22/2022 12:54	WG1821785
tert-Butylbenzene	U		0.0620	0.200	1	02/22/2022 12:54	WG1821785
Carbon tetrachloride	U		0.0432	0.200	1	02/22/2022 12:54	WG1821785
Chlorobenzene	U		0.0229	0.100	1	02/22/2022 12:54	WG1821785
Chlorodibromomethane	U		0.0180	0.100	1	02/22/2022 12:54	WG1821785
Chloroethane	U		0.0432	0.200	1	02/22/2022 12:54	WG1821785
Chloroform	U		0.0166	0.100	1	02/22/2022 12:54	WG1821785



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloromethane	U		0.0556	0.500	1	02/22/2022 12:54	WG1821785
2-Chlorotoluene	U		0.0368	0.100	1	02/22/2022 12:54	WG1821785
4-Chlorotoluene	U		0.0452	0.200	1	02/22/2022 12:54	WG1821785
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	02/22/2022 12:54	WG1821785
1,2-Dibromoethane	U		0.0210	0.100	1	02/22/2022 12:54	WG1821785
Dibromomethane	U		0.0400	0.200	1	02/22/2022 12:54	WG1821785
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/22/2022 12:54	WG1821785
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/22/2022 12:54	WG1821785
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/22/2022 12:54	WG1821785
Dichlorodifluoromethane	U		0.0327	0.100	1	02/22/2022 12:54	WG1821785
1,1-Dichloroethane	U		0.0230	0.100	1	02/22/2022 12:54	WG1821785
1,2-Dichloroethane	U		0.0190	0.100	1	02/22/2022 12:54	WG1821785
1,1-Dichloroethene	U		0.0200	0.100	1	02/22/2022 12:54	WG1821785
cis-1,2-Dichloroethene	U		0.0276	0.100	1	02/22/2022 12:54	WG1821785
trans-1,2-Dichloroethene	U		0.0572	0.200	1	02/22/2022 12:54	WG1821785
1,2-Dichloropropane	U		0.0508	0.200	1	02/22/2022 12:54	WG1821785
1,1-Dichloropropene	U		0.0280	0.100	1	02/22/2022 12:54	WG1821785
1,3-Dichloropropane	U		0.0700	0.200	1	02/22/2022 12:54	WG1821785
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/22/2022 12:54	WG1821785
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/22/2022 12:54	WG1821785
2,2-Dichloropropane	U		0.0317	0.100	1	02/22/2022 12:54	WG1821785
Di-isopropyl ether	U		0.0140	0.0400	1	02/22/2022 12:54	WG1821785
Ethylbenzene	U		0.0212	0.100	1	02/22/2022 12:54	WG1821785
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/22/2022 12:54	WG1821785
Isopropylbenzene	U		0.0345	0.100	1	02/22/2022 12:54	WG1821785
p-Isopropyltoluene	U		0.0932	0.200	1	02/22/2022 12:54	WG1821785
2-Butanone (MEK)	U		0.500	1.00	1	02/22/2022 12:54	WG1821785
Methylene Chloride	U		0.265	1.00	1	02/22/2022 12:54	WG1821785
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/22/2022 12:54	WG1821785
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/22/2022 12:54	WG1821785
Naphthalene	U		0.124	0.500	1	02/22/2022 12:54	WG1821785
n-Propylbenzene	U		0.0472	0.200	1	02/22/2022 12:54	WG1821785
Styrene	U		0.109	0.500	1	02/22/2022 12:54	WG1821785
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/22/2022 12:54	WG1821785
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/22/2022 12:54	WG1821785
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/22/2022 12:54	WG1821785
Tetrachloroethene	U		0.0280	0.100	1	02/22/2022 12:54	WG1821785
Toluene	U		0.0500	0.200	1	02/22/2022 12:54	WG1821785
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/22/2022 12:54	WG1821785
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/22/2022 12:54	WG1821785
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/22/2022 12:54	WG1821785
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/22/2022 12:54	WG1821785
Trichloroethene	U		0.0160	0.0400	1	02/22/2022 12:54	WG1821785
Trichlorofluoromethane	U	<u>C3</u>	0.0200	0.100	1	02/22/2022 12:54	WG1821785
1,2,3-Trichloropropane	U		0.204	0.500	1	02/22/2022 12:54	WG1821785
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/22/2022 12:54	WG1821785
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/22/2022 12:54	WG1821785
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/22/2022 12:54	WG1821785
Vinyl chloride	U		0.0273	0.100	1	02/22/2022 12:54	WG1821785
Xylenes, Total	U		0.191	0.260	1	02/22/2022 12:54	WG1821785
Ethyl Ether	0.225		0.0170	0.100	1	02/22/2022 12:54	WG1821785
Tetrahydrofuran	U		0.0900	0.500	1	02/22/2022 12:54	WG1821785
Iodomethane	U		0.242	0.500	1	02/22/2022 12:54	WG1821785
Allyl chloride	U		0.580	1.00	1	02/22/2022 12:54	WG1821785
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/22/2022 12:54	WG1821785
(S) Toluene-d8	99.8			75.0-131		02/22/2022 12:54	WG1821785

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	98.7			67.0-138		02/22/2022 12:54	WG1821785
(S) 1,2-Dichloroethane-d4	108			70.0-130		02/22/2022 12:54	WG1821785

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	200000		8450	20000	1	02/23/2022 09:17	WG1820908

Sample Narrative:

L1463246-05 WG1820908: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	112000		2970	25000	5	02/19/2022 17:55	WG1820611

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2060	<u>B</u>	102	1000	1	02/23/2022 16:14	WG1821617

Metals (ICPMS) by Method 6020B

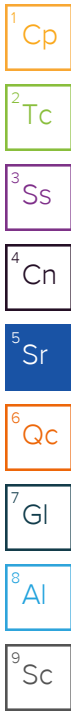
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1870		28.1	100	1	02/23/2022 17:05	WG1820695
Manganese	426		0.704	5.00	1	02/23/2022 17:05	WG1820695

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	122		0.287	0.678	1	02/22/2022 10:15	WG1820658
Ethane	1.09	<u>J</u>	0.296	1.29	1	02/22/2022 10:15	WG1820658
Ethene	U		0.422	1.27	1	02/22/2022 10:15	WG1820658

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	<u>J4</u>	0.548	1.00	1	02/22/2022 13:13	WG1821785
Acrylonitrile	U		0.0760	0.500	1	02/22/2022 13:13	WG1821785
Benzene	0.0210	<u>J</u>	0.0160	0.0400	1	02/22/2022 13:13	WG1821785
Bromobenzene	U		0.0420	0.500	1	02/22/2022 13:13	WG1821785
Bromodichloromethane	U		0.0315	0.100	1	02/22/2022 13:13	WG1821785
Bromoform	U		0.239	1.00	1	02/22/2022 13:13	WG1821785
Bromomethane	U		0.148	0.500	1	02/22/2022 13:13	WG1821785
n-Butylbenzene	U		0.153	0.500	1	02/22/2022 13:13	WG1821785
sec-Butylbenzene	U		0.101	0.500	1	02/22/2022 13:13	WG1821785
tert-Butylbenzene	U		0.0620	0.200	1	02/22/2022 13:13	WG1821785
Carbon tetrachloride	U		0.0432	0.200	1	02/22/2022 13:13	WG1821785
Chlorobenzene	U		0.0229	0.100	1	02/22/2022 13:13	WG1821785
Chlorodibromomethane	U		0.0180	0.100	1	02/22/2022 13:13	WG1821785
Chloroethane	U		0.0432	0.200	1	02/22/2022 13:13	WG1821785
Chloroform	U		0.0166	0.100	1	02/22/2022 13:13	WG1821785
Chloromethane	U		0.0556	0.500	1	02/22/2022 13:13	WG1821785
2-Chlorotoluene	U		0.0368	0.100	1	02/22/2022 13:13	WG1821785
4-Chlorotoluene	U		0.0452	0.200	1	02/22/2022 13:13	WG1821785
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	02/22/2022 13:13	WG1821785
1,2-Dibromoethane	U		0.0210	0.100	1	02/22/2022 13:13	WG1821785
Dibromomethane	U		0.0400	0.200	1	02/22/2022 13:13	WG1821785
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/22/2022 13:13	WG1821785



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/22/2022 13:13	WG1821785
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/22/2022 13:13	WG1821785
Dichlorodifluoromethane	U		0.0327	0.100	1	02/22/2022 13:13	WG1821785
1,1-Dichloroethane	1.82		0.0230	0.100	1	02/22/2022 13:13	WG1821785
1,2-Dichloroethane	0.307		0.0190	0.100	1	02/22/2022 13:13	WG1821785
1,1-Dichloroethene	0.316		0.0200	0.100	1	02/22/2022 13:13	WG1821785
cis-1,2-Dichloroethene	28.4		0.0276	0.100	1	02/22/2022 13:13	WG1821785
trans-1,2-Dichloroethene	0.104	<u>U</u>	0.0572	0.200	1	02/22/2022 13:13	WG1821785
1,2-Dichloropropane	0.644		0.0508	0.200	1	02/22/2022 13:13	WG1821785
1,1-Dichloropropene	U		0.0280	0.100	1	02/22/2022 13:13	WG1821785
1,3-Dichloropropane	U		0.0700	0.200	1	02/22/2022 13:13	WG1821785
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/22/2022 13:13	WG1821785
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/22/2022 13:13	WG1821785
2,2-Dichloropropane	U		0.0317	0.100	1	02/22/2022 13:13	WG1821785
Di-isopropyl ether	U		0.0140	0.0400	1	02/22/2022 13:13	WG1821785
Ethylbenzene	U		0.0212	0.100	1	02/22/2022 13:13	WG1821785
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/22/2022 13:13	WG1821785
Isopropylbenzene	U		0.0345	0.100	1	02/22/2022 13:13	WG1821785
p-Isopropyltoluene	U		0.0932	0.200	1	02/22/2022 13:13	WG1821785
2-Butanone (MEK)	U		0.500	1.00	1	02/22/2022 13:13	WG1821785
Methylene Chloride	U		0.265	1.00	1	02/22/2022 13:13	WG1821785
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/22/2022 13:13	WG1821785
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/22/2022 13:13	WG1821785
Naphthalene	U		0.124	0.500	1	02/22/2022 13:13	WG1821785
n-Propylbenzene	U		0.0472	0.200	1	02/22/2022 13:13	WG1821785
Styrene	U		0.109	0.500	1	02/22/2022 13:13	WG1821785
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/22/2022 13:13	WG1821785
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/22/2022 13:13	WG1821785
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/22/2022 13:13	WG1821785
Tetrachloroethene	54.1		0.0280	0.100	1	02/22/2022 13:13	WG1821785
Toluene	U		0.0500	0.200	1	02/22/2022 13:13	WG1821785
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/22/2022 13:13	WG1821785
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/22/2022 13:13	WG1821785
1,1,1-Trichloroethane	0.155		0.0110	0.100	1	02/22/2022 13:13	WG1821785
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/22/2022 13:13	WG1821785
Trichloroethene	16.8		0.0160	0.0400	1	02/22/2022 13:13	WG1821785
Trichlorofluoromethane	U	<u>C3</u>	0.0200	0.100	1	02/22/2022 13:13	WG1821785
1,2,3-Trichloropropane	U		0.204	0.500	1	02/22/2022 13:13	WG1821785
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/22/2022 13:13	WG1821785
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/22/2022 13:13	WG1821785
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/22/2022 13:13	WG1821785
Vinyl chloride	0.424		0.0273	0.100	1	02/22/2022 13:13	WG1821785
Xylenes, Total	U		0.191	0.260	1	02/22/2022 13:13	WG1821785
Ethyl Ether	U		0.0170	0.100	1	02/22/2022 13:13	WG1821785
Tetrahydrofuran	0.582		0.0900	0.500	1	02/22/2022 13:13	WG1821785
Iodomethane	U		0.242	0.500	1	02/22/2022 13:13	WG1821785
Allyl chloride	U		0.580	1.00	1	02/22/2022 13:13	WG1821785
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/22/2022 13:13	WG1821785
(S) Toluene-d8	98.4			75.0-131		02/22/2022 13:13	WG1821785
(S) 4-Bromofluorobenzene	98.1			67.0-138		02/22/2022 13:13	WG1821785
(S) 1,2-Dichloroethane-d4	111			70.0-130		02/22/2022 13:13	WG1821785

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J3 J4	137	250	250	02/25/2022 03:28	WG1823325
Acrylonitrile	U	J3	19.0	125	250	02/25/2022 03:28	WG1823325
Benzene	U		4.00	10.0	250	02/25/2022 03:28	WG1823325
Bromobenzene	U		10.5	125	250	02/25/2022 03:28	WG1823325
Bromodichloromethane	U		7.88	25.0	250	02/25/2022 03:28	WG1823325
Bromoform	U		59.8	250	250	02/25/2022 03:28	WG1823325
Bromomethane	U		37.0	125	250	02/25/2022 03:28	WG1823325
n-Butylbenzene	U		38.3	125	250	02/25/2022 03:28	WG1823325
sec-Butylbenzene	U		25.3	125	250	02/25/2022 03:28	WG1823325
tert-Butylbenzene	U		15.5	50.0	250	02/25/2022 03:28	WG1823325
Carbon tetrachloride	U		10.8	50.0	250	02/25/2022 03:28	WG1823325
Chlorobenzene	U		5.73	25.0	250	02/25/2022 03:28	WG1823325
Chlorodibromomethane	U		4.50	25.0	250	02/25/2022 03:28	WG1823325
Chloroethane	U		10.8	50.0	250	02/25/2022 03:28	WG1823325
Chloroform	U		4.15	25.0	250	02/25/2022 03:28	WG1823325
Chloromethane	U		13.9	125	250	02/25/2022 03:28	WG1823325
2-Chlorotoluene	U		9.20	25.0	250	02/25/2022 03:28	WG1823325
4-Chlorotoluene	U		11.3	50.0	250	02/25/2022 03:28	WG1823325
1,2-Dibromo-3-Chloropropane	U		51.0	250	250	02/25/2022 03:28	WG1823325
1,2-Dibromoethane	U		5.25	25.0	250	02/25/2022 03:28	WG1823325
Dibromomethane	U		10.0	50.0	250	02/25/2022 03:28	WG1823325
1,2-Dichlorobenzene	U		14.5	50.0	250	02/25/2022 03:28	WG1823325
1,3-Dichlorobenzene	U		17.0	50.0	250	02/25/2022 03:28	WG1823325
1,4-Dichlorobenzene	U		19.7	50.0	250	02/25/2022 03:28	WG1823325
Dichlorodifluoromethane	U		8.18	25.0	250	02/25/2022 03:28	WG1823325
1,1-Dichloroethane	U		5.75	25.0	250	02/25/2022 03:28	WG1823325
1,2-Dichloroethane	U		4.75	25.0	250	02/25/2022 03:28	WG1823325
1,1-Dichloroethene	11.7	J	5.00	25.0	250	02/25/2022 03:28	WG1823325
cis-1,2-Dichloroethene	4940		6.90	25.0	250	02/25/2022 03:28	WG1823325
trans-1,2-Dichloroethene	U		14.3	50.0	250	02/25/2022 03:28	WG1823325
1,2-Dichloropropane	U		12.7	50.0	250	02/25/2022 03:28	WG1823325
1,1-Dichloropropene	U		7.00	25.0	250	02/25/2022 03:28	WG1823325
1,3-Dichloropropane	U		17.5	50.0	250	02/25/2022 03:28	WG1823325
cis-1,3-Dichloropropene	U		6.78	25.0	250	02/25/2022 03:28	WG1823325
trans-1,3-Dichloropropene	U		15.3	50.0	250	02/25/2022 03:28	WG1823325
2,2-Dichloropropane	U		7.93	25.0	250	02/25/2022 03:28	WG1823325
Di-isopropyl ether	U		3.50	10.0	250	02/25/2022 03:28	WG1823325
Ethylbenzene	U		5.30	25.0	250	02/25/2022 03:28	WG1823325
Hexachloro-1,3-butadiene	U		127	250	250	02/25/2022 03:28	WG1823325
Isopropylbenzene	U		8.63	25.0	250	02/25/2022 03:28	WG1823325
p-Isopropyltoluene	U		23.3	50.0	250	02/25/2022 03:28	WG1823325
2-Butanone (MEK)	U		125	250	250	02/25/2022 03:28	WG1823325
Methylene Chloride	U		66.3	250	250	02/25/2022 03:28	WG1823325
4-Methyl-2-pentanone (MIBK)	U		100	250	250	02/25/2022 03:28	WG1823325
Methyl tert-butyl ether	U		2.95	10.0	250	02/25/2022 03:28	WG1823325
Naphthalene	U		31.0	125	250	02/25/2022 03:28	WG1823325
n-Propylbenzene	U		11.8	50.0	250	02/25/2022 03:28	WG1823325
Styrene	U		27.3	125	250	02/25/2022 03:28	WG1823325
1,1,1,2-Tetrachloroethane	U		5.00	25.0	250	02/25/2022 03:28	WG1823325
1,1,2,2-Tetrachloroethane	U	C3	3.90	25.0	250	02/25/2022 03:28	WG1823325
1,1,2-Trichlorotrifluoroethane	U		6.75	25.0	250	02/25/2022 03:28	WG1823325
Tetrachloroethene	U		7.00	25.0	250	02/25/2022 03:28	WG1823325
Toluene	U		12.5	50.0	250	02/25/2022 03:28	WG1823325
1,2,3-Trichlorobenzene	U		6.25	125	250	02/25/2022 03:28	WG1823325
1,2,4-Trichlorobenzene	U		48.3	125	250	02/25/2022 03:28	WG1823325
1,1,1-Trichloroethane	U		2.75	25.0	250	02/25/2022 03:28	WG1823325

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

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Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		8.83	25.0	250	02/25/2022 03:28	WG1823325
Trichloroethene	U		4.00	10.0	250	02/25/2022 03:28	WG1823325
Trichlorofluoromethane	U		5.00	25.0	250	02/25/2022 03:28	WG1823325
1,2,3-Trichloropropane	U		51.0	125	250	02/25/2022 03:28	WG1823325
1,2,4-Trimethylbenzene	U		11.6	50.0	250	02/25/2022 03:28	WG1823325
1,2,3-Trimethylbenzene	U		11.5	50.0	250	02/25/2022 03:28	WG1823325
1,3,5-Trimethylbenzene	U		10.8	50.0	250	02/25/2022 03:28	WG1823325
Vinyl chloride	4410		6.82	25.0	250	02/25/2022 03:28	WG1823325
Xylenes, Total	U		47.8	65.0	250	02/25/2022 03:28	WG1823325
Ethyl Ether	U		4.25	25.0	250	02/25/2022 03:28	WG1823325
Tetrahydrofuran	U	J3 J4	22.5	125	250	02/25/2022 03:28	WG1823325
Iodomethane	U		60.5	125	250	02/25/2022 03:28	WG1823325
Allyl chloride	U		145	250	250	02/25/2022 03:28	WG1823325
Trans-1,4-Dichloro-2-butene	U		14.0	50.0	250	02/25/2022 03:28	WG1823325
(S) Toluene-d8	96.1			75.0-131		02/25/2022 03:28	WG1823325
(S) 4-Bromofluorobenzene	92.8			67.0-138		02/25/2022 03:28	WG1823325
(S) 1,2-Dichloroethane-d4	115			70.0-130		02/25/2022 03:28	WG1823325

1 Cp

2 Tc

3 Ss

4 Cn

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Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J3 J4	1100	2000	2000	02/25/2022 03:47	WG1823325
Acrylonitrile	U	J3	152	1000	2000	02/25/2022 03:47	WG1823325
Benzene	U		32.0	80.0	2000	02/25/2022 03:47	WG1823325
Bromobenzene	U		84.0	1000	2000	02/25/2022 03:47	WG1823325
Bromodichloromethane	U		63.0	200	2000	02/25/2022 03:47	WG1823325
Bromoform	U		478	2000	2000	02/25/2022 03:47	WG1823325
Bromomethane	U		296	1000	2000	02/25/2022 03:47	WG1823325
n-Butylbenzene	U		306	1000	2000	02/25/2022 03:47	WG1823325
sec-Butylbenzene	U		202	1000	2000	02/25/2022 03:47	WG1823325
tert-Butylbenzene	U		124	400	2000	02/25/2022 03:47	WG1823325
Carbon tetrachloride	U		86.4	400	2000	02/25/2022 03:47	WG1823325
Chlorobenzene	U		45.8	200	2000	02/25/2022 03:47	WG1823325
Chlorodibromomethane	U		36.0	200	2000	02/25/2022 03:47	WG1823325
Chloroethane	U		86.4	400	2000	02/25/2022 03:47	WG1823325
Chloroform	U		33.2	200	2000	02/25/2022 03:47	WG1823325
Chloromethane	U		111	1000	2000	02/25/2022 03:47	WG1823325
2-Chlorotoluene	U		73.6	200	2000	02/25/2022 03:47	WG1823325
4-Chlorotoluene	U		90.4	400	2000	02/25/2022 03:47	WG1823325
1,2-Dibromo-3-Chloropropane	U		408	2000	2000	02/25/2022 03:47	WG1823325
1,2-Dibromoethane	U		42.0	200	2000	02/25/2022 03:47	WG1823325
Dibromomethane	U		80.0	400	2000	02/25/2022 03:47	WG1823325
1,2-Dichlorobenzene	U		116	400	2000	02/25/2022 03:47	WG1823325
1,3-Dichlorobenzene	U		136	400	2000	02/25/2022 03:47	WG1823325
1,4-Dichlorobenzene	U		158	400	2000	02/25/2022 03:47	WG1823325
Dichlorodifluoromethane	U		65.4	200	2000	02/25/2022 03:47	WG1823325
1,1-Dichloroethane	U		46.0	200	2000	02/25/2022 03:47	WG1823325
1,2-Dichloroethane	U		38.0	200	2000	02/25/2022 03:47	WG1823325
1,1-Dichloroethene	52.0	J	40.0	200	2000	02/25/2022 03:47	WG1823325
cis-1,2-Dichloroethene	40700		55.2	200	2000	02/25/2022 03:47	WG1823325
trans-1,2-Dichloroethene	U		114	400	2000	02/25/2022 03:47	WG1823325
1,2-Dichloropropane	U		102	400	2000	02/25/2022 03:47	WG1823325
1,1-Dichloropropene	U		56.0	200	2000	02/25/2022 03:47	WG1823325
1,3-Dichloropropane	U		140	400	2000	02/25/2022 03:47	WG1823325
cis-1,3-Dichloropropene	U		54.2	200	2000	02/25/2022 03:47	WG1823325
trans-1,3-Dichloropropene	U		122	400	2000	02/25/2022 03:47	WG1823325
2,2-Dichloropropane	U		63.4	200	2000	02/25/2022 03:47	WG1823325
Di-isopropyl ether	U		28.0	80.0	2000	02/25/2022 03:47	WG1823325
Ethylbenzene	U		42.4	200	2000	02/25/2022 03:47	WG1823325
Hexachloro-1,3-butadiene	U		1020	2000	2000	02/25/2022 03:47	WG1823325
Isopropylbenzene	U		69.0	200	2000	02/25/2022 03:47	WG1823325
p-Isopropyltoluene	U		186	400	2000	02/25/2022 03:47	WG1823325
2-Butanone (MEK)	U		1000	2000	2000	02/25/2022 03:47	WG1823325
Methylene Chloride	U		530	2000	2000	02/25/2022 03:47	WG1823325
4-Methyl-2-pentanone (MIBK)	U		800	2000	2000	02/25/2022 03:47	WG1823325
Methyl tert-butyl ether	U		23.6	80.0	2000	02/25/2022 03:47	WG1823325
Naphthalene	U		248	1000	2000	02/25/2022 03:47	WG1823325
n-Propylbenzene	U		94.4	400	2000	02/25/2022 03:47	WG1823325
Styrene	U		218	1000	2000	02/25/2022 03:47	WG1823325
1,1,1,2-Tetrachloroethane	U		40.0	200	2000	02/25/2022 03:47	WG1823325
1,1,2,2-Tetrachloroethane	U	C3	31.2	200	2000	02/25/2022 03:47	WG1823325
1,1,2-Trichlorotrifluoroethane	U		54.0	200	2000	02/25/2022 03:47	WG1823325
Tetrachloroethene	198	J	56.0	200	2000	02/25/2022 03:47	WG1823325
Toluene	U		100	400	2000	02/25/2022 03:47	WG1823325
1,2,3-Trichlorobenzene	U		50.0	1000	2000	02/25/2022 03:47	WG1823325
1,2,4-Trichlorobenzene	U		386	1000	2000	02/25/2022 03:47	WG1823325
1,1,1-Trichloroethane	U		22.0	200	2000	02/25/2022 03:47	WG1823325

1 Cp

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Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		70.6	200	2000	02/25/2022 03:47	WG1823325
Trichloroethene	118		32.0	80.0	2000	02/25/2022 03:47	WG1823325
Trichlorofluoromethane	U		40.0	200	2000	02/25/2022 03:47	WG1823325
1,2,3-Trichloropropane	U		408	1000	2000	02/25/2022 03:47	WG1823325
1,2,4-Trimethylbenzene	U		92.8	400	2000	02/25/2022 03:47	WG1823325
1,2,3-Trimethylbenzene	U		92.0	400	2000	02/25/2022 03:47	WG1823325
1,3,5-Trimethylbenzene	U		86.4	400	2000	02/25/2022 03:47	WG1823325
Vinyl chloride	19500		54.6	200	2000	02/25/2022 03:47	WG1823325
Xylenes, Total	U		382	520	2000	02/25/2022 03:47	WG1823325
Ethyl Ether	U		34.0	200	2000	02/25/2022 03:47	WG1823325
Tetrahydrofuran	U	J3 J4	180	1000	2000	02/25/2022 03:47	WG1823325
Iodomethane	U		484	1000	2000	02/25/2022 03:47	WG1823325
Allyl chloride	U		1160	2000	2000	02/25/2022 03:47	WG1823325
Trans-1,4-Dichloro-2-butene	U		112	400	2000	02/25/2022 03:47	WG1823325
(S) Toluene-d8	97.7			75.0-131		02/25/2022 03:47	WG1823325
(S) 4-Bromofluorobenzene	93.8			67.0-138		02/25/2022 03:47	WG1823325
(S) 1,2-Dichloroethane-d4	113			70.0-130		02/25/2022 03:47	WG1823325

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Cp

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Tc

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Ss

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Cn

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Sr

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Gl

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Al

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Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J3 J4	137	250	250	02/25/2022 04:06	WG1823325
Acrylonitrile	U	J3	19.0	125	250	02/25/2022 04:06	WG1823325
Benzene	U		4.00	10.0	250	02/25/2022 04:06	WG1823325
Bromobenzene	U		10.5	125	250	02/25/2022 04:06	WG1823325
Bromodichloromethane	U		7.88	25.0	250	02/25/2022 04:06	WG1823325
Bromoform	U		59.8	250	250	02/25/2022 04:06	WG1823325
Bromomethane	U		37.0	125	250	02/25/2022 04:06	WG1823325
n-Butylbenzene	U		38.3	125	250	02/25/2022 04:06	WG1823325
sec-Butylbenzene	U		25.3	125	250	02/25/2022 04:06	WG1823325
tert-Butylbenzene	U		15.5	50.0	250	02/25/2022 04:06	WG1823325
Carbon tetrachloride	U		10.8	50.0	250	02/25/2022 04:06	WG1823325
Chlorobenzene	U		5.73	25.0	250	02/25/2022 04:06	WG1823325
Chlorodibromomethane	U		4.50	25.0	250	02/25/2022 04:06	WG1823325
Chloroethane	U		10.8	50.0	250	02/25/2022 04:06	WG1823325
Chloroform	U		4.15	25.0	250	02/25/2022 04:06	WG1823325
Chloromethane	U		13.9	125	250	02/25/2022 04:06	WG1823325
2-Chlorotoluene	U		9.20	25.0	250	02/25/2022 04:06	WG1823325
4-Chlorotoluene	U		11.3	50.0	250	02/25/2022 04:06	WG1823325
1,2-Dibromo-3-Chloropropane	U		51.0	250	250	02/25/2022 04:06	WG1823325
1,2-Dibromoethane	U		5.25	25.0	250	02/25/2022 04:06	WG1823325
Dibromomethane	U		10.0	50.0	250	02/25/2022 04:06	WG1823325
1,2-Dichlorobenzene	U		14.5	50.0	250	02/25/2022 04:06	WG1823325
1,3-Dichlorobenzene	U		17.0	50.0	250	02/25/2022 04:06	WG1823325
1,4-Dichlorobenzene	U		19.7	50.0	250	02/25/2022 04:06	WG1823325
Dichlorodifluoromethane	U		8.18	25.0	250	02/25/2022 04:06	WG1823325
1,1-Dichloroethane	U		5.75	25.0	250	02/25/2022 04:06	WG1823325
1,2-Dichloroethane	U		4.75	25.0	250	02/25/2022 04:06	WG1823325
1,1-Dichloroethene	17.0	J	5.00	25.0	250	02/25/2022 04:06	WG1823325
cis-1,2-Dichloroethene	1880		6.90	25.0	250	02/25/2022 04:06	WG1823325
trans-1,2-Dichloroethene	43.0	J	14.3	50.0	250	02/25/2022 04:06	WG1823325
1,2-Dichloropropane	U		12.7	50.0	250	02/25/2022 04:06	WG1823325
1,1-Dichloropropene	U		7.00	25.0	250	02/25/2022 04:06	WG1823325
1,3-Dichloropropane	U		17.5	50.0	250	02/25/2022 04:06	WG1823325
cis-1,3-Dichloropropene	U		6.78	25.0	250	02/25/2022 04:06	WG1823325
trans-1,3-Dichloropropene	U		15.3	50.0	250	02/25/2022 04:06	WG1823325
2,2-Dichloropropane	U		7.93	25.0	250	02/25/2022 04:06	WG1823325
Di-isopropyl ether	U		3.50	10.0	250	02/25/2022 04:06	WG1823325
Ethylbenzene	U		5.30	25.0	250	02/25/2022 04:06	WG1823325
Hexachloro-1,3-butadiene	U		127	250	250	02/25/2022 04:06	WG1823325
Isopropylbenzene	U		8.63	25.0	250	02/25/2022 04:06	WG1823325
p-Isopropyltoluene	U		23.3	50.0	250	02/25/2022 04:06	WG1823325
2-Butanone (MEK)	U		125	250	250	02/25/2022 04:06	WG1823325
Methylene Chloride	U		66.3	250	250	02/25/2022 04:06	WG1823325
4-Methyl-2-pentanone (MIBK)	U		100	250	250	02/25/2022 04:06	WG1823325
Methyl tert-butyl ether	U		2.95	10.0	250	02/25/2022 04:06	WG1823325
Naphthalene	U		31.0	125	250	02/25/2022 04:06	WG1823325
n-Propylbenzene	U		11.8	50.0	250	02/25/2022 04:06	WG1823325
Styrene	U		27.3	125	250	02/25/2022 04:06	WG1823325
1,1,1,2-Tetrachloroethane	U		5.00	25.0	250	02/25/2022 04:06	WG1823325
1,1,2,2-Tetrachloroethane	U	C3	3.90	25.0	250	02/25/2022 04:06	WG1823325
1,1,2-Trichlorotrifluoroethane	U		6.75	25.0	250	02/25/2022 04:06	WG1823325
Tetrachloroethene	U		7.00	25.0	250	02/25/2022 04:06	WG1823325
Toluene	U		12.5	50.0	250	02/25/2022 04:06	WG1823325
1,2,3-Trichlorobenzene	U		6.25	125	250	02/25/2022 04:06	WG1823325
1,2,4-Trichlorobenzene	U		48.3	125	250	02/25/2022 04:06	WG1823325
1,1,1-Trichloroethane	U		2.75	25.0	250	02/25/2022 04:06	WG1823325

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		8.83	25.0	250	02/25/2022 04:06	WG1823325
Trichloroethene	U		4.00	10.0	250	02/25/2022 04:06	WG1823325
Trichlorofluoromethane	U		5.00	25.0	250	02/25/2022 04:06	WG1823325
1,2,3-Trichloropropane	U		51.0	125	250	02/25/2022 04:06	WG1823325
1,2,4-Trimethylbenzene	U		11.6	50.0	250	02/25/2022 04:06	WG1823325
1,2,3-Trimethylbenzene	U		11.5	50.0	250	02/25/2022 04:06	WG1823325
1,3,5-Trimethylbenzene	U		10.8	50.0	250	02/25/2022 04:06	WG1823325
Vinyl chloride	9100		6.82	25.0	250	02/25/2022 04:06	WG1823325
Xylenes, Total	U		47.8	65.0	250	02/25/2022 04:06	WG1823325
Ethyl Ether	U		4.25	25.0	250	02/25/2022 04:06	WG1823325
Tetrahydrofuran	U	J3 J4	22.5	125	250	02/25/2022 04:06	WG1823325
Iodomethane	U		60.5	125	250	02/25/2022 04:06	WG1823325
Allyl chloride	U		145	250	250	02/25/2022 04:06	WG1823325
Trans-1,4-Dichloro-2-butene	U		14.0	50.0	250	02/25/2022 04:06	WG1823325
(S) Toluene-d8	98.1			75.0-131		02/25/2022 04:06	WG1823325
(S) 4-Bromofluorobenzene	96.9			67.0-138		02/25/2022 04:06	WG1823325
(S) 1,2-Dichloroethane-d4	115			70.0-130		02/25/2022 04:06	WG1823325

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Cp

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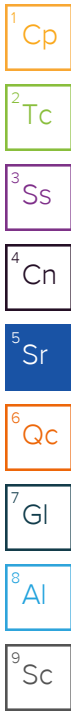
7
Gl

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Al

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Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	02/22/2022 16:04	WG1821785
Acrylonitrile	U		0.0760	0.500	1	02/22/2022 16:04	WG1821785
Benzene	U		0.0160	0.0400	1	02/22/2022 16:04	WG1821785
Bromobenzene	U		0.0420	0.500	1	02/22/2022 16:04	WG1821785
Bromodichloromethane	U		0.0315	0.100	1	02/22/2022 16:04	WG1821785
Bromoform	U		0.239	1.00	1	02/22/2022 16:04	WG1821785
Bromomethane	U		0.148	0.500	1	02/22/2022 16:04	WG1821785
n-Butylbenzene	U		0.153	0.500	1	02/22/2022 16:04	WG1821785
sec-Butylbenzene	U		0.101	0.500	1	02/22/2022 16:04	WG1821785
tert-Butylbenzene	U		0.0620	0.200	1	02/22/2022 16:04	WG1821785
Carbon tetrachloride	U		0.0432	0.200	1	02/22/2022 16:04	WG1821785
Chlorobenzene	U		0.0229	0.100	1	02/22/2022 16:04	WG1821785
Chlorodibromomethane	U		0.0180	0.100	1	02/22/2022 16:04	WG1821785
Chloroethane	6.41		0.0432	0.200	1	02/22/2022 16:04	WG1821785
Chloroform	U		0.0166	0.100	1	02/22/2022 16:04	WG1821785
Chloromethane	U		0.0556	0.500	1	02/22/2022 16:04	WG1821785
2-Chlorotoluene	U		0.0368	0.100	1	02/22/2022 16:04	WG1821785
4-Chlorotoluene	U		0.0452	0.200	1	02/22/2022 16:04	WG1821785
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	02/22/2022 16:04	WG1821785
1,2-Dibromoethane	U		0.0210	0.100	1	02/22/2022 16:04	WG1821785
Dibromomethane	U		0.0400	0.200	1	02/22/2022 16:04	WG1821785
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/22/2022 16:04	WG1821785
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/22/2022 16:04	WG1821785
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/22/2022 16:04	WG1821785
Dichlorodifluoromethane	U		0.0327	0.100	1	02/22/2022 16:04	WG1821785
1,1-Dichloroethane	U		0.0230	0.100	1	02/22/2022 16:04	WG1821785
1,2-Dichloroethane	U		0.0190	0.100	1	02/22/2022 16:04	WG1821785
1,1-Dichloroethene	16.5		0.0200	0.100	1	02/22/2022 16:04	WG1821785
cis-1,2-Dichloroethene	361		0.552	2.00	20	02/25/2022 04:25	WG1823325
trans-1,2-Dichloroethene	6.54		0.0572	0.200	1	02/22/2022 16:04	WG1821785
1,2-Dichloropropane	U		0.0508	0.200	1	02/22/2022 16:04	WG1821785
1,1-Dichloropropene	U		0.0280	0.100	1	02/22/2022 16:04	WG1821785
1,3-Dichloropropane	U		0.0700	0.200	1	02/22/2022 16:04	WG1821785
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/22/2022 16:04	WG1821785
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/22/2022 16:04	WG1821785
2,2-Dichloropropane	U		0.0317	0.100	1	02/22/2022 16:04	WG1821785
Di-isopropyl ether	U		0.0140	0.0400	1	02/22/2022 16:04	WG1821785
Ethylbenzene	U		0.0212	0.100	1	02/22/2022 16:04	WG1821785
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/22/2022 16:04	WG1821785
Isopropylbenzene	U		0.0345	0.100	1	02/22/2022 16:04	WG1821785
p-Isopropyltoluene	U		0.0932	0.200	1	02/22/2022 16:04	WG1821785
2-Butanone (MEK)	U		0.500	1.00	1	02/22/2022 16:04	WG1821785
Methylene Chloride	U		0.265	1.00	1	02/22/2022 16:04	WG1821785
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/22/2022 16:04	WG1821785
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/22/2022 16:04	WG1821785
Naphthalene	U		0.124	0.500	1	02/22/2022 16:04	WG1821785
n-Propylbenzene	U		0.0472	0.200	1	02/22/2022 16:04	WG1821785
Styrene	U		0.109	0.500	1	02/22/2022 16:04	WG1821785
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/22/2022 16:04	WG1821785
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/22/2022 16:04	WG1821785
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/22/2022 16:04	WG1821785
Tetrachloroethene	370		0.560	2.00	20	02/25/2022 04:25	WG1823325
Toluene	U		0.0500	0.200	1	02/22/2022 16:04	WG1821785
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/22/2022 16:04	WG1821785
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/22/2022 16:04	WG1821785
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/22/2022 16:04	WG1821785



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/22/2022 16:04	WG1821785
Trichloroethene	309		0.320	0.800	20	02/25/2022 04:25	WG1823325
Trichlorofluoromethane	U	<u>C3</u>	0.0200	0.100	1	02/22/2022 16:04	WG1821785
1,2,3-Trichloropropane	U		0.204	0.500	1	02/22/2022 16:04	WG1821785
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/22/2022 16:04	WG1821785
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/22/2022 16:04	WG1821785
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/22/2022 16:04	WG1821785
Vinyl chloride	27.4		0.0273	0.100	1	02/22/2022 16:04	WG1821785
Xylenes, Total	U		0.191	0.260	1	02/22/2022 16:04	WG1821785
Ethyl Ether	U		0.0170	0.100	1	02/22/2022 16:04	WG1821785
Tetrahydrofuran	U		0.0900	0.500	1	02/22/2022 16:04	WG1821785
Iodomethane	U		0.242	0.500	1	02/22/2022 16:04	WG1821785
Allyl chloride	U		0.580	1.00	1	02/22/2022 16:04	WG1821785
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/22/2022 16:04	WG1821785
(S) Toluene-d8	99.9			75.0-131		02/22/2022 16:04	WG1821785
(S) Toluene-d8	96.8			75.0-131		02/25/2022 04:25	WG1823325
(S) 4-Bromofluorobenzene	98.1			67.0-138		02/22/2022 16:04	WG1821785
(S) 4-Bromofluorobenzene	97.8			67.0-138		02/25/2022 04:25	WG1823325
(S) 1,2-Dichloroethane-d4	110			70.0-130		02/22/2022 16:04	WG1821785
(S) 1,2-Dichloroethane-d4	121			70.0-130		02/25/2022 04:25	WG1823325

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.79	<u>C5 C7 J4</u>	0.548	1.00	1	02/22/2022 13:32	WG1821785
Acrylonitrile	U		0.0760	0.500	1	02/22/2022 13:32	WG1821785
Benzene	0.0910		0.0160	0.0400	1	02/22/2022 13:32	WG1821785
Bromobenzene	U		0.0420	0.500	1	02/22/2022 13:32	WG1821785
Bromodichloromethane	U		0.0315	0.100	1	02/22/2022 13:32	WG1821785
Bromoform	U		0.239	1.00	1	02/22/2022 13:32	WG1821785
Bromomethane	U		0.148	0.500	1	02/22/2022 13:32	WG1821785
n-Butylbenzene	U		0.153	0.500	1	02/22/2022 13:32	WG1821785
sec-Butylbenzene	U		0.101	0.500	1	02/22/2022 13:32	WG1821785
tert-Butylbenzene	U		0.0620	0.200	1	02/22/2022 13:32	WG1821785
Carbon tetrachloride	U		0.0432	0.200	1	02/22/2022 13:32	WG1821785
Chlorobenzene	U		0.0229	0.100	1	02/22/2022 13:32	WG1821785
Chlorodibromomethane	U		0.0180	0.100	1	02/22/2022 13:32	WG1821785
Chloroethane	U		0.0432	0.200	1	02/22/2022 13:32	WG1821785
Chloroform	U		0.0166	0.100	1	02/22/2022 13:32	WG1821785
Chloromethane	U		0.0556	0.500	1	02/22/2022 13:32	WG1821785
2-Chlorotoluene	U		0.0368	0.100	1	02/22/2022 13:32	WG1821785
4-Chlorotoluene	U		0.0452	0.200	1	02/22/2022 13:32	WG1821785
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	02/22/2022 13:32	WG1821785
1,2-Dibromoethane	U		0.0210	0.100	1	02/22/2022 13:32	WG1821785
Dibromomethane	U		0.0400	0.200	1	02/22/2022 13:32	WG1821785
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/22/2022 13:32	WG1821785
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/22/2022 13:32	WG1821785
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/22/2022 13:32	WG1821785
Dichlorodifluoromethane	U		0.0327	0.100	1	02/22/2022 13:32	WG1821785
1,1-Dichloroethane	U		0.0230	0.100	1	02/22/2022 13:32	WG1821785
1,2-Dichloroethane	U		0.0190	0.100	1	02/22/2022 13:32	WG1821785
1,1-Dichloroethene	U		0.0200	0.100	1	02/22/2022 13:32	WG1821785
cis-1,2-Dichloroethene	0.0680	<u>J</u>	0.0276	0.100	1	02/22/2022 13:32	WG1821785
trans-1,2-Dichloroethene	0.417		0.0572	0.200	1	02/22/2022 13:32	WG1821785
1,2-Dichloropropane	U		0.0508	0.200	1	02/22/2022 13:32	WG1821785
1,1-Dichloropropene	U		0.0280	0.100	1	02/22/2022 13:32	WG1821785
1,3-Dichloropropane	U		0.0700	0.200	1	02/22/2022 13:32	WG1821785
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/22/2022 13:32	WG1821785
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/22/2022 13:32	WG1821785
2,2-Dichloropropane	U		0.0317	0.100	1	02/22/2022 13:32	WG1821785
Di-isopropyl ether	U		0.0140	0.0400	1	02/22/2022 13:32	WG1821785
Ethylbenzene	U		0.0212	0.100	1	02/22/2022 13:32	WG1821785
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/22/2022 13:32	WG1821785
Isopropylbenzene	U		0.0345	0.100	1	02/22/2022 13:32	WG1821785
p-Isopropyltoluene	U		0.0932	0.200	1	02/22/2022 13:32	WG1821785
2-Butanone (MEK)	U		0.500	1.00	1	02/22/2022 13:32	WG1821785
Methylene Chloride	U		0.265	1.00	1	02/22/2022 13:32	WG1821785
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/22/2022 13:32	WG1821785
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/22/2022 13:32	WG1821785
Naphthalene	U		0.124	0.500	1	02/22/2022 13:32	WG1821785
n-Propylbenzene	U		0.0472	0.200	1	02/22/2022 13:32	WG1821785
Styrene	U		0.109	0.500	1	02/22/2022 13:32	WG1821785
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/22/2022 13:32	WG1821785
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/22/2022 13:32	WG1821785
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/22/2022 13:32	WG1821785
Tetrachloroethene	0.267		0.0280	0.100	1	02/22/2022 13:32	WG1821785
Toluene	U		0.0500	0.200	1	02/22/2022 13:32	WG1821785
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/22/2022 13:32	WG1821785
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/22/2022 13:32	WG1821785
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/22/2022 13:32	WG1821785

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/22/2022 13:32	WG1821785
Trichloroethene	0.0340	<u>J</u>	0.0160	0.0400	1	02/22/2022 13:32	WG1821785
Trichlorofluoromethane	U	<u>C3</u>	0.0200	0.100	1	02/22/2022 13:32	WG1821785
1,2,3-Trichloropropane	U		0.204	0.500	1	02/22/2022 13:32	WG1821785
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/22/2022 13:32	WG1821785
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/22/2022 13:32	WG1821785
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/22/2022 13:32	WG1821785
Vinyl chloride	1.39		0.0273	0.100	1	02/22/2022 13:32	WG1821785
Xylenes, Total	U		0.191	0.260	1	02/22/2022 13:32	WG1821785
Ethyl Ether	U		0.0170	0.100	1	02/22/2022 13:32	WG1821785
Tetrahydrofuran	U		0.0900	0.500	1	02/22/2022 13:32	WG1821785
Iodomethane	U		0.242	0.500	1	02/22/2022 13:32	WG1821785
Allyl chloride	U		0.580	1.00	1	02/22/2022 13:32	WG1821785
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/22/2022 13:32	WG1821785
(S) Toluene-d8	99.2			75.0-131		02/22/2022 13:32	WG1821785
(S) 4-Bromofluorobenzene	96.5			67.0-138		02/22/2022 13:32	WG1821785
(S) 1,2-Dichloroethane-d4	109			70.0-130		02/22/2022 13:32	WG1821785

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3762937-2 02/23/22 08:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	U		8450	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1463227-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1463227-03 02/23/22 08:28 • (DUP) R3762937-3 02/23/22 08:32

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	U	U	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1463254-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1463254-02 02/23/22 09:21 • (DUP) R3762937-4 02/23/22 09:24

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	641000	642000	1	0.116		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3762937-1 02/23/22 08:20

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	106000	106	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3762526-1 02/19/22 07:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Sulfate	U		594	5000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1462918-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1462918-01 02/19/22 12:37 • (DUP) R3762526-3 02/19/22 12:53

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	23600	23300	1	1.37		20

L1463258-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1463258-01 02/19/22 18:11 • (DUP) R3762526-6 02/19/22 18:27

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	10600	10600	1	0.0425		20

Laboratory Control Sample (LCS)

(LCS) R3762526-2 02/19/22 07:44

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Sulfate	40000	42500	106	90.0-110	

L1462918-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1462918-01 02/19/22 12:37 • (MS) R3762526-4 02/19/22 13:09 • (MSD) R3762526-5 02/19/22 13:25

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Sulfate	50000	23600	71500	69300	95.7	91.2	1	80.0-120			3.14	20

L1463258-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1463258-01 02/19/22 18:11 • (MS) R3762526-7 02/19/22 18:43

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Sulfate	50000	10600	62100	103	1	80.0-120	

Method Blank (MB)

(MB) R3762305-2 02/19/22 11:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	465	↓	102	1000

1 Cp

2 Tc

3 Ss

L1462842-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1462842-04 02/19/22 14:16 • (DUP) R3762305-5 02/19/22 14:32

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	21800	21900	1	0.274		20

4 Cn

5 Sr

6 Qc

L1462973-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1462973-01 02/19/22 15:13 • (DUP) R3762305-6 02/19/22 15:26

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	558	567	1	1.49	↓	20

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3762305-1 02/19/22 11:34

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC	75000	75000	100	85.0-115	

L1462841-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1462841-09 02/19/22 12:40 • (MS) R3762305-3 02/19/22 12:58 • (MSD) R3762305-4 02/19/22 13:15

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	50000	629	50800	50500	100	99.6	1	80.0-120			0.691	20

L1463188-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1463188-05 02/19/22 17:52 • (MS) R3762305-7 02/19/22 18:09 • (MSD) R3762305-8 02/19/22 18:33

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	50000	384	50600	51200	100	102	1	80.0-120			1.20	20

Method Blank (MB)

(MB) R3763295-2 02/23/22 09:29

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	248	↓	102	1000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1463188-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1463188-04 02/23/22 14:29 • (DUP) R3763295-7 02/23/22 14:44

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	20500	20400	1	0.441		20

L1463577-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1463577-05 02/23/22 18:04 • (DUP) R3763295-10 02/23/22 18:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	3760	3690	1	1.96		20

Laboratory Control Sample (LCS)

(LCS) R3763295-1 02/23/22 09:09

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	73600	98.1	85.0-115	

L1462535-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1462535-04 02/23/22 12:50 • (MS) R3763295-5 02/23/22 13:02 • (MSD) R3763295-6 02/23/22 13:13

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	296	241	213	0.000	0.000	1	80.0-120	J6	J6	12.3	20

Sample Narrative:

MS: No spike recovery due to matrix. Re-ran to confirm.

MSD: No spike recovery due to matrix. Re-ran to confirm

Method Blank (MB)

(MB) R3763164-1 02/23/22 15:09

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		28.1	100
Manganese	U		0.704	5.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3763164-2 02/23/22 15:13

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron	5000	4990	99.9	80.0-120	
Manganese	50.0	51.6	103	80.0-120	

L1463485-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1463485-01 02/23/22 15:16 • (MS) R3763164-4 02/23/22 15:22 • (MSD) R3763164-5 02/23/22 15:26

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	1030	5770	5860	94.9	96.6	1	75.0-125			1.45	20
Manganese	50.0	861	887	905	51.5	87.8	1	75.0-125	V		2.03	20

Method Blank (MB)

(MB) R3762548-2 02/19/22 03:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	109			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3762548-1 02/19/22 02:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	6300	115	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			100	78.0-120	

L1463248-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1463248-03 02/19/22 08:56 • (MS) R3762548-3 02/19/22 12:01 • (MSD) R3762548-4 02/19/22 12:25

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	67.2	3390	6280	60.4	113	1	10.0-155		J3	59.8	21
(S) a,a,a-Trifluorotoluene(FID)					103	100		78.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3762441-2 02/22/22 09:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1463000-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1463000-02 02/22/22 09:49 • (DUP) R3762441-3 02/22/22 09:51

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	U	U	1	0.000		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1463254-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1463254-04 02/22/22 11:07 • (DUP) R3762441-4 02/22/22 11:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	1640	1770	1	7.62		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3762441-1 02/22/22 09:01 • (LCSD) R3762441-7 02/22/22 11:21

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	64.9	67.6	95.7	99.7	85.0-115			4.08	20
Ethane	129	121	122	93.8	94.6	85.0-115			0.823	20
Ethene	127	123	123	96.9	96.9	85.0-115			0.000	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1463000-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1463000-01 02/22/22 09:41 • (MS) R3762441-5 02/22/22 11:13 • (MSD) R3762441-6 02/22/22 11:17

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methane	67.8	U	63.4	65.6	93.5	96.8	1	85.0-115			3.41	20
Ethane	129	U	115	108	89.1	83.7	1	85.0-115		J6	6.28	20
Ethene	127	U	116	109	91.3	85.8	1	85.0-115			6.22	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3763456-3 02/22/22 11:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3763456-3 02/22/22 11:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	97.9			75.0-131
(S) 4-Bromofluorobenzene	102			67.0-138
(S) 1,2-Dichloroethane-d4	109			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3763456-1 02/22/22 09:53 • (LCSD) R3763456-2 02/22/22 10:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	44.8	36.0	179	144	10.0-160	J4		21.8	31
Acrylonitrile	25.0	23.8	21.1	95.2	84.4	45.0-153			12.0	22
Benzene	5.00	4.41	4.45	88.2	89.0	70.0-123			0.903	20
Bromobenzene	5.00	4.68	4.95	93.6	99.0	73.0-121			5.61	20
Bromodichloromethane	5.00	5.20	5.22	104	104	73.0-121			0.384	20
Bromoform	5.00	5.72	5.53	114	111	64.0-132			3.38	20
Bromomethane	5.00	4.62	4.56	92.4	91.2	56.0-147			1.31	20
n-Butylbenzene	5.00	4.41	4.71	88.2	94.2	68.0-135			6.58	20
sec-Butylbenzene	5.00	4.46	4.78	89.2	95.6	74.0-130			6.93	20
tert-Butylbenzene	5.00	4.57	4.98	91.4	99.6	75.0-127			8.59	20
Carbon tetrachloride	5.00	5.33	5.49	107	110	66.0-128			2.96	20
Chlorobenzene	5.00	4.92	4.88	98.4	97.6	76.0-128			0.816	20
Chlorodibromomethane	5.00	5.47	5.31	109	106	74.0-127			2.97	20
Chloroethane	5.00	4.47	4.38	89.4	87.6	61.0-134			2.03	20
Chloroform	5.00	4.92	5.08	98.4	102	72.0-123			3.20	20
Chloromethane	5.00	4.13	4.24	82.6	84.8	51.0-138			2.63	20
2-Chlorotoluene	5.00	4.70	4.78	94.0	95.6	75.0-124			1.69	20
4-Chlorotoluene	5.00	4.78	5.09	95.6	102	75.0-124			6.28	20
1,2-Dibromo-3-Chloropropane	5.00	4.23	4.29	84.6	85.8	59.0-130			1.41	20
1,2-Dibromoethane	5.00	5.15	4.88	103	97.6	74.0-128			5.38	20
Dibromomethane	5.00	4.84	4.84	96.8	96.8	75.0-122			0.000	20
1,2-Dichlorobenzene	5.00	4.63	4.95	92.6	99.0	76.0-124			6.68	20
1,3-Dichlorobenzene	5.00	4.83	5.16	96.6	103	76.0-125			6.61	20
1,4-Dichlorobenzene	5.00	4.70	4.78	94.0	95.6	77.0-121			1.69	20
trans-1,4-Dichloro-2-butene	5.00	5.01	4.89	100	97.8	45.0-143			2.42	20
Dichlorodifluoromethane	5.00	5.42	5.52	108	110	43.0-156			1.83	20
1,1-Dichloroethane	5.00	4.85	4.84	97.0	96.8	70.0-127			0.206	20
1,2-Dichloroethane	5.00	5.41	5.42	108	108	65.0-131			0.185	20
1,1-Dichloroethene	5.00	4.74	4.81	94.8	96.2	65.0-131			1.47	20
cis-1,2-Dichloroethene	5.00	5.07	5.18	101	104	73.0-125			2.15	20
trans-1,2-Dichloroethene	5.00	4.99	5.04	99.8	101	71.0-125			0.997	20
1,2-Dichloropropane	5.00	4.87	4.80	97.4	96.0	74.0-125			1.45	20
1,1-Dichloropropene	5.00	4.79	4.86	95.8	97.2	73.0-125			1.45	20
1,3-Dichloropropane	5.00	4.91	4.77	98.2	95.4	80.0-125			2.89	20
cis-1,3-Dichloropropene	5.00	5.27	5.17	105	103	76.0-127			1.92	20
trans-1,3-Dichloropropene	5.00	5.80	5.51	116	110	73.0-127			5.13	20
2,2-Dichloropropane	5.00	4.66	4.67	93.2	93.4	59.0-135			0.214	20
Di-isopropyl ether	5.00	4.60	4.56	92.0	91.2	60.0-136			0.873	20
Ethylbenzene	5.00	5.21	5.07	104	101	74.0-126			2.72	20
Ethyl ether	5.00	4.72	4.91	94.4	98.2	64.0-137			3.95	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3763456-1 02/22/22 09:53 • (LCSD) R3763456-2 02/22/22 10:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	5.58	5.43	112	109	57.0-150			2.72	20
Iodomethane	25.0	26.3	27.0	105	108	74.0-134			2.63	20
Isopropylbenzene	5.00	5.06	5.03	101	101	72.0-127			0.595	20
p-Isopropyltoluene	5.00	4.93	5.16	98.6	103	72.0-133			4.56	20
2-Butanone (MEK)	25.0	23.1	22.0	92.4	88.0	30.0-160			4.88	24
Methylene Chloride	5.00	4.58	4.71	91.6	94.2	68.0-123			2.80	20
4-Methyl-2-pentanone (MIBK)	25.0	26.8	24.6	107	98.4	56.0-143			8.56	20
Methyl tert-butyl ether	5.00	5.13	5.07	103	101	66.0-132			1.18	20
Naphthalene	5.00	4.16	4.39	83.2	87.8	59.0-130			5.38	20
n-Propylbenzene	5.00	4.44	4.75	88.8	95.0	74.0-126			6.75	20
Styrene	5.00	5.07	4.94	101	98.8	72.0-127			2.60	20
1,1,1,2-Tetrachloroethane	5.00	5.20	5.26	104	105	74.0-129			1.15	20
1,1,2,2-Tetrachloroethane	5.00	4.06	4.27	81.2	85.4	68.0-128			5.04	20
Tetrachloroethene	5.00	5.06	5.18	101	104	70.0-136			2.34	20
Tetrahydrofuran	5.00	5.60	5.57	112	111	37.0-146			0.537	24
Toluene	5.00	4.54	4.39	90.8	87.8	75.0-121			3.36	20
1,1,2-Trichlorotrifluoroethane	5.00	4.69	4.92	93.8	98.4	61.0-139			4.79	20
1,2,3-Trichlorobenzene	5.00	4.41	4.78	88.2	95.6	59.0-139			8.05	20
1,2,4-Trichlorobenzene	5.00	4.89	4.98	97.8	99.6	62.0-137			1.82	20
1,1,1-Trichloroethane	5.00	5.07	5.00	101	100	69.0-126			1.39	20
1,1,2-Trichloroethane	5.00	4.93	4.77	98.6	95.4	78.0-123			3.30	20
Trichloroethene	5.00	5.06	4.93	101	98.6	76.0-126			2.60	20
Trichlorofluoromethane	5.00	3.92	4.48	78.4	89.6	61.0-142			13.3	20
1,2,3-Trichloropropane	5.00	5.04	5.31	101	106	67.0-129			5.22	20
1,2,3-Trimethylbenzene	5.00	4.67	4.91	93.4	98.2	74.0-124			5.01	20
1,2,4-Trimethylbenzene	5.00	4.73	5.05	94.6	101	70.0-126			6.54	20
1,3,5-Trimethylbenzene	5.00	4.63	4.95	92.6	99.0	73.0-127			6.68	20
Vinyl chloride	5.00	4.25	4.26	85.0	85.2	63.0-134			0.235	20
Xylenes, Total	15.0	15.3	14.8	102	98.7	72.0-127			3.32	20
Allyl chloride	25.0	25.8	26.4	103	106	70.0-131			2.30	20
(S) Toluene-d8				98.9	97.9	75.0-131				
(S) 4-Bromofluorobenzene				102	96.6	67.0-138				
(S) 1,2-Dichloroethane-d4				107	108	70.0-130				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3763683-3 02/25/22 02:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3763683-3 02/25/22 02:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	97.9			75.0-131
(S) 4-Bromofluorobenzene	94.7			67.0-138
(S) 1,2-Dichloroethane-d4	113			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3763683-1 02/25/22 01:14 • (LCSD) R3763683-2 02/25/22 01:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	40.6	62.9	162	252	10.0-160	J4	J3 J4	43.1	31
Acrylonitrile	25.0	21.8	28.2	87.2	113	45.0-153		J3	25.6	22
Benzene	5.00	4.51	4.53	90.2	90.6	70.0-123			0.442	20
Bromobenzene	5.00	5.15	5.22	103	104	73.0-121			1.35	20
Bromodichloromethane	5.00	5.51	5.54	110	111	73.0-121			0.543	20
Bromoform	5.00	5.61	6.10	112	122	64.0-132			8.37	20
Bromomethane	5.00	4.60	4.84	92.0	96.8	56.0-147			5.08	20
n-Butylbenzene	5.00	4.56	4.52	91.2	90.4	68.0-135			0.881	20
sec-Butylbenzene	5.00	4.77	4.77	95.4	95.4	74.0-130			0.000	20
tert-Butylbenzene	5.00	5.00	4.97	100	99.4	75.0-127			0.602	20
Carbon tetrachloride	5.00	5.78	5.93	116	119	66.0-128			2.56	20
Chlorobenzene	5.00	4.97	5.10	99.4	102	76.0-128			2.58	20
Chlorodibromomethane	5.00	5.52	5.71	110	114	74.0-127			3.38	20
Chloroethane	5.00	4.55	4.58	91.0	91.6	61.0-134			0.657	20
Chloroform	5.00	5.37	5.44	107	109	72.0-123			1.30	20
Chloromethane	5.00	4.37	4.33	87.4	86.6	51.0-138			0.920	20
2-Chlorotoluene	5.00	5.06	4.82	101	96.4	75.0-124			4.86	20
4-Chlorotoluene	5.00	5.10	5.13	102	103	75.0-124			0.587	20
1,2-Dibromo-3-Chloropropane	5.00	4.36	5.01	87.2	100	59.0-130			13.9	20
1,2-Dibromoethane	5.00	4.93	5.05	98.6	101	74.0-128			2.40	20
Dibromomethane	5.00	5.05	5.31	101	106	75.0-122			5.02	20
1,2-Dichlorobenzene	5.00	4.90	5.07	98.0	101	76.0-124			3.41	20
1,3-Dichlorobenzene	5.00	5.09	5.32	102	106	76.0-125			4.42	20
1,4-Dichlorobenzene	5.00	4.97	5.18	99.4	104	77.0-121			4.14	20
trans-1,4-Dichloro-2-butene	5.00	5.04	5.16	101	103	45.0-143			2.35	20
Dichlorodifluoromethane	5.00	5.10	4.99	102	99.8	43.0-156			2.18	20
1,1-Dichloroethane	5.00	5.21	5.04	104	101	70.0-127			3.32	20
1,2-Dichloroethane	5.00	5.80	5.94	116	119	65.0-131			2.39	20
1,1-Dichloroethene	5.00	5.05	5.00	101	100	65.0-131			0.995	20
cis-1,2-Dichloroethene	5.00	5.45	5.45	109	109	73.0-125			0.000	20
trans-1,2-Dichloroethene	5.00	5.10	4.98	102	99.6	71.0-125			2.38	20
1,2-Dichloropropane	5.00	4.83	4.88	96.6	97.6	74.0-125			1.03	20
1,1-Dichloropropene	5.00	4.88	4.86	97.6	97.2	73.0-125			0.411	20
1,3-Dichloropropane	5.00	4.87	4.82	97.4	96.4	80.0-125			1.03	20
cis-1,3-Dichloropropene	5.00	5.10	5.16	102	103	76.0-127			1.17	20
trans-1,3-Dichloropropene	5.00	5.39	5.28	108	106	73.0-127			2.06	20
2,2-Dichloropropane	5.00	4.79	4.88	95.8	97.6	59.0-135			1.86	20
Di-isopropyl ether	5.00	4.92	4.98	98.4	99.6	60.0-136			1.21	20
Ethylbenzene	5.00	4.87	5.23	97.4	105	74.0-126			7.13	20
Ethyl ether	5.00	5.11	5.11	102	102	64.0-137			0.000	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3763683-1 02/25/22 01:14 • (LCSD) R3763683-2 02/25/22 01:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	5.62	5.47	112	109	57.0-150			2.71	20
Iodomethane	25.0	29.0	28.9	116	116	74.0-134			0.345	20
Isopropylbenzene	5.00	5.16	5.25	103	105	72.0-127			1.73	20
p-Isopropyltoluene	5.00	5.19	5.26	104	105	72.0-133			1.34	20
2-Butanone (MEK)	25.0	24.9	25.1	99.6	100	30.0-160			0.800	24
Methylene Chloride	5.00	4.74	4.85	94.8	97.0	68.0-123			2.29	20
4-Methyl-2-pentanone (MIBK)	25.0	26.2	27.8	105	111	56.0-143			5.93	20
Methyl tert-butyl ether	5.00	4.96	5.20	99.2	104	66.0-132			4.72	20
Naphthalene	5.00	4.02	4.22	80.4	84.4	59.0-130			4.85	20
n-Propylbenzene	5.00	4.63	4.74	92.6	94.8	74.0-126			2.35	20
Styrene	5.00	5.17	5.11	103	102	72.0-127			1.17	20
1,1,1,2-Tetrachloroethane	5.00	5.38	5.78	108	116	74.0-129			7.17	20
1,1,2,2-Tetrachloroethane	5.00	3.62	3.85	72.4	77.0	68.0-128			6.16	20
Tetrachloroethene	5.00	5.08	5.09	102	102	70.0-136			0.197	20
Tetrahydrofuran	5.00	5.72	7.51	114	150	37.0-146		J3 J4	27.1	24
Toluene	5.00	4.35	4.46	87.0	89.2	75.0-121			2.50	20
1,1,2-Trichlorotrifluoroethane	5.00	4.86	4.97	97.2	99.4	61.0-139			2.24	20
1,2,3-Trichlorobenzene	5.00	4.28	4.41	85.6	88.2	59.0-139			2.99	20
1,2,4-Trichlorobenzene	5.00	4.89	4.87	97.8	97.4	62.0-137			0.410	20
1,1,1-Trichloroethane	5.00	5.50	5.68	110	114	69.0-126			3.22	20
1,1,2-Trichloroethane	5.00	4.78	4.70	95.6	94.0	78.0-123			1.69	20
Trichloroethene	5.00	5.67	5.61	113	112	76.0-126			1.06	20
Trichlorofluoromethane	5.00	5.49	5.32	110	106	61.0-142			3.15	20
1,2,3-Trichloropropane	5.00	5.20	5.45	104	109	67.0-129			4.69	20
1,2,3-Trimethylbenzene	5.00	4.98	5.10	99.6	102	74.0-124			2.38	20
1,2,4-Trimethylbenzene	5.00	5.15	5.28	103	106	70.0-126			2.49	20
1,3,5-Trimethylbenzene	5.00	5.04	5.08	101	102	73.0-127			0.791	20
Vinyl chloride	5.00	4.14	4.15	82.8	83.0	63.0-134			0.241	20
Xylenes, Total	15.0	14.9	15.4	99.3	103	72.0-127			3.30	20
Allyl chloride	25.0	26.5	26.7	106	107	70.0-131			0.752	20
(S) Toluene-d8				97.0	95.5	75.0-131				
(S) 4-Bromofluorobenzene				95.1	101	67.0-138				
(S) 1,2-Dichloroethane-d4				114	119	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

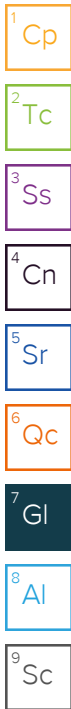
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
C7	The initial calibration verification standard (SSCV) associated with this data responded high.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

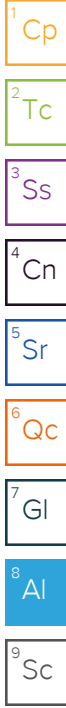
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address:
PES Environmental, Inc.- WA
 2101 Fourth Ave., Suite 1310
 Seattle, WA 98121

Billing Information:
 Attn: Accounts Payable
 2101 4th Avenue, Suite 1310
 Seattle, WA 98121

Pres
 Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody
 constitutes acknowledgment and acceptance of the
 Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Sample # **L1463246**
G210

Acctnum: **PESENVSWA**

Template: **T203400**

Prelogin: **P903823**

PM: **546 - Jared Starkey**

PB: **AP 2-8-22**

Shipped Via:

Remarks Sample # (lab only)

Report to:
Brian O'Neal/Bill Haldeman

Email To:
Shannon.McKernan@nv5.com;brian.oneal@nv5

Project Description:
American Linen

City/State
 Collected: **Seattle, WA**

Please Circle:
 PT MT CT ET

Phone: **206-529-3980**

Client Project #
1413.001.02.501.05

Lab Project #
PESENVSWA-ALP

Collected by (print):
Hannah Cohen

Site/Facility ID #

P.O. #
443018-1413001.05.601

Collected by (signature):

 Immediately Packed on Ice N Y

Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day

Quote #
 Date Results Needed
standard TAT

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Contrs	ALK 125mlHDPE-NoPres	FEG, MNG 250mlHDPE-HNO3	FEG, MNG 250mlHDPE-HNO3	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	SULFATE 125mlHDPE-NoPres	TOC 250mlHDPE-HCl	V8260ULLC 40mlAmb-HCl
MW108-021522	Grab	GW	45	2/15/22	1005	8	X	X			X		X	X
MW111-021522		GW	75		1115	8	X	X			X		X	X
MW126-021522		GW	90		1230	8	X	X			X		X	X
MW-9-021522		GW	17.5		1330	11	X	X	X	X			X	X
MW120-021522		GW	45		1435	8	X	X			X		X	X
MW-183-021622		GW	46	2/16/22	930	3								X
MW-182-021622		GW	31.5		1020	3								X
MW-181-021622		GW	17.5		1105	3								X
MW-184-021622		GW	66		1130	3								X
MW-169-021622		GW	23		1535	3								X

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:
 pH _____ Temp _____
 Flow _____ Other _____
 Samples returned via:
 ___ UPS ___ FedEx ___ Courier
 Tracking # **5528 5946 7727**

Sample Receipt Checklist
 COC Seal Present/Intact: Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 If Applicable
 VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature)

 Relinquished by: (Signature)

 Relinquished by: (Signature)

Date: **2/16/22** Time: **1645**
 Date: **2/16/22** Time: **1648**
 Date: **2/17/22** Time: **1450**

Received by: (Signature)

 Received by: (Signature)

 Received for lab by: (Signature)

Trip Blank Received: Yes No
 HCl / MeOH
 TBR
 Temp: _____ °C Bottles Received: **NSA 2.1.4.02.1.58**
 Date: _____ Time: **2/18/22 0930**

If preservation required by Login: Date/Time
 Hold: _____ Condition: **NCF / OK**

Company Name/Address:
PES Environmental, Inc.- WA
 2101 Fourth Ave., Suite 1310
 Seattle, WA 98121

Billing Information:
 Attn: Accounts Payable
 2101 4th Avenue, Suite 1310
 Seattle, WA 98121

Pres
 Chk

Report to:
Brian O'Neal/Bill Haldeman

Email To:
 Shannon.McKernan@nv5.com;brian.oneal@nv5

Project Description:
American Linen

City/State
 Collected: **Seattle, WA**

Please Circle:
 PT MT CT ET

Phone: **206-529-3980**

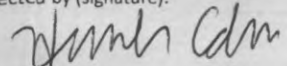
Client Project #
1413.001.02.501.05

Lab Project #
PESENVSWA-ALP

Collected by (print):
Hannah Cohen

Site/Facility ID #

P.O. #
443018-1413001.05.601

Collected by (signature):

 Immediately
 Packed on Ice N Y

Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day

Quote #
 Date Results Needed
Standard TAT

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK 125mlHDPE-NoPres	FEG, MNG 250mlHDPE-HNO3	FEG, MNG 250mlHDPE-HNO3	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	SULFATE 125mlHDPE-NoPres	TOC 250mlHDPE-HCl	V8260ULLC 40mlAmb-HCl
MW108-021522	Grab	GW	45	2/15/22	1005	8	X	X			X	X	X	X
MW111-021522		GW	75		1115	8	X	X			X	X	X	X
MW126-021522		GW	90		1230	8	X	X			X	X	X	X
MW-9-021522		GW	17.5		1330	11	X	X	X		X	X	X	X
MW120-021522		GW	45		1435	8	X	X			X	X	X	X
MW-183-021622		GW	46	2/16/22	930	3							X	
MW-182-021622		GW	31.5		1020	3							X	
MW-181-021622		GW	17.5		1105	3							X	
MW-184-021622		GW	66		1130	3							X	
MW-169-021622		GW	23		1535	3							X	

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace
 PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Lab # **L1463246**

G210

Acctnum: **PESENVSWA**
 Template: **T203400**
 Prelogin: **P903823**
 PM: **546 - Jared Starkey**
 PB: **AP 2-8-22**

Shipped Via:

Remarks | Sample # (lab only)

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:
Updates per sem 2/23/22

Samples returned via:
 UPS FedEx Courier

Tracking # **5528 5946 7727**

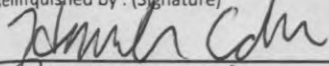
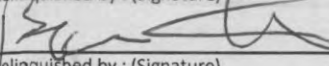
pH _____ Temp _____
 Flow _____ Other _____

Sample Receipt Checklist

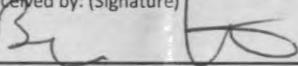
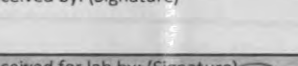
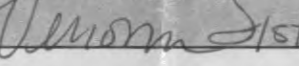
COC Seal Present/Intact: Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N

If Applicable

VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature)

 Relinquished by: (Signature)

 Relinquished by: (Signature)

Date: **2/16/22** Time: **1645**
 Date: **2/16/22** Time: **1648**
 Date: **2/17/22** Time: **1450**

Received by: (Signature)

 Received by: (Signature)

 Received for lab by: (Signature)


Trip Blank Received: Yes No
 HCl / MeOH
 TBR

Temp: _____ °C Bottles Received: **NSA 21.4.02.1 58**

Date: _____ Time: **2/18/22 0930**

If preservation required by Login: Date/Time

Hold: _____ Condition: **NCF / OK**

PES Environmental, Inc.- WA

Sample Delivery Group: L1463646
Samples Received: 02/19/2022
Project Number: 1413.001.02.501.05
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:



Jared Starkey
Project Manager

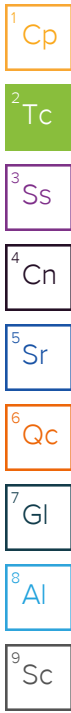
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	6
Sr: Sample Results	7
MW-964-021722 L1463646-01	7
MW-170-021722 L1463646-02	9
MW-179-021722 L1463646-03	11
MW-171-021722 L1463646-04	13
MW-172-021722 L1463646-05	15
MW-178-021722 L1463646-06	17
MW-177-021722 L1463646-07	19
MW-173-021722 L1463646-08	21
MW-180-021722 L1463646-09	23
MW-174-021722 L1463646-10	25
MW106-021822 L1463646-11	27
MW-142-021822 L1463646-12	29
MW-147-021822 L1463646-13	31
MW-146-021822 L1463646-14	33
MW-154-021822 L1463646-15	35
TB-021822 L1463646-16	37
Qc: Quality Control Summary	39
Wet Chemistry by Method 2320 B-2011	39
Wet Chemistry by Method 9056A	40
Wet Chemistry by Method 9060A	41
Metals (ICPMS) by Method 6020B	42
Volatile Organic Compounds (GC) by Method RSK175	43
Volatile Organic Compounds (GC/MS) by Method 8260D	47
Gl: Glossary of Terms	63
Al: Accreditations & Locations	64
Sc: Sample Chain of Custody	65

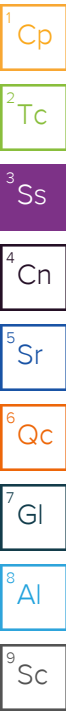


SAMPLE SUMMARY

MW-964-021722 L1463646-01 GW

Collected by HRC Collected date/time 02/17/22 08:30 Received date/time 02/19/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1821785	1	02/22/22 13:51	02/22/22 13:51	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1823325	100	02/25/22 05:22	02/25/22 05:22	ADM	Mt. Juliet, TN



MW-170-021722 L1463646-02 GW

Collected by HRC Collected date/time 02/17/22 09:40 Received date/time 02/19/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1823325	250	02/25/22 05:41	02/25/22 05:41	ADM	Mt. Juliet, TN

MW-179-021722 L1463646-03 GW

Collected by HRC Collected date/time 02/17/22 10:45 Received date/time 02/19/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1823325	50	02/25/22 06:00	02/25/22 06:00	ADM	Mt. Juliet, TN

MW-171-021722 L1463646-04 GW

Collected by HRC Collected date/time 02/17/22 10:50 Received date/time 02/19/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1821785	100	02/22/22 17:02	02/22/22 17:02	ACG	Mt. Juliet, TN

MW-172-021722 L1463646-05 GW

Collected by HRC Collected date/time 02/17/22 12:15 Received date/time 02/19/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1821785	50	02/22/22 17:21	02/22/22 17:21	ACG	Mt. Juliet, TN

MW-178-021722 L1463646-06 GW

Collected by HRC Collected date/time 02/17/22 12:20 Received date/time 02/19/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1821785	50	02/22/22 17:41	02/22/22 17:41	ACG	Mt. Juliet, TN

MW-177-021722 L1463646-07 GW

Collected by HRC Collected date/time 02/17/22 12:45 Received date/time 02/19/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1821785	200	02/22/22 18:00	02/22/22 18:00	ACG	Mt. Juliet, TN

MW-173-021722 L1463646-08 GW

Collected by HRC Collected date/time 02/17/22 13:30 Received date/time 02/19/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1821785	1	02/22/22 14:10	02/22/22 14:10	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1823325	1	02/25/22 05:03	02/25/22 05:03	ADM	Mt. Juliet, TN

SAMPLE SUMMARY

MW-180-021722 L1463646-09 GW

Collected by HRC Collected date/time 02/17/22 13:40 Received date/time 02/19/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1821785	5	02/22/22 18:19	02/22/22 18:19	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1823325	50	02/25/22 06:19	02/25/22 06:19	ADM	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

MW-174-021722 L1463646-10 GW

Collected by HRC Collected date/time 02/17/22 14:15 Received date/time 02/19/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1821785	1	02/22/22 14:29	02/22/22 14:29	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1823325	5	02/25/22 06:37	02/25/22 06:37	ADM	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

MW106-021822 L1463646-11 GW

Collected by HRC Collected date/time 02/18/22 10:20 Received date/time 02/19/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1822229	1	02/23/22 12:35	02/23/22 12:35	JAR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1823081	1	02/24/22 14:06	02/24/22 14:06	RAF	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1821754	1	02/22/22 19:03	02/22/22 19:03	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1821051	1	02/22/22 00:43	02/22/22 15:54	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1821928	1	02/23/22 11:13	02/23/22 11:13	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1822900	1	02/24/22 08:00	02/24/22 08:00	ADM	Mt. Juliet, TN

7 Gl

8 Al

9 Sc

MW-142-021822 L1463646-12 GW

Collected by HRC Collected date/time 02/18/22 11:00 Received date/time 02/19/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1822229	1	02/23/22 12:38	02/23/22 12:38	JAR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1823081	1	02/24/22 14:20	02/24/22 14:20	RAF	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1821754	1	02/22/22 19:24	02/22/22 19:24	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1821051	1	02/22/22 00:43	02/22/22 15:57	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1821928	1	02/23/22 11:23	02/23/22 11:23	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1822900	1	02/24/22 08:20	02/24/22 08:20	ADM	Mt. Juliet, TN

MW-147-021822 L1463646-13 GW

Collected by HRC Collected date/time 02/18/22 11:50 Received date/time 02/19/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1822229	1	02/23/22 12:42	02/23/22 12:42	JAR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1823081	1	02/24/22 14:35	02/24/22 14:35	RAF	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1821754	1	02/22/22 20:08	02/22/22 20:08	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1821051	1	02/22/22 00:43	02/22/22 16:00	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1821928	1	02/23/22 11:26	02/23/22 11:26	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1822900	1	02/24/22 08:39	02/24/22 08:39	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1823209	10	02/25/22 06:56	02/25/22 06:56	ADM	Mt. Juliet, TN

MW-146-021822 L1463646-14 GW

Collected by HRC Collected date/time 02/18/22 13:30 Received date/time 02/19/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1822229	1	02/23/22 12:45	02/23/22 12:45	JAR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1823081	1	02/24/22 14:50	02/24/22 14:50	RAF	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1821754	1	02/22/22 20:36	02/22/22 20:36	GJA	Mt. Juliet, TN

SAMPLE SUMMARY

MW-146-021822 L1463646-14 GW

Collected by HRC Collected date/time 02/18/22 13:30 Received date/time 02/19/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG1821051	1	02/22/22 00:43	02/22/22 16:03	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1821931	1	02/23/22 13:52	02/23/22 13:52	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1823209	10	02/25/22 07:15	02/25/22 07:15	ADM	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

MW-154-021822 L1463646-15 GW

Collected by HRC Collected date/time 02/18/22 14:40 Received date/time 02/19/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1822229	1	02/23/22 12:48	02/23/22 12:48	JAR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1823081	1	02/24/22 15:05	02/24/22 15:05	RAF	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1821754	1	02/22/22 20:49	02/22/22 20:49	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1821051	1	02/22/22 00:43	02/22/22 16:07	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1821931	1	02/23/22 14:05	02/23/22 14:05	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1822900	1	02/24/22 08:58	02/24/22 08:58	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1823209	1	02/25/22 07:34	02/25/22 07:34	ADM	Mt. Juliet, TN

TB-021822 L1463646-16 GW

Collected by HRC Collected date/time 02/18/22 15:00 Received date/time 02/19/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1822900	1	02/24/22 07:41	02/24/22 07:41	ADM	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jared Starkey
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	02/22/2022 13:51	WG1821785
Acrylonitrile	U		0.0760	0.500	1	02/22/2022 13:51	WG1821785
Benzene	0.0340	J	0.0160	0.0400	1	02/22/2022 13:51	WG1821785
Bromobenzene	U		0.0420	0.500	1	02/22/2022 13:51	WG1821785
Bromodichloromethane	U		0.0315	0.100	1	02/22/2022 13:51	WG1821785
Bromoform	U		0.239	1.00	1	02/22/2022 13:51	WG1821785
Bromomethane	U		0.148	0.500	1	02/22/2022 13:51	WG1821785
n-Butylbenzene	U		0.153	0.500	1	02/22/2022 13:51	WG1821785
sec-Butylbenzene	U		0.101	0.500	1	02/22/2022 13:51	WG1821785
tert-Butylbenzene	U		0.0620	0.200	1	02/22/2022 13:51	WG1821785
Carbon tetrachloride	U		0.0432	0.200	1	02/22/2022 13:51	WG1821785
Chlorobenzene	U		0.0229	0.100	1	02/22/2022 13:51	WG1821785
Chlorodibromomethane	U		0.0180	0.100	1	02/22/2022 13:51	WG1821785
Chloroethane	0.320		0.0432	0.200	1	02/22/2022 13:51	WG1821785
Chloroform	U		0.0166	0.100	1	02/22/2022 13:51	WG1821785
Chloromethane	U		0.0556	0.500	1	02/22/2022 13:51	WG1821785
2-Chlorotoluene	U		0.0368	0.100	1	02/22/2022 13:51	WG1821785
4-Chlorotoluene	U		0.0452	0.200	1	02/22/2022 13:51	WG1821785
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	02/22/2022 13:51	WG1821785
1,2-Dibromoethane	U		0.0210	0.100	1	02/22/2022 13:51	WG1821785
Dibromomethane	U		0.0400	0.200	1	02/22/2022 13:51	WG1821785
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/22/2022 13:51	WG1821785
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/22/2022 13:51	WG1821785
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/22/2022 13:51	WG1821785
Dichlorodifluoromethane	U		0.0327	0.100	1	02/22/2022 13:51	WG1821785
1,1-Dichloroethane	0.148		0.0230	0.100	1	02/22/2022 13:51	WG1821785
1,2-Dichloroethane	U		0.0190	0.100	1	02/22/2022 13:51	WG1821785
1,1-Dichloroethene	41.5		0.0200	0.100	1	02/22/2022 13:51	WG1821785
cis-1,2-Dichloroethene	671		2.76	10.0	100	02/25/2022 05:22	WG1823325
trans-1,2-Dichloroethene	25.3		0.0572	0.200	1	02/22/2022 13:51	WG1821785
1,2-Dichloropropane	U		0.0508	0.200	1	02/22/2022 13:51	WG1821785
1,1-Dichloropropene	U		0.0280	0.100	1	02/22/2022 13:51	WG1821785
1,3-Dichloropropane	U		0.0700	0.200	1	02/22/2022 13:51	WG1821785
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/22/2022 13:51	WG1821785
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/22/2022 13:51	WG1821785
2,2-Dichloropropane	U		0.0317	0.100	1	02/22/2022 13:51	WG1821785
Di-isopropyl ether	U		0.0140	0.0400	1	02/22/2022 13:51	WG1821785
Ethylbenzene	0.0970	J	0.0212	0.100	1	02/22/2022 13:51	WG1821785
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/22/2022 13:51	WG1821785
Isopropylbenzene	U		0.0345	0.100	1	02/22/2022 13:51	WG1821785
p-Isopropyltoluene	U		0.0932	0.200	1	02/22/2022 13:51	WG1821785
2-Butanone (MEK)	U		0.500	1.00	1	02/22/2022 13:51	WG1821785
Methylene Chloride	U		0.265	1.00	1	02/22/2022 13:51	WG1821785
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/22/2022 13:51	WG1821785
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/22/2022 13:51	WG1821785
Naphthalene	U		0.124	0.500	1	02/22/2022 13:51	WG1821785
n-Propylbenzene	U		0.0472	0.200	1	02/22/2022 13:51	WG1821785
Styrene	U		0.109	0.500	1	02/22/2022 13:51	WG1821785
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/22/2022 13:51	WG1821785
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/22/2022 13:51	WG1821785
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/22/2022 13:51	WG1821785
Tetrachloroethene	2750		2.80	10.0	100	02/25/2022 05:22	WG1823325
Toluene	0.273		0.0500	0.200	1	02/22/2022 13:51	WG1821785
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/22/2022 13:51	WG1821785
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/22/2022 13:51	WG1821785
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/22/2022 13:51	WG1821785

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/22/2022 13:51	WG1821785
Trichloroethene	2240		1.60	4.00	100	02/25/2022 05:22	WG1823325
Trichlorofluoromethane	U	<u>C3</u>	0.0200	0.100	1	02/22/2022 13:51	WG1821785
1,2,3-Trichloropropane	U		0.204	0.500	1	02/22/2022 13:51	WG1821785
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/22/2022 13:51	WG1821785
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/22/2022 13:51	WG1821785
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/22/2022 13:51	WG1821785
Vinyl chloride	12.9		0.0273	0.100	1	02/22/2022 13:51	WG1821785
Xylenes, Total	0.212	<u>J</u>	0.191	0.260	1	02/22/2022 13:51	WG1821785
Ethyl Ether	U		0.0170	0.100	1	02/22/2022 13:51	WG1821785
Tetrahydrofuran	U		0.0900	0.500	1	02/22/2022 13:51	WG1821785
Iodomethane	U		0.242	0.500	1	02/22/2022 13:51	WG1821785
Allyl chloride	U		0.580	1.00	1	02/22/2022 13:51	WG1821785
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/22/2022 13:51	WG1821785
(S) Toluene-d8	99.3			75.0-131		02/22/2022 13:51	WG1821785
(S) Toluene-d8	96.7			75.0-131		02/25/2022 05:22	WG1823325
(S) 4-Bromofluorobenzene	102			67.0-138		02/22/2022 13:51	WG1821785
(S) 4-Bromofluorobenzene	97.6			67.0-138		02/25/2022 05:22	WG1823325
(S) 1,2-Dichloroethane-d4	106			70.0-130		02/22/2022 13:51	WG1821785
(S) 1,2-Dichloroethane-d4	121			70.0-130		02/25/2022 05:22	WG1823325

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J3 J4	137	250	250	02/25/2022 05:41	WG1823325
Acrylonitrile	U	J3	19.0	125	250	02/25/2022 05:41	WG1823325
Benzene	U		4.00	10.0	250	02/25/2022 05:41	WG1823325
Bromobenzene	U		10.5	125	250	02/25/2022 05:41	WG1823325
Bromodichloromethane	U		7.88	25.0	250	02/25/2022 05:41	WG1823325
Bromoform	U		59.8	250	250	02/25/2022 05:41	WG1823325
Bromomethane	U		37.0	125	250	02/25/2022 05:41	WG1823325
n-Butylbenzene	U		38.3	125	250	02/25/2022 05:41	WG1823325
sec-Butylbenzene	U		25.3	125	250	02/25/2022 05:41	WG1823325
tert-Butylbenzene	U		15.5	50.0	250	02/25/2022 05:41	WG1823325
Carbon tetrachloride	U		10.8	50.0	250	02/25/2022 05:41	WG1823325
Chlorobenzene	U		5.73	25.0	250	02/25/2022 05:41	WG1823325
Chlorodibromomethane	U		4.50	25.0	250	02/25/2022 05:41	WG1823325
Chloroethane	U		10.8	50.0	250	02/25/2022 05:41	WG1823325
Chloroform	U		4.15	25.0	250	02/25/2022 05:41	WG1823325
Chloromethane	U		13.9	125	250	02/25/2022 05:41	WG1823325
2-Chlorotoluene	U		9.20	25.0	250	02/25/2022 05:41	WG1823325
4-Chlorotoluene	U		11.3	50.0	250	02/25/2022 05:41	WG1823325
1,2-Dibromo-3-Chloropropane	U		51.0	250	250	02/25/2022 05:41	WG1823325
1,2-Dibromoethane	U		5.25	25.0	250	02/25/2022 05:41	WG1823325
Dibromomethane	U		10.0	50.0	250	02/25/2022 05:41	WG1823325
1,2-Dichlorobenzene	U		14.5	50.0	250	02/25/2022 05:41	WG1823325
1,3-Dichlorobenzene	U		17.0	50.0	250	02/25/2022 05:41	WG1823325
1,4-Dichlorobenzene	U		19.7	50.0	250	02/25/2022 05:41	WG1823325
Dichlorodifluoromethane	U		8.18	25.0	250	02/25/2022 05:41	WG1823325
1,1-Dichloroethane	U		5.75	25.0	250	02/25/2022 05:41	WG1823325
1,2-Dichloroethane	U		4.75	25.0	250	02/25/2022 05:41	WG1823325
1,1-Dichloroethene	17.2	J	5.00	25.0	250	02/25/2022 05:41	WG1823325
cis-1,2-Dichloroethene	5120		6.90	25.0	250	02/25/2022 05:41	WG1823325
trans-1,2-Dichloroethene	179		14.3	50.0	250	02/25/2022 05:41	WG1823325
1,2-Dichloropropane	U		12.7	50.0	250	02/25/2022 05:41	WG1823325
1,1-Dichloropropene	U		7.00	25.0	250	02/25/2022 05:41	WG1823325
1,3-Dichloropropane	U		17.5	50.0	250	02/25/2022 05:41	WG1823325
cis-1,3-Dichloropropene	U		6.78	25.0	250	02/25/2022 05:41	WG1823325
trans-1,3-Dichloropropene	U		15.3	50.0	250	02/25/2022 05:41	WG1823325
2,2-Dichloropropane	U		7.93	25.0	250	02/25/2022 05:41	WG1823325
Di-isopropyl ether	U		3.50	10.0	250	02/25/2022 05:41	WG1823325
Ethylbenzene	U		5.30	25.0	250	02/25/2022 05:41	WG1823325
Hexachloro-1,3-butadiene	U		127	250	250	02/25/2022 05:41	WG1823325
Isopropylbenzene	U		8.63	25.0	250	02/25/2022 05:41	WG1823325
p-Isopropyltoluene	U		23.3	50.0	250	02/25/2022 05:41	WG1823325
2-Butanone (MEK)	U		125	250	250	02/25/2022 05:41	WG1823325
Methylene Chloride	U		66.3	250	250	02/25/2022 05:41	WG1823325
4-Methyl-2-pentanone (MIBK)	U		100	250	250	02/25/2022 05:41	WG1823325
Methyl tert-butyl ether	U		2.95	10.0	250	02/25/2022 05:41	WG1823325
Naphthalene	U		31.0	125	250	02/25/2022 05:41	WG1823325
n-Propylbenzene	U		11.8	50.0	250	02/25/2022 05:41	WG1823325
Styrene	U		27.3	125	250	02/25/2022 05:41	WG1823325
1,1,1,2-Tetrachloroethane	U		5.00	25.0	250	02/25/2022 05:41	WG1823325
1,1,2,2-Tetrachloroethane	U	C3	3.90	25.0	250	02/25/2022 05:41	WG1823325
1,1,2-Trichlorotrifluoroethane	U		6.75	25.0	250	02/25/2022 05:41	WG1823325
Tetrachloroethene	42.0		7.00	25.0	250	02/25/2022 05:41	WG1823325
Toluene	U		12.5	50.0	250	02/25/2022 05:41	WG1823325
1,2,3-Trichlorobenzene	U		6.25	125	250	02/25/2022 05:41	WG1823325
1,2,4-Trichlorobenzene	U		48.3	125	250	02/25/2022 05:41	WG1823325
1,1,1-Trichloroethane	U		2.75	25.0	250	02/25/2022 05:41	WG1823325

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		8.83	25.0	250	02/25/2022 05:41	WG1823325
Trichloroethene	16.0		4.00	10.0	250	02/25/2022 05:41	WG1823325
Trichlorofluoromethane	U		5.00	25.0	250	02/25/2022 05:41	WG1823325
1,2,3-Trichloropropane	U		51.0	125	250	02/25/2022 05:41	WG1823325
1,2,4-Trimethylbenzene	U		11.6	50.0	250	02/25/2022 05:41	WG1823325
1,2,3-Trimethylbenzene	U		11.5	50.0	250	02/25/2022 05:41	WG1823325
1,3,5-Trimethylbenzene	U		10.8	50.0	250	02/25/2022 05:41	WG1823325
Vinyl chloride	10300		6.82	25.0	250	02/25/2022 05:41	WG1823325
Xylenes, Total	U		47.8	65.0	250	02/25/2022 05:41	WG1823325
Ethyl Ether	U		4.25	25.0	250	02/25/2022 05:41	WG1823325
Tetrahydrofuran	U	J3 J4	22.5	125	250	02/25/2022 05:41	WG1823325
Iodomethane	U		60.5	125	250	02/25/2022 05:41	WG1823325
Allyl chloride	U		145	250	250	02/25/2022 05:41	WG1823325
Trans-1,4-Dichloro-2-butene	U		14.0	50.0	250	02/25/2022 05:41	WG1823325
(S) Toluene-d8	96.3			75.0-131		02/25/2022 05:41	WG1823325
(S) 4-Bromofluorobenzene	96.4			67.0-138		02/25/2022 05:41	WG1823325
(S) 1,2-Dichloroethane-d4	119			70.0-130		02/25/2022 05:41	WG1823325

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J3 J4	27.4	50.0	50	02/25/2022 06:00	WG1823325
Acrylonitrile	U	J3	3.80	25.0	50	02/25/2022 06:00	WG1823325
Benzene	U		0.800	2.00	50	02/25/2022 06:00	WG1823325
Bromobenzene	U		2.10	25.0	50	02/25/2022 06:00	WG1823325
Bromodichloromethane	U		1.58	5.00	50	02/25/2022 06:00	WG1823325
Bromoform	U		12.0	50.0	50	02/25/2022 06:00	WG1823325
Bromomethane	U		7.40	25.0	50	02/25/2022 06:00	WG1823325
n-Butylbenzene	U		7.65	25.0	50	02/25/2022 06:00	WG1823325
sec-Butylbenzene	U		5.05	25.0	50	02/25/2022 06:00	WG1823325
tert-Butylbenzene	U		3.10	10.0	50	02/25/2022 06:00	WG1823325
Carbon tetrachloride	U		2.16	10.0	50	02/25/2022 06:00	WG1823325
Chlorobenzene	U		1.15	5.00	50	02/25/2022 06:00	WG1823325
Chlorodibromomethane	U		0.900	5.00	50	02/25/2022 06:00	WG1823325
Chloroethane	41.8		2.16	10.0	50	02/25/2022 06:00	WG1823325
Chloroform	U		0.830	5.00	50	02/25/2022 06:00	WG1823325
Chloromethane	U		2.78	25.0	50	02/25/2022 06:00	WG1823325
2-Chlorotoluene	U		1.84	5.00	50	02/25/2022 06:00	WG1823325
4-Chlorotoluene	U		2.26	10.0	50	02/25/2022 06:00	WG1823325
1,2-Dibromo-3-Chloropropane	U		10.2	50.0	50	02/25/2022 06:00	WG1823325
1,2-Dibromoethane	U		1.05	5.00	50	02/25/2022 06:00	WG1823325
Dibromomethane	U		2.00	10.0	50	02/25/2022 06:00	WG1823325
1,2-Dichlorobenzene	U		2.90	10.0	50	02/25/2022 06:00	WG1823325
1,3-Dichlorobenzene	U		3.40	10.0	50	02/25/2022 06:00	WG1823325
1,4-Dichlorobenzene	U		3.94	10.0	50	02/25/2022 06:00	WG1823325
Dichlorodifluoromethane	U		1.64	5.00	50	02/25/2022 06:00	WG1823325
1,1-Dichloroethane	U		1.15	5.00	50	02/25/2022 06:00	WG1823325
1,2-Dichloroethane	U		0.950	5.00	50	02/25/2022 06:00	WG1823325
1,1-Dichloroethene	3.00	J	1.00	5.00	50	02/25/2022 06:00	WG1823325
cis-1,2-Dichloroethene	1400		1.38	5.00	50	02/25/2022 06:00	WG1823325
trans-1,2-Dichloroethene	10.2		2.86	10.0	50	02/25/2022 06:00	WG1823325
1,2-Dichloropropane	U		2.54	10.0	50	02/25/2022 06:00	WG1823325
1,1-Dichloropropene	U		1.40	5.00	50	02/25/2022 06:00	WG1823325
1,3-Dichloropropane	U		3.50	10.0	50	02/25/2022 06:00	WG1823325
cis-1,3-Dichloropropene	U		1.36	5.00	50	02/25/2022 06:00	WG1823325
trans-1,3-Dichloropropene	U		3.06	10.0	50	02/25/2022 06:00	WG1823325
2,2-Dichloropropane	U		1.59	5.00	50	02/25/2022 06:00	WG1823325
Di-isopropyl ether	U		0.700	2.00	50	02/25/2022 06:00	WG1823325
Ethylbenzene	U		1.06	5.00	50	02/25/2022 06:00	WG1823325
Hexachloro-1,3-butadiene	U		25.4	50.0	50	02/25/2022 06:00	WG1823325
Isopropylbenzene	U		1.73	5.00	50	02/25/2022 06:00	WG1823325
p-Isopropyltoluene	U		4.66	10.0	50	02/25/2022 06:00	WG1823325
2-Butanone (MEK)	U		25.0	50.0	50	02/25/2022 06:00	WG1823325
Methylene Chloride	U		13.3	50.0	50	02/25/2022 06:00	WG1823325
4-Methyl-2-pentanone (MIBK)	U		20.0	50.0	50	02/25/2022 06:00	WG1823325
Methyl tert-butyl ether	U		0.590	2.00	50	02/25/2022 06:00	WG1823325
Naphthalene	U		6.20	25.0	50	02/25/2022 06:00	WG1823325
n-Propylbenzene	U		2.36	10.0	50	02/25/2022 06:00	WG1823325
Styrene	U		5.45	25.0	50	02/25/2022 06:00	WG1823325
1,1,1,2-Tetrachloroethane	U		1.00	5.00	50	02/25/2022 06:00	WG1823325
1,1,2,2-Tetrachloroethane	U	C3	0.780	5.00	50	02/25/2022 06:00	WG1823325
1,1,2-Trichlorotrifluoroethane	U		1.35	5.00	50	02/25/2022 06:00	WG1823325
Tetrachloroethene	15.9		1.40	5.00	50	02/25/2022 06:00	WG1823325
Toluene	U		2.50	10.0	50	02/25/2022 06:00	WG1823325
1,2,3-Trichlorobenzene	U		1.25	25.0	50	02/25/2022 06:00	WG1823325
1,2,4-Trichlorobenzene	U		9.65	25.0	50	02/25/2022 06:00	WG1823325
1,1,1-Trichloroethane	U		0.550	5.00	50	02/25/2022 06:00	WG1823325

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		1.77	5.00	50	02/25/2022 06:00	WG1823325
Trichloroethene	12.6		0.800	2.00	50	02/25/2022 06:00	WG1823325
Trichlorofluoromethane	U		1.00	5.00	50	02/25/2022 06:00	WG1823325
1,2,3-Trichloropropane	U		10.2	25.0	50	02/25/2022 06:00	WG1823325
1,2,4-Trimethylbenzene	U		2.32	10.0	50	02/25/2022 06:00	WG1823325
1,2,3-Trimethylbenzene	U		2.30	10.0	50	02/25/2022 06:00	WG1823325
1,3,5-Trimethylbenzene	U		2.16	10.0	50	02/25/2022 06:00	WG1823325
Vinyl chloride	1600		1.36	5.00	50	02/25/2022 06:00	WG1823325
Xylenes, Total	U		9.55	13.0	50	02/25/2022 06:00	WG1823325
Ethyl Ether	U		0.850	5.00	50	02/25/2022 06:00	WG1823325
Tetrahydrofuran	U	J3 J4	4.50	25.0	50	02/25/2022 06:00	WG1823325
Iodomethane	U		12.1	25.0	50	02/25/2022 06:00	WG1823325
Allyl chloride	U		29.0	50.0	50	02/25/2022 06:00	WG1823325
Trans-1,4-Dichloro-2-butene	U		2.80	10.0	50	02/25/2022 06:00	WG1823325
(S) Toluene-d8	102			75.0-131		02/25/2022 06:00	WG1823325
(S) 4-Bromofluorobenzene	93.9			67.0-138		02/25/2022 06:00	WG1823325
(S) 1,2-Dichloroethane-d4	118			70.0-130		02/25/2022 06:00	WG1823325

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	54.8	100	100	02/22/2022 17:02	WG1821785
Acrylonitrile	U		7.60	50.0	100	02/22/2022 17:02	WG1821785
Benzene	U		1.60	4.00	100	02/22/2022 17:02	WG1821785
Bromobenzene	U		4.20	50.0	100	02/22/2022 17:02	WG1821785
Bromodichloromethane	U		3.15	10.0	100	02/22/2022 17:02	WG1821785
Bromoform	U		23.9	100	100	02/22/2022 17:02	WG1821785
Bromomethane	U		14.8	50.0	100	02/22/2022 17:02	WG1821785
n-Butylbenzene	U		15.3	50.0	100	02/22/2022 17:02	WG1821785
sec-Butylbenzene	U		10.1	50.0	100	02/22/2022 17:02	WG1821785
tert-Butylbenzene	U		6.20	20.0	100	02/22/2022 17:02	WG1821785
Carbon tetrachloride	U		4.32	20.0	100	02/22/2022 17:02	WG1821785
Chlorobenzene	U		2.29	10.0	100	02/22/2022 17:02	WG1821785
Chlorodibromomethane	U		1.80	10.0	100	02/22/2022 17:02	WG1821785
Chloroethane	U		4.32	20.0	100	02/22/2022 17:02	WG1821785
Chloroform	U		1.66	10.0	100	02/22/2022 17:02	WG1821785
Chloromethane	U		5.56	50.0	100	02/22/2022 17:02	WG1821785
2-Chlorotoluene	U		3.68	10.0	100	02/22/2022 17:02	WG1821785
4-Chlorotoluene	U		4.52	20.0	100	02/22/2022 17:02	WG1821785
1,2-Dibromo-3-Chloropropane	U		20.4	100	100	02/22/2022 17:02	WG1821785
1,2-Dibromoethane	U		2.10	10.0	100	02/22/2022 17:02	WG1821785
Dibromomethane	U		4.00	20.0	100	02/22/2022 17:02	WG1821785
1,2-Dichlorobenzene	U		5.80	20.0	100	02/22/2022 17:02	WG1821785
1,3-Dichlorobenzene	U		6.80	20.0	100	02/22/2022 17:02	WG1821785
1,4-Dichlorobenzene	U		7.88	20.0	100	02/22/2022 17:02	WG1821785
Dichlorodifluoromethane	U		3.27	10.0	100	02/22/2022 17:02	WG1821785
1,1-Dichloroethane	U		2.30	10.0	100	02/22/2022 17:02	WG1821785
1,2-Dichloroethane	U		1.90	10.0	100	02/22/2022 17:02	WG1821785
1,1-Dichloroethene	30.2		2.00	10.0	100	02/22/2022 17:02	WG1821785
cis-1,2-Dichloroethene	3160		2.76	10.0	100	02/22/2022 17:02	WG1821785
trans-1,2-Dichloroethene	7.20	J	5.72	20.0	100	02/22/2022 17:02	WG1821785
1,2-Dichloropropane	U		5.08	20.0	100	02/22/2022 17:02	WG1821785
1,1-Dichloropropene	U		2.80	10.0	100	02/22/2022 17:02	WG1821785
1,3-Dichloropropane	U		7.00	20.0	100	02/22/2022 17:02	WG1821785
cis-1,3-Dichloropropene	U		2.71	10.0	100	02/22/2022 17:02	WG1821785
trans-1,3-Dichloropropene	U		6.12	20.0	100	02/22/2022 17:02	WG1821785
2,2-Dichloropropane	U		3.17	10.0	100	02/22/2022 17:02	WG1821785
Di-isopropyl ether	U		1.40	4.00	100	02/22/2022 17:02	WG1821785
Ethylbenzene	U		2.12	10.0	100	02/22/2022 17:02	WG1821785
Hexachloro-1,3-butadiene	U		50.8	100	100	02/22/2022 17:02	WG1821785
Isopropylbenzene	U		3.45	10.0	100	02/22/2022 17:02	WG1821785
p-Isopropyltoluene	U		9.32	20.0	100	02/22/2022 17:02	WG1821785
2-Butanone (MEK)	U		50.0	100	100	02/22/2022 17:02	WG1821785
Methylene Chloride	U		26.5	100	100	02/22/2022 17:02	WG1821785
4-Methyl-2-pentanone (MIBK)	U		40.0	100	100	02/22/2022 17:02	WG1821785
Methyl tert-butyl ether	U		1.18	4.00	100	02/22/2022 17:02	WG1821785
Naphthalene	U		12.4	50.0	100	02/22/2022 17:02	WG1821785
n-Propylbenzene	U		4.72	20.0	100	02/22/2022 17:02	WG1821785
Styrene	U		10.9	50.0	100	02/22/2022 17:02	WG1821785
1,1,1,2-Tetrachloroethane	U		2.00	10.0	100	02/22/2022 17:02	WG1821785
1,1,2,2-Tetrachloroethane	U		1.56	10.0	100	02/22/2022 17:02	WG1821785
1,1,2-Trichlorotrifluoroethane	U		2.70	10.0	100	02/22/2022 17:02	WG1821785
Tetrachloroethene	26.5		2.80	10.0	100	02/22/2022 17:02	WG1821785
Toluene	U		5.00	20.0	100	02/22/2022 17:02	WG1821785
1,2,3-Trichlorobenzene	U		2.50	50.0	100	02/22/2022 17:02	WG1821785
1,2,4-Trichlorobenzene	U		19.3	50.0	100	02/22/2022 17:02	WG1821785
1,1,1-Trichloroethane	U		1.10	10.0	100	02/22/2022 17:02	WG1821785

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		3.53	10.0	100	02/22/2022 17:02	WG1821785
Trichloroethene	8.40		1.60	4.00	100	02/22/2022 17:02	WG1821785
Trichlorofluoromethane	U	<u>C3</u>	2.00	10.0	100	02/22/2022 17:02	WG1821785
1,2,3-Trichloropropane	U		20.4	50.0	100	02/22/2022 17:02	WG1821785
1,2,4-Trimethylbenzene	U		4.64	20.0	100	02/22/2022 17:02	WG1821785
1,2,3-Trimethylbenzene	U		4.60	20.0	100	02/22/2022 17:02	WG1821785
1,3,5-Trimethylbenzene	U		4.32	20.0	100	02/22/2022 17:02	WG1821785
Vinyl chloride	1300		2.73	10.0	100	02/22/2022 17:02	WG1821785
Xylenes, Total	U		19.1	26.0	100	02/22/2022 17:02	WG1821785
Ethyl Ether	U		1.70	10.0	100	02/22/2022 17:02	WG1821785
Tetrahydrofuran	U		9.00	50.0	100	02/22/2022 17:02	WG1821785
Iodomethane	U		24.2	50.0	100	02/22/2022 17:02	WG1821785
Allyl chloride	U		58.0	100	100	02/22/2022 17:02	WG1821785
Trans-1,4-Dichloro-2-butene	U		5.60	20.0	100	02/22/2022 17:02	WG1821785
(S) Toluene-d8	103			75.0-131		02/22/2022 17:02	WG1821785
(S) 4-Bromofluorobenzene	97.8			67.0-138		02/22/2022 17:02	WG1821785
(S) 1,2-Dichloroethane-d4	111			70.0-130		02/22/2022 17:02	WG1821785

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	27.4	50.0	50	02/22/2022 17:21	WG1821785
Acrylonitrile	U		3.80	25.0	50	02/22/2022 17:21	WG1821785
Benzene	U		0.800	2.00	50	02/22/2022 17:21	WG1821785
Bromobenzene	U		2.10	25.0	50	02/22/2022 17:21	WG1821785
Bromodichloromethane	U		1.58	5.00	50	02/22/2022 17:21	WG1821785
Bromoform	U		12.0	50.0	50	02/22/2022 17:21	WG1821785
Bromomethane	U		7.40	25.0	50	02/22/2022 17:21	WG1821785
n-Butylbenzene	U		7.65	25.0	50	02/22/2022 17:21	WG1821785
sec-Butylbenzene	U		5.05	25.0	50	02/22/2022 17:21	WG1821785
tert-Butylbenzene	U		3.10	10.0	50	02/22/2022 17:21	WG1821785
Carbon tetrachloride	U		2.16	10.0	50	02/22/2022 17:21	WG1821785
Chlorobenzene	U		1.15	5.00	50	02/22/2022 17:21	WG1821785
Chlorodibromomethane	U		0.900	5.00	50	02/22/2022 17:21	WG1821785
Chloroethane	U		2.16	10.0	50	02/22/2022 17:21	WG1821785
Chloroform	U		0.830	5.00	50	02/22/2022 17:21	WG1821785
Chloromethane	U		2.78	25.0	50	02/22/2022 17:21	WG1821785
2-Chlorotoluene	U		1.84	5.00	50	02/22/2022 17:21	WG1821785
4-Chlorotoluene	U		2.26	10.0	50	02/22/2022 17:21	WG1821785
1,2-Dibromo-3-Chloropropane	U		10.2	50.0	50	02/22/2022 17:21	WG1821785
1,2-Dibromoethane	U		1.05	5.00	50	02/22/2022 17:21	WG1821785
Dibromomethane	U		2.00	10.0	50	02/22/2022 17:21	WG1821785
1,2-Dichlorobenzene	U		2.90	10.0	50	02/22/2022 17:21	WG1821785
1,3-Dichlorobenzene	U		3.40	10.0	50	02/22/2022 17:21	WG1821785
1,4-Dichlorobenzene	U		3.94	10.0	50	02/22/2022 17:21	WG1821785
Dichlorodifluoromethane	U		1.64	5.00	50	02/22/2022 17:21	WG1821785
1,1-Dichloroethane	U		1.15	5.00	50	02/22/2022 17:21	WG1821785
1,2-Dichloroethane	U		0.950	5.00	50	02/22/2022 17:21	WG1821785
1,1-Dichloroethene	39.8		1.00	5.00	50	02/22/2022 17:21	WG1821785
cis-1,2-Dichloroethene	656		1.38	5.00	50	02/22/2022 17:21	WG1821785
trans-1,2-Dichloroethene	24.3		2.86	10.0	50	02/22/2022 17:21	WG1821785
1,2-Dichloropropane	U		2.54	10.0	50	02/22/2022 17:21	WG1821785
1,1-Dichloropropene	U		1.40	5.00	50	02/22/2022 17:21	WG1821785
1,3-Dichloropropane	U		3.50	10.0	50	02/22/2022 17:21	WG1821785
cis-1,3-Dichloropropene	U		1.36	5.00	50	02/22/2022 17:21	WG1821785
trans-1,3-Dichloropropene	U		3.06	10.0	50	02/22/2022 17:21	WG1821785
2,2-Dichloropropane	U		1.59	5.00	50	02/22/2022 17:21	WG1821785
Di-isopropyl ether	U		0.700	2.00	50	02/22/2022 17:21	WG1821785
Ethylbenzene	U		1.06	5.00	50	02/22/2022 17:21	WG1821785
Hexachloro-1,3-butadiene	U		25.4	50.0	50	02/22/2022 17:21	WG1821785
Isopropylbenzene	U		1.73	5.00	50	02/22/2022 17:21	WG1821785
p-Isopropyltoluene	U		4.66	10.0	50	02/22/2022 17:21	WG1821785
2-Butanone (MEK)	U		25.0	50.0	50	02/22/2022 17:21	WG1821785
Methylene Chloride	U		13.3	50.0	50	02/22/2022 17:21	WG1821785
4-Methyl-2-pentanone (MIBK)	U		20.0	50.0	50	02/22/2022 17:21	WG1821785
Methyl tert-butyl ether	U		0.590	2.00	50	02/22/2022 17:21	WG1821785
Naphthalene	U		6.20	25.0	50	02/22/2022 17:21	WG1821785
n-Propylbenzene	U		2.36	10.0	50	02/22/2022 17:21	WG1821785
Styrene	U		5.45	25.0	50	02/22/2022 17:21	WG1821785
1,1,1,2-Tetrachloroethane	U		1.00	5.00	50	02/22/2022 17:21	WG1821785
1,1,2,2-Tetrachloroethane	U		0.780	5.00	50	02/22/2022 17:21	WG1821785
1,1,2-Trichlorotrifluoroethane	U		1.35	5.00	50	02/22/2022 17:21	WG1821785
Tetrachloroethene	2890		1.40	5.00	50	02/22/2022 17:21	WG1821785
Toluene	U		2.50	10.0	50	02/22/2022 17:21	WG1821785
1,2,3-Trichlorobenzene	U		1.25	25.0	50	02/22/2022 17:21	WG1821785
1,2,4-Trichlorobenzene	U		9.65	25.0	50	02/22/2022 17:21	WG1821785
1,1,1-Trichloroethane	U		0.550	5.00	50	02/22/2022 17:21	WG1821785

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		1.77	5.00	50	02/22/2022 17:21	WG1821785
Trichloroethene	2260		0.800	2.00	50	02/22/2022 17:21	WG1821785
Trichlorofluoromethane	U	<u>C3</u>	1.00	5.00	50	02/22/2022 17:21	WG1821785
1,2,3-Trichloropropane	U		10.2	25.0	50	02/22/2022 17:21	WG1821785
1,2,4-Trimethylbenzene	U		2.32	10.0	50	02/22/2022 17:21	WG1821785
1,2,3-Trimethylbenzene	U		2.30	10.0	50	02/22/2022 17:21	WG1821785
1,3,5-Trimethylbenzene	U		2.16	10.0	50	02/22/2022 17:21	WG1821785
Vinyl chloride	14.1		1.36	5.00	50	02/22/2022 17:21	WG1821785
Xylenes, Total	U		9.55	13.0	50	02/22/2022 17:21	WG1821785
Ethyl Ether	U		0.850	5.00	50	02/22/2022 17:21	WG1821785
Tetrahydrofuran	U		4.50	25.0	50	02/22/2022 17:21	WG1821785
Iodomethane	U		12.1	25.0	50	02/22/2022 17:21	WG1821785
Allyl chloride	U		29.0	50.0	50	02/22/2022 17:21	WG1821785
Trans-1,4-Dichloro-2-butene	U		2.80	10.0	50	02/22/2022 17:21	WG1821785
(S) Toluene-d8	98.8			75.0-131		02/22/2022 17:21	WG1821785
(S) 4-Bromofluorobenzene	97.4			67.0-138		02/22/2022 17:21	WG1821785
(S) 1,2-Dichloroethane-d4	110			70.0-130		02/22/2022 17:21	WG1821785

1
Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	27.4	50.0	50	02/22/2022 17:41	WG1821785
Acrylonitrile	U		3.80	25.0	50	02/22/2022 17:41	WG1821785
Benzene	U		0.800	2.00	50	02/22/2022 17:41	WG1821785
Bromobenzene	U		2.10	25.0	50	02/22/2022 17:41	WG1821785
Bromodichloromethane	U		1.58	5.00	50	02/22/2022 17:41	WG1821785
Bromoform	U		12.0	50.0	50	02/22/2022 17:41	WG1821785
Bromomethane	U		7.40	25.0	50	02/22/2022 17:41	WG1821785
n-Butylbenzene	U		7.65	25.0	50	02/22/2022 17:41	WG1821785
sec-Butylbenzene	U		5.05	25.0	50	02/22/2022 17:41	WG1821785
tert-Butylbenzene	U		3.10	10.0	50	02/22/2022 17:41	WG1821785
Carbon tetrachloride	U		2.16	10.0	50	02/22/2022 17:41	WG1821785
Chlorobenzene	U		1.15	5.00	50	02/22/2022 17:41	WG1821785
Chlorodibromomethane	U		0.900	5.00	50	02/22/2022 17:41	WG1821785
Chloroethane	U		2.16	10.0	50	02/22/2022 17:41	WG1821785
Chloroform	U		0.830	5.00	50	02/22/2022 17:41	WG1821785
Chloromethane	U		2.78	25.0	50	02/22/2022 17:41	WG1821785
2-Chlorotoluene	U		1.84	5.00	50	02/22/2022 17:41	WG1821785
4-Chlorotoluene	U		2.26	10.0	50	02/22/2022 17:41	WG1821785
1,2-Dibromo-3-Chloropropane	U		10.2	50.0	50	02/22/2022 17:41	WG1821785
1,2-Dibromoethane	U		1.05	5.00	50	02/22/2022 17:41	WG1821785
Dibromomethane	U		2.00	10.0	50	02/22/2022 17:41	WG1821785
1,2-Dichlorobenzene	U		2.90	10.0	50	02/22/2022 17:41	WG1821785
1,3-Dichlorobenzene	U		3.40	10.0	50	02/22/2022 17:41	WG1821785
1,4-Dichlorobenzene	U		3.94	10.0	50	02/22/2022 17:41	WG1821785
Dichlorodifluoromethane	U		1.64	5.00	50	02/22/2022 17:41	WG1821785
1,1-Dichloroethane	U		1.15	5.00	50	02/22/2022 17:41	WG1821785
1,2-Dichloroethane	U		0.950	5.00	50	02/22/2022 17:41	WG1821785
1,1-Dichloroethene	10.1		1.00	5.00	50	02/22/2022 17:41	WG1821785
cis-1,2-Dichloroethene	4230		1.38	5.00	50	02/22/2022 17:41	WG1821785
trans-1,2-Dichloroethene	41.5		2.86	10.0	50	02/22/2022 17:41	WG1821785
1,2-Dichloropropane	U		2.54	10.0	50	02/22/2022 17:41	WG1821785
1,1-Dichloropropene	U		1.40	5.00	50	02/22/2022 17:41	WG1821785
1,3-Dichloropropane	U		3.50	10.0	50	02/22/2022 17:41	WG1821785
cis-1,3-Dichloropropene	U		1.36	5.00	50	02/22/2022 17:41	WG1821785
trans-1,3-Dichloropropene	U		3.06	10.0	50	02/22/2022 17:41	WG1821785
2,2-Dichloropropane	U		1.59	5.00	50	02/22/2022 17:41	WG1821785
Di-isopropyl ether	U		0.700	2.00	50	02/22/2022 17:41	WG1821785
Ethylbenzene	U		1.06	5.00	50	02/22/2022 17:41	WG1821785
Hexachloro-1,3-butadiene	U		25.4	50.0	50	02/22/2022 17:41	WG1821785
Isopropylbenzene	U		1.73	5.00	50	02/22/2022 17:41	WG1821785
p-Isopropyltoluene	U		4.66	10.0	50	02/22/2022 17:41	WG1821785
2-Butanone (MEK)	U		25.0	50.0	50	02/22/2022 17:41	WG1821785
Methylene Chloride	U		13.3	50.0	50	02/22/2022 17:41	WG1821785
4-Methyl-2-pentanone (MIBK)	U		20.0	50.0	50	02/22/2022 17:41	WG1821785
Methyl tert-butyl ether	U		0.590	2.00	50	02/22/2022 17:41	WG1821785
Naphthalene	U		6.20	25.0	50	02/22/2022 17:41	WG1821785
n-Propylbenzene	U		2.36	10.0	50	02/22/2022 17:41	WG1821785
Styrene	U		5.45	25.0	50	02/22/2022 17:41	WG1821785
1,1,1,2-Tetrachloroethane	U		1.00	5.00	50	02/22/2022 17:41	WG1821785
1,1,2,2-Tetrachloroethane	U		0.780	5.00	50	02/22/2022 17:41	WG1821785
1,1,2-Trichlorotrifluoroethane	U		1.35	5.00	50	02/22/2022 17:41	WG1821785
Tetrachloroethene	36.3		1.40	5.00	50	02/22/2022 17:41	WG1821785
Toluene	U		2.50	10.0	50	02/22/2022 17:41	WG1821785
1,2,3-Trichlorobenzene	U		1.25	25.0	50	02/22/2022 17:41	WG1821785
1,2,4-Trichlorobenzene	U		9.65	25.0	50	02/22/2022 17:41	WG1821785
1,1,1-Trichloroethane	U		0.550	5.00	50	02/22/2022 17:41	WG1821785

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		1.77	5.00	50	02/22/2022 17:41	WG1821785
Trichloroethene	16.9		0.800	2.00	50	02/22/2022 17:41	WG1821785
Trichlorofluoromethane	U	<u>C3</u>	1.00	5.00	50	02/22/2022 17:41	WG1821785
1,2,3-Trichloropropane	U		10.2	25.0	50	02/22/2022 17:41	WG1821785
1,2,4-Trimethylbenzene	U		2.32	10.0	50	02/22/2022 17:41	WG1821785
1,2,3-Trimethylbenzene	U		2.30	10.0	50	02/22/2022 17:41	WG1821785
1,3,5-Trimethylbenzene	U		2.16	10.0	50	02/22/2022 17:41	WG1821785
Vinyl chloride	3360		1.36	5.00	50	02/22/2022 17:41	WG1821785
Xylenes, Total	U		9.55	13.0	50	02/22/2022 17:41	WG1821785
Ethyl Ether	U		0.850	5.00	50	02/22/2022 17:41	WG1821785
Tetrahydrofuran	U		4.50	25.0	50	02/22/2022 17:41	WG1821785
Iodomethane	U		12.1	25.0	50	02/22/2022 17:41	WG1821785
Allyl chloride	U		29.0	50.0	50	02/22/2022 17:41	WG1821785
Trans-1,4-Dichloro-2-butene	U		2.80	10.0	50	02/22/2022 17:41	WG1821785
(S) Toluene-d8	99.7			75.0-131		02/22/2022 17:41	WG1821785
(S) 4-Bromofluorobenzene	96.8			67.0-138		02/22/2022 17:41	WG1821785
(S) 1,2-Dichloroethane-d4	112			70.0-130		02/22/2022 17:41	WG1821785

1
Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	110	200	200	02/22/2022 18:00	WG1821785
Acrylonitrile	U		15.2	100	200	02/22/2022 18:00	WG1821785
Benzene	U		3.20	8.00	200	02/22/2022 18:00	WG1821785
Bromobenzene	U		8.40	100	200	02/22/2022 18:00	WG1821785
Bromodichloromethane	U		6.30	20.0	200	02/22/2022 18:00	WG1821785
Bromoform	U		47.8	200	200	02/22/2022 18:00	WG1821785
Bromomethane	U		29.6	100	200	02/22/2022 18:00	WG1821785
n-Butylbenzene	U		30.6	100	200	02/22/2022 18:00	WG1821785
sec-Butylbenzene	U		20.2	100	200	02/22/2022 18:00	WG1821785
tert-Butylbenzene	U		12.4	40.0	200	02/22/2022 18:00	WG1821785
Carbon tetrachloride	U		8.64	40.0	200	02/22/2022 18:00	WG1821785
Chlorobenzene	U		4.58	20.0	200	02/22/2022 18:00	WG1821785
Chlorodibromomethane	U		3.60	20.0	200	02/22/2022 18:00	WG1821785
Chloroethane	U		8.64	40.0	200	02/22/2022 18:00	WG1821785
Chloroform	U		3.32	20.0	200	02/22/2022 18:00	WG1821785
Chloromethane	U		11.1	100	200	02/22/2022 18:00	WG1821785
2-Chlorotoluene	U		7.36	20.0	200	02/22/2022 18:00	WG1821785
4-Chlorotoluene	U		9.04	40.0	200	02/22/2022 18:00	WG1821785
1,2-Dibromo-3-Chloropropane	U		40.8	200	200	02/22/2022 18:00	WG1821785
1,2-Dibromoethane	U		4.20	20.0	200	02/22/2022 18:00	WG1821785
Dibromomethane	U		8.00	40.0	200	02/22/2022 18:00	WG1821785
1,2-Dichlorobenzene	U		11.6	40.0	200	02/22/2022 18:00	WG1821785
1,3-Dichlorobenzene	U		13.6	40.0	200	02/22/2022 18:00	WG1821785
1,4-Dichlorobenzene	U		15.8	40.0	200	02/22/2022 18:00	WG1821785
Dichlorodifluoromethane	U		6.54	20.0	200	02/22/2022 18:00	WG1821785
1,1-Dichloroethane	U		4.60	20.0	200	02/22/2022 18:00	WG1821785
1,2-Dichloroethane	U		3.80	20.0	200	02/22/2022 18:00	WG1821785
1,1-Dichloroethene	30.4		4.00	20.0	200	02/22/2022 18:00	WG1821785
cis-1,2-Dichloroethene	7920		5.52	20.0	200	02/22/2022 18:00	WG1821785
trans-1,2-Dichloroethene	30.4	J	11.4	40.0	200	02/22/2022 18:00	WG1821785
1,2-Dichloropropane	U		10.2	40.0	200	02/22/2022 18:00	WG1821785
1,1-Dichloropropene	U		5.60	20.0	200	02/22/2022 18:00	WG1821785
1,3-Dichloropropane	U		14.0	40.0	200	02/22/2022 18:00	WG1821785
cis-1,3-Dichloropropene	U		5.42	20.0	200	02/22/2022 18:00	WG1821785
trans-1,3-Dichloropropene	U		12.2	40.0	200	02/22/2022 18:00	WG1821785
2,2-Dichloropropane	U		6.34	20.0	200	02/22/2022 18:00	WG1821785
Di-isopropyl ether	U		2.80	8.00	200	02/22/2022 18:00	WG1821785
Ethylbenzene	U		4.24	20.0	200	02/22/2022 18:00	WG1821785
Hexachloro-1,3-butadiene	U		102	200	200	02/22/2022 18:00	WG1821785
Isopropylbenzene	U		6.90	20.0	200	02/22/2022 18:00	WG1821785
p-Isopropyltoluene	U		18.6	40.0	200	02/22/2022 18:00	WG1821785
2-Butanone (MEK)	U		100	200	200	02/22/2022 18:00	WG1821785
Methylene Chloride	U		53.0	200	200	02/22/2022 18:00	WG1821785
4-Methyl-2-pentanone (MIBK)	U		80.0	200	200	02/22/2022 18:00	WG1821785
Methyl tert-butyl ether	U		2.36	8.00	200	02/22/2022 18:00	WG1821785
Naphthalene	U		24.8	100	200	02/22/2022 18:00	WG1821785
n-Propylbenzene	U		9.44	40.0	200	02/22/2022 18:00	WG1821785
Styrene	U		21.8	100	200	02/22/2022 18:00	WG1821785
1,1,1,2-Tetrachloroethane	U		4.00	20.0	200	02/22/2022 18:00	WG1821785
1,1,2,2-Tetrachloroethane	U		3.12	20.0	200	02/22/2022 18:00	WG1821785
1,1,2-Trichlorotrifluoroethane	U		5.40	20.0	200	02/22/2022 18:00	WG1821785
Tetrachloroethene	10500		5.60	20.0	200	02/22/2022 18:00	WG1821785
Toluene	U		10.0	40.0	200	02/22/2022 18:00	WG1821785
1,2,3-Trichlorobenzene	U		5.00	100	200	02/22/2022 18:00	WG1821785
1,2,4-Trichlorobenzene	U		38.6	100	200	02/22/2022 18:00	WG1821785
1,1,1-Trichloroethane	U		2.20	20.0	200	02/22/2022 18:00	WG1821785

1 Cp

2 Tc

3 Ss

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6 Qc

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Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		7.06	20.0	200	02/22/2022 18:00	WG1821785
Trichloroethene	1800		3.20	8.00	200	02/22/2022 18:00	WG1821785
Trichlorofluoromethane	U	<u>C3</u>	4.00	20.0	200	02/22/2022 18:00	WG1821785
1,2,3-Trichloropropane	U		40.8	100	200	02/22/2022 18:00	WG1821785
1,2,4-Trimethylbenzene	U		9.28	40.0	200	02/22/2022 18:00	WG1821785
1,2,3-Trimethylbenzene	U		9.20	40.0	200	02/22/2022 18:00	WG1821785
1,3,5-Trimethylbenzene	U		8.64	40.0	200	02/22/2022 18:00	WG1821785
Vinyl chloride	2920		5.46	20.0	200	02/22/2022 18:00	WG1821785
Xylenes, Total	U		38.2	52.0	200	02/22/2022 18:00	WG1821785
Ethyl Ether	U		3.40	20.0	200	02/22/2022 18:00	WG1821785
Tetrahydrofuran	U		18.0	100	200	02/22/2022 18:00	WG1821785
Iodomethane	U		48.4	100	200	02/22/2022 18:00	WG1821785
Allyl chloride	U		116	200	200	02/22/2022 18:00	WG1821785
Trans-1,4-Dichloro-2-butene	U		11.2	40.0	200	02/22/2022 18:00	WG1821785
(S) Toluene-d8	98.2			75.0-131		02/22/2022 18:00	WG1821785
(S) 4-Bromofluorobenzene	94.9			67.0-138		02/22/2022 18:00	WG1821785
(S) 1,2-Dichloroethane-d4	113			70.0-130		02/22/2022 18:00	WG1821785

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Cp

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Tc

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Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.00	C5 C7 J4	0.548	1.00	1	02/22/2022 14:10	WG1821785
Acrylonitrile	U		0.0760	0.500	1	02/22/2022 14:10	WG1821785
Benzene	0.182		0.0160	0.0400	1	02/22/2022 14:10	WG1821785
Bromobenzene	U		0.0420	0.500	1	02/22/2022 14:10	WG1821785
Bromodichloromethane	U		0.0315	0.100	1	02/22/2022 14:10	WG1821785
Bromoform	U		0.239	1.00	1	02/22/2022 14:10	WG1821785
Bromomethane	U		0.148	0.500	1	02/22/2022 14:10	WG1821785
n-Butylbenzene	U		0.153	0.500	1	02/22/2022 14:10	WG1821785
sec-Butylbenzene	U		0.101	0.500	1	02/22/2022 14:10	WG1821785
tert-Butylbenzene	U		0.0620	0.200	1	02/22/2022 14:10	WG1821785
Carbon tetrachloride	U		0.0432	0.200	1	02/22/2022 14:10	WG1821785
Chlorobenzene	U		0.0229	0.100	1	02/22/2022 14:10	WG1821785
Chlorodibromomethane	U		0.0180	0.100	1	02/22/2022 14:10	WG1821785
Chloroethane	U		0.0432	0.200	1	02/22/2022 14:10	WG1821785
Chloroform	U		0.0166	0.100	1	02/22/2022 14:10	WG1821785
Chloromethane	U		0.0556	0.500	1	02/22/2022 14:10	WG1821785
2-Chlorotoluene	U		0.0368	0.100	1	02/22/2022 14:10	WG1821785
4-Chlorotoluene	U		0.0452	0.200	1	02/22/2022 14:10	WG1821785
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	02/22/2022 14:10	WG1821785
1,2-Dibromoethane	U		0.0210	0.100	1	02/22/2022 14:10	WG1821785
Dibromomethane	U		0.0400	0.200	1	02/22/2022 14:10	WG1821785
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/22/2022 14:10	WG1821785
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/22/2022 14:10	WG1821785
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/22/2022 14:10	WG1821785
Dichlorodifluoromethane	U		0.0327	0.100	1	02/22/2022 14:10	WG1821785
1,1-Dichloroethane	U		0.0230	0.100	1	02/22/2022 14:10	WG1821785
1,2-Dichloroethane	U		0.0190	0.100	1	02/22/2022 14:10	WG1821785
1,1-Dichloroethene	U		0.0200	0.100	1	02/22/2022 14:10	WG1821785
cis-1,2-Dichloroethene	0.0700	J	0.0276	0.100	1	02/25/2022 05:03	WG1823325
trans-1,2-Dichloroethene	0.588		0.0572	0.200	1	02/22/2022 14:10	WG1821785
1,2-Dichloropropane	U		0.0508	0.200	1	02/22/2022 14:10	WG1821785
1,1-Dichloropropene	U		0.0280	0.100	1	02/22/2022 14:10	WG1821785
1,3-Dichloropropane	U		0.0700	0.200	1	02/22/2022 14:10	WG1821785
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/22/2022 14:10	WG1821785
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/22/2022 14:10	WG1821785
2,2-Dichloropropane	U		0.0317	0.100	1	02/22/2022 14:10	WG1821785
Di-isopropyl ether	U		0.0140	0.0400	1	02/22/2022 14:10	WG1821785
Ethylbenzene	U		0.0212	0.100	1	02/22/2022 14:10	WG1821785
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/22/2022 14:10	WG1821785
Isopropylbenzene	0.187		0.0345	0.100	1	02/22/2022 14:10	WG1821785
p-Isopropyltoluene	U		0.0932	0.200	1	02/22/2022 14:10	WG1821785
2-Butanone (MEK)	U		0.500	1.00	1	02/22/2022 14:10	WG1821785
Methylene Chloride	U		0.265	1.00	1	02/22/2022 14:10	WG1821785
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/22/2022 14:10	WG1821785
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/22/2022 14:10	WG1821785
Naphthalene	U		0.124	0.500	1	02/22/2022 14:10	WG1821785
n-Propylbenzene	U		0.0472	0.200	1	02/22/2022 14:10	WG1821785
Styrene	U		0.109	0.500	1	02/22/2022 14:10	WG1821785
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/22/2022 14:10	WG1821785
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/22/2022 14:10	WG1821785
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/22/2022 14:10	WG1821785
Tetrachloroethene	U		0.0280	0.100	1	02/25/2022 05:03	WG1823325
Toluene	0.146	J	0.0500	0.200	1	02/22/2022 14:10	WG1821785
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/22/2022 14:10	WG1821785
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/22/2022 14:10	WG1821785
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/22/2022 14:10	WG1821785

1 Cp

2 Tc

3 Ss

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5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/22/2022 14:10	WG1821785
Trichloroethene	0.0470		0.0160	0.0400	1	02/25/2022 05:03	WG1823325
Trichlorofluoromethane	U	<u>C3</u>	0.0200	0.100	1	02/22/2022 14:10	WG1821785
1,2,3-Trichloropropane	U		0.204	0.500	1	02/22/2022 14:10	WG1821785
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/22/2022 14:10	WG1821785
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/22/2022 14:10	WG1821785
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/22/2022 14:10	WG1821785
Vinyl chloride	0.236		0.0273	0.100	1	02/22/2022 14:10	WG1821785
Xylenes, Total	U		0.191	0.260	1	02/22/2022 14:10	WG1821785
Ethyl Ether	U		0.0170	0.100	1	02/22/2022 14:10	WG1821785
Tetrahydrofuran	U		0.0900	0.500	1	02/22/2022 14:10	WG1821785
Iodomethane	U		0.242	0.500	1	02/22/2022 14:10	WG1821785
Allyl chloride	U		0.580	1.00	1	02/22/2022 14:10	WG1821785
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/22/2022 14:10	WG1821785
(S) Toluene-d8	102			75.0-131		02/22/2022 14:10	WG1821785
(S) Toluene-d8	98.0			75.0-131		02/25/2022 05:03	WG1823325
(S) 4-Bromofluorobenzene	97.4			67.0-138		02/22/2022 14:10	WG1821785
(S) 4-Bromofluorobenzene	97.6			67.0-138		02/25/2022 05:03	WG1823325
(S) 1,2-Dichloroethane-d4	109			70.0-130		02/22/2022 14:10	WG1821785
(S) 1,2-Dichloroethane-d4	120			70.0-130		02/25/2022 05:03	WG1823325

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Tc

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Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	2.74	5.00	5	02/22/2022 18:19	WG1821785
Acrylonitrile	U		0.380	2.50	5	02/22/2022 18:19	WG1821785
Benzene	0.265		0.0800	0.200	5	02/22/2022 18:19	WG1821785
Bromobenzene	U		0.210	2.50	5	02/22/2022 18:19	WG1821785
Bromodichloromethane	U		0.158	0.500	5	02/22/2022 18:19	WG1821785
Bromoform	U		1.20	5.00	5	02/22/2022 18:19	WG1821785
Bromomethane	U		0.740	2.50	5	02/22/2022 18:19	WG1821785
n-Butylbenzene	U		0.765	2.50	5	02/22/2022 18:19	WG1821785
sec-Butylbenzene	U		0.505	2.50	5	02/22/2022 18:19	WG1821785
tert-Butylbenzene	U		0.310	1.00	5	02/22/2022 18:19	WG1821785
Carbon tetrachloride	U		0.216	1.00	5	02/22/2022 18:19	WG1821785
Chlorobenzene	U		0.115	0.500	5	02/22/2022 18:19	WG1821785
Chlorodibromomethane	U		0.0900	0.500	5	02/22/2022 18:19	WG1821785
Chloroethane	U		0.216	1.00	5	02/22/2022 18:19	WG1821785
Chloroform	U		0.0830	0.500	5	02/22/2022 18:19	WG1821785
Chloromethane	U		0.278	2.50	5	02/22/2022 18:19	WG1821785
2-Chlorotoluene	U		0.184	0.500	5	02/22/2022 18:19	WG1821785
4-Chlorotoluene	U		0.226	1.00	5	02/22/2022 18:19	WG1821785
1,2-Dibromo-3-Chloropropane	U		1.02	5.00	5	02/22/2022 18:19	WG1821785
1,2-Dibromoethane	U		0.105	0.500	5	02/22/2022 18:19	WG1821785
Dibromomethane	U		0.200	1.00	5	02/22/2022 18:19	WG1821785
1,2-Dichlorobenzene	U		0.290	1.00	5	02/22/2022 18:19	WG1821785
1,3-Dichlorobenzene	U		0.340	1.00	5	02/22/2022 18:19	WG1821785
1,4-Dichlorobenzene	U		0.394	1.00	5	02/22/2022 18:19	WG1821785
Dichlorodifluoromethane	U		0.164	0.500	5	02/22/2022 18:19	WG1821785
1,1-Dichloroethane	U		0.115	0.500	5	02/22/2022 18:19	WG1821785
1,2-Dichloroethane	U		0.0950	0.500	5	02/22/2022 18:19	WG1821785
1,1-Dichloroethene	0.920		0.100	0.500	5	02/22/2022 18:19	WG1821785
cis-1,2-Dichloroethene	662		1.38	5.00	50	02/25/2022 06:19	WG1823325
trans-1,2-Dichloroethene	5.59		0.286	1.00	5	02/22/2022 18:19	WG1821785
1,2-Dichloropropane	U		0.254	1.00	5	02/22/2022 18:19	WG1821785
1,1-Dichloropropene	U		0.140	0.500	5	02/22/2022 18:19	WG1821785
1,3-Dichloropropane	U		0.350	1.00	5	02/22/2022 18:19	WG1821785
cis-1,3-Dichloropropene	U		0.136	0.500	5	02/22/2022 18:19	WG1821785
trans-1,3-Dichloropropene	U		0.306	1.00	5	02/22/2022 18:19	WG1821785
2,2-Dichloropropane	U		0.159	0.500	5	02/22/2022 18:19	WG1821785
Di-isopropyl ether	U		0.0700	0.200	5	02/22/2022 18:19	WG1821785
Ethylbenzene	0.300	J	0.106	0.500	5	02/22/2022 18:19	WG1821785
Hexachloro-1,3-butadiene	U		2.54	5.00	5	02/22/2022 18:19	WG1821785
Isopropylbenzene	U		0.173	0.500	5	02/22/2022 18:19	WG1821785
p-Isopropyltoluene	U		0.466	1.00	5	02/22/2022 18:19	WG1821785
2-Butanone (MEK)	U		2.50	5.00	5	02/22/2022 18:19	WG1821785
Methylene Chloride	U		1.33	5.00	5	02/22/2022 18:19	WG1821785
4-Methyl-2-pentanone (MIBK)	U		2.00	5.00	5	02/22/2022 18:19	WG1821785
Methyl tert-butyl ether	U		0.0590	0.200	5	02/22/2022 18:19	WG1821785
Naphthalene	U		0.620	2.50	5	02/22/2022 18:19	WG1821785
n-Propylbenzene	U		0.236	1.00	5	02/22/2022 18:19	WG1821785
Styrene	U		0.545	2.50	5	02/22/2022 18:19	WG1821785
1,1,1,2-Tetrachloroethane	U		0.100	0.500	5	02/22/2022 18:19	WG1821785
1,1,2,2-Tetrachloroethane	U		0.0780	0.500	5	02/22/2022 18:19	WG1821785
1,1,2-Trichlorotrifluoroethane	U		0.135	0.500	5	02/22/2022 18:19	WG1821785
Tetrachloroethene	2.18		0.140	0.500	5	02/22/2022 18:19	WG1821785
Toluene	U		0.250	1.00	5	02/22/2022 18:19	WG1821785
1,2,3-Trichlorobenzene	U		0.125	2.50	5	02/22/2022 18:19	WG1821785
1,2,4-Trichlorobenzene	U		0.965	2.50	5	02/22/2022 18:19	WG1821785
1,1,1-Trichloroethane	U		0.0550	0.500	5	02/22/2022 18:19	WG1821785

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.177	0.500	5	02/22/2022 18:19	WG1821785
Trichloroethene	3.78		0.0800	0.200	5	02/22/2022 18:19	WG1821785
Trichlorofluoromethane	U	<u>C3</u>	0.100	0.500	5	02/22/2022 18:19	WG1821785
1,2,3-Trichloropropane	U		1.02	2.50	5	02/22/2022 18:19	WG1821785
1,2,4-Trimethylbenzene	U		0.232	1.00	5	02/22/2022 18:19	WG1821785
1,2,3-Trimethylbenzene	U		0.230	1.00	5	02/22/2022 18:19	WG1821785
1,3,5-Trimethylbenzene	U		0.216	1.00	5	02/22/2022 18:19	WG1821785
Vinyl chloride	368		0.137	0.500	5	02/22/2022 18:19	WG1821785
Xylenes, Total	U		0.955	1.30	5	02/22/2022 18:19	WG1821785
Ethyl Ether	U		0.0850	0.500	5	02/22/2022 18:19	WG1821785
Tetrahydrofuran	U		0.450	2.50	5	02/22/2022 18:19	WG1821785
Iodomethane	U		1.21	2.50	5	02/22/2022 18:19	WG1821785
Allyl chloride	U		2.90	5.00	5	02/22/2022 18:19	WG1821785
Trans-1,4-Dichloro-2-butene	U		0.280	1.00	5	02/22/2022 18:19	WG1821785
(S) Toluene-d8	98.9			75.0-131		02/22/2022 18:19	WG1821785
(S) Toluene-d8	99.2			75.0-131		02/25/2022 06:19	WG1823325
(S) 4-Bromofluorobenzene	97.7			67.0-138		02/22/2022 18:19	WG1821785
(S) 4-Bromofluorobenzene	95.4			67.0-138		02/25/2022 06:19	WG1823325
(S) 1,2-Dichloroethane-d4	113			70.0-130		02/22/2022 18:19	WG1821785
(S) 1,2-Dichloroethane-d4	118			70.0-130		02/25/2022 06:19	WG1823325

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.54	<u>C5 C7 J4</u>	0.548	1.00	1	02/22/2022 14:29	WG1821785
Acrylonitrile	U		0.0760	0.500	1	02/22/2022 14:29	WG1821785
Benzene	0.0240	<u>J</u>	0.0160	0.0400	1	02/22/2022 14:29	WG1821785
Bromobenzene	U		0.0420	0.500	1	02/22/2022 14:29	WG1821785
Bromodichloromethane	U		0.0315	0.100	1	02/22/2022 14:29	WG1821785
Bromoform	U		0.239	1.00	1	02/22/2022 14:29	WG1821785
Bromomethane	U		0.148	0.500	1	02/22/2022 14:29	WG1821785
n-Butylbenzene	U		0.153	0.500	1	02/22/2022 14:29	WG1821785
sec-Butylbenzene	U		0.101	0.500	1	02/22/2022 14:29	WG1821785
tert-Butylbenzene	U		0.0620	0.200	1	02/22/2022 14:29	WG1821785
Carbon tetrachloride	U		0.0432	0.200	1	02/22/2022 14:29	WG1821785
Chlorobenzene	U		0.0229	0.100	1	02/22/2022 14:29	WG1821785
Chlorodibromomethane	U		0.0180	0.100	1	02/22/2022 14:29	WG1821785
Chloroethane	1.42		0.0432	0.200	1	02/22/2022 14:29	WG1821785
Chloroform	U		0.0166	0.100	1	02/22/2022 14:29	WG1821785
Chloromethane	U		0.0556	0.500	1	02/22/2022 14:29	WG1821785
2-Chlorotoluene	U		0.0368	0.100	1	02/22/2022 14:29	WG1821785
4-Chlorotoluene	U		0.0452	0.200	1	02/22/2022 14:29	WG1821785
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	02/22/2022 14:29	WG1821785
1,2-Dibromoethane	U		0.0210	0.100	1	02/22/2022 14:29	WG1821785
Dibromomethane	U		0.0400	0.200	1	02/22/2022 14:29	WG1821785
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/22/2022 14:29	WG1821785
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/22/2022 14:29	WG1821785
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/22/2022 14:29	WG1821785
Dichlorodifluoromethane	U		0.0327	0.100	1	02/22/2022 14:29	WG1821785
1,1-Dichloroethane	U		0.0230	0.100	1	02/22/2022 14:29	WG1821785
1,2-Dichloroethane	U		0.0190	0.100	1	02/22/2022 14:29	WG1821785
1,1-Dichloroethene	0.0280	<u>J</u>	0.0200	0.100	1	02/22/2022 14:29	WG1821785
cis-1,2-Dichloroethene	0.686		0.0276	0.100	1	02/22/2022 14:29	WG1821785
trans-1,2-Dichloroethene	0.701		0.0572	0.200	1	02/22/2022 14:29	WG1821785
1,2-Dichloropropane	U		0.0508	0.200	1	02/22/2022 14:29	WG1821785
1,1-Dichloropropene	U		0.0280	0.100	1	02/22/2022 14:29	WG1821785
1,3-Dichloropropane	U		0.0700	0.200	1	02/22/2022 14:29	WG1821785
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/22/2022 14:29	WG1821785
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/22/2022 14:29	WG1821785
2,2-Dichloropropane	U		0.0317	0.100	1	02/22/2022 14:29	WG1821785
Di-isopropyl ether	U		0.0140	0.0400	1	02/22/2022 14:29	WG1821785
Ethylbenzene	U		0.0212	0.100	1	02/22/2022 14:29	WG1821785
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/22/2022 14:29	WG1821785
Isopropylbenzene	U		0.0345	0.100	1	02/22/2022 14:29	WG1821785
p-Isopropyltoluene	U		0.0932	0.200	1	02/22/2022 14:29	WG1821785
2-Butanone (MEK)	U		0.500	1.00	1	02/22/2022 14:29	WG1821785
Methylene Chloride	U		0.265	1.00	1	02/22/2022 14:29	WG1821785
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/22/2022 14:29	WG1821785
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/22/2022 14:29	WG1821785
Naphthalene	U		0.124	0.500	1	02/22/2022 14:29	WG1821785
n-Propylbenzene	U		0.0472	0.200	1	02/22/2022 14:29	WG1821785
Styrene	U		0.109	0.500	1	02/22/2022 14:29	WG1821785
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/22/2022 14:29	WG1821785
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/22/2022 14:29	WG1821785
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/22/2022 14:29	WG1821785
Tetrachloroethene	U		0.140	0.500	5	02/25/2022 06:37	WG1823325
Toluene	U		0.0500	0.200	1	02/22/2022 14:29	WG1821785
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/22/2022 14:29	WG1821785
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/22/2022 14:29	WG1821785
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/22/2022 14:29	WG1821785

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/22/2022 14:29	WG1821785
Trichloroethene	0.180	<u>J</u>	0.0800	0.200	5	02/25/2022 06:37	WG1823325
Trichlorofluoromethane	U	<u>C3</u>	0.0200	0.100	1	02/22/2022 14:29	WG1821785
1,2,3-Trichloropropane	U		0.204	0.500	1	02/22/2022 14:29	WG1821785
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/22/2022 14:29	WG1821785
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/22/2022 14:29	WG1821785
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/22/2022 14:29	WG1821785
Vinyl chloride	117		0.137	0.500	5	02/25/2022 06:37	WG1823325
Xylenes, Total	U		0.191	0.260	1	02/22/2022 14:29	WG1821785
Ethyl Ether	U		0.0170	0.100	1	02/22/2022 14:29	WG1821785
Tetrahydrofuran	U		0.0900	0.500	1	02/22/2022 14:29	WG1821785
Iodomethane	U		0.242	0.500	1	02/22/2022 14:29	WG1821785
Allyl chloride	U		0.580	1.00	1	02/22/2022 14:29	WG1821785
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/22/2022 14:29	WG1821785
(S) Toluene-d8	103			75.0-131		02/22/2022 14:29	WG1821785
(S) Toluene-d8	97.0			75.0-131		02/25/2022 06:37	WG1823325
(S) 4-Bromofluorobenzene	96.1			67.0-138		02/22/2022 14:29	WG1821785
(S) 4-Bromofluorobenzene	99.7			67.0-138		02/25/2022 06:37	WG1823325
(S) 1,2-Dichloroethane-d4	107			70.0-130		02/22/2022 14:29	WG1821785
(S) 1,2-Dichloroethane-d4	120			70.0-130		02/25/2022 06:37	WG1823325

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	172000		8450	20000	1	02/23/2022 12:35	WG1822229

Sample Narrative:

L1463646-11 WG1822229: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	11200		594	5000	1	02/24/2022 14:06	WG1823081

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1060	<u>B</u>	102	1000	1	02/22/2022 19:03	WG1821754

Metals (ICPMS) by Method 6020B

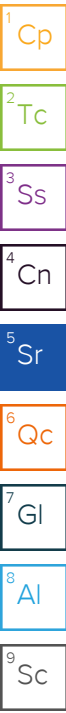
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	10800		28.1	100	1	02/22/2022 15:54	WG1821051
Manganese	546		0.704	5.00	1	02/22/2022 15:54	WG1821051

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	37.3		0.287	0.678	1	02/23/2022 11:13	WG1821928
Ethane	U		0.296	1.29	1	02/23/2022 11:13	WG1821928
Ethene	U		0.422	1.27	1	02/23/2022 11:13	WG1821928

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	02/24/2022 08:00	WG1822900
Acrylonitrile	U		0.0760	0.500	1	02/24/2022 08:00	WG1822900
Benzene	U		0.0160	0.0400	1	02/24/2022 08:00	WG1822900
Bromobenzene	U		0.0420	0.500	1	02/24/2022 08:00	WG1822900
Bromodichloromethane	U		0.0315	0.100	1	02/24/2022 08:00	WG1822900
Bromoform	U		0.239	1.00	1	02/24/2022 08:00	WG1822900
Bromomethane	U		0.148	0.500	1	02/24/2022 08:00	WG1822900
n-Butylbenzene	U		0.153	0.500	1	02/24/2022 08:00	WG1822900
sec-Butylbenzene	U		0.101	0.500	1	02/24/2022 08:00	WG1822900
tert-Butylbenzene	U		0.0620	0.200	1	02/24/2022 08:00	WG1822900
Carbon tetrachloride	U		0.0432	0.200	1	02/24/2022 08:00	WG1822900
Chlorobenzene	U		0.0229	0.100	1	02/24/2022 08:00	WG1822900
Chlorodibromomethane	U		0.0180	0.100	1	02/24/2022 08:00	WG1822900
Chloroethane	U		0.0432	0.200	1	02/24/2022 08:00	WG1822900
Chloroform	U		0.0166	0.100	1	02/24/2022 08:00	WG1822900
Chloromethane	U		0.0556	0.500	1	02/24/2022 08:00	WG1822900
2-Chlorotoluene	U		0.0368	0.100	1	02/24/2022 08:00	WG1822900
4-Chlorotoluene	U		0.0452	0.200	1	02/24/2022 08:00	WG1822900
1,2-Dibromo-3-Chloropropane	U	<u>C3</u>	0.204	1.00	1	02/24/2022 08:00	WG1822900
1,2-Dibromoethane	U		0.0210	0.100	1	02/24/2022 08:00	WG1822900
Dibromomethane	U		0.0400	0.200	1	02/24/2022 08:00	WG1822900
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/24/2022 08:00	WG1822900



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/24/2022 08:00	WG1822900
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/24/2022 08:00	WG1822900
Dichlorodifluoromethane	U		0.0327	0.100	1	02/24/2022 08:00	WG1822900
1,1-Dichloroethane	U		0.0230	0.100	1	02/24/2022 08:00	WG1822900
1,2-Dichloroethane	U		0.0190	0.100	1	02/24/2022 08:00	WG1822900
1,1-Dichloroethene	U		0.0200	0.100	1	02/24/2022 08:00	WG1822900
cis-1,2-Dichloroethene	U		0.0276	0.100	1	02/24/2022 08:00	WG1822900
trans-1,2-Dichloroethene	U		0.0572	0.200	1	02/24/2022 08:00	WG1822900
1,2-Dichloropropane	U		0.0508	0.200	1	02/24/2022 08:00	WG1822900
1,1-Dichloropropene	U		0.0280	0.100	1	02/24/2022 08:00	WG1822900
1,3-Dichloropropane	U		0.0700	0.200	1	02/24/2022 08:00	WG1822900
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/24/2022 08:00	WG1822900
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/24/2022 08:00	WG1822900
2,2-Dichloropropane	U		0.0317	0.100	1	02/24/2022 08:00	WG1822900
Di-isopropyl ether	U		0.0140	0.0400	1	02/24/2022 08:00	WG1822900
Ethylbenzene	U		0.0212	0.100	1	02/24/2022 08:00	WG1822900
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/24/2022 08:00	WG1822900
Isopropylbenzene	U		0.0345	0.100	1	02/24/2022 08:00	WG1822900
p-Isopropyltoluene	U		0.0932	0.200	1	02/24/2022 08:00	WG1822900
2-Butanone (MEK)	U		0.500	1.00	1	02/24/2022 08:00	WG1822900
Methylene Chloride	U		0.265	1.00	1	02/24/2022 08:00	WG1822900
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/24/2022 08:00	WG1822900
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/24/2022 08:00	WG1822900
Naphthalene	U	C3	0.124	0.500	1	02/24/2022 08:00	WG1822900
n-Propylbenzene	U		0.0472	0.200	1	02/24/2022 08:00	WG1822900
Styrene	U		0.109	0.500	1	02/24/2022 08:00	WG1822900
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/24/2022 08:00	WG1822900
1,1,2,2-Tetrachloroethane	U	C3	0.0156	0.100	1	02/24/2022 08:00	WG1822900
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/24/2022 08:00	WG1822900
Tetrachloroethene	U		0.0280	0.100	1	02/24/2022 08:00	WG1822900
Toluene	0.0680	U	0.0500	0.200	1	02/24/2022 08:00	WG1822900
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/24/2022 08:00	WG1822900
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/24/2022 08:00	WG1822900
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/24/2022 08:00	WG1822900
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/24/2022 08:00	WG1822900
Trichloroethene	U		0.0160	0.0400	1	02/24/2022 08:00	WG1822900
Trichlorofluoromethane	U		0.0200	0.100	1	02/24/2022 08:00	WG1822900
1,2,3-Trichloropropane	U		0.204	0.500	1	02/24/2022 08:00	WG1822900
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/24/2022 08:00	WG1822900
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/24/2022 08:00	WG1822900
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/24/2022 08:00	WG1822900
Vinyl chloride	U		0.0273	0.100	1	02/24/2022 08:00	WG1822900
Xylenes, Total	U		0.191	0.260	1	02/24/2022 08:00	WG1822900
Ethyl Ether	U		0.0170	0.100	1	02/24/2022 08:00	WG1822900
Tetrahydrofuran	U		0.0900	0.500	1	02/24/2022 08:00	WG1822900
Iodomethane	U		0.242	0.500	1	02/24/2022 08:00	WG1822900
Allyl chloride	U		0.580	1.00	1	02/24/2022 08:00	WG1822900
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/24/2022 08:00	WG1822900
(S) Toluene-d8	96.8			75.0-131		02/24/2022 08:00	WG1822900
(S) 4-Bromofluorobenzene	100			67.0-138		02/24/2022 08:00	WG1822900
(S) 1,2-Dichloroethane-d4	109			70.0-130		02/24/2022 08:00	WG1822900

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	920000		8450	20000	1	02/23/2022 12:38	WG1822229

Sample Narrative:

L1463646-12 WG1822229: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	62200		594	5000	1	02/24/2022 14:20	WG1823081

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	15700		102	1000	1	02/22/2022 19:24	WG1821754

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	9320		28.1	100	1	02/22/2022 15:57	WG1821051
Manganese	4390		0.704	5.00	1	02/22/2022 15:57	WG1821051

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	3790		0.287	0.678	1	02/23/2022 11:23	WG1821928
Ethane	11.5		0.296	1.29	1	02/23/2022 11:23	WG1821928
Ethene	1.59		0.422	1.27	1	02/23/2022 11:23	WG1821928

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.11	C5	0.548	1.00	1	02/24/2022 08:20	WG1822900
Acrylonitrile	U		0.0760	0.500	1	02/24/2022 08:20	WG1822900
Benzene	0.224		0.0160	0.0400	1	02/24/2022 08:20	WG1822900
Bromobenzene	U		0.0420	0.500	1	02/24/2022 08:20	WG1822900
Bromodichloromethane	U		0.0315	0.100	1	02/24/2022 08:20	WG1822900
Bromoform	U		0.239	1.00	1	02/24/2022 08:20	WG1822900
Bromomethane	U		0.148	0.500	1	02/24/2022 08:20	WG1822900
n-Butylbenzene	U		0.153	0.500	1	02/24/2022 08:20	WG1822900
sec-Butylbenzene	U		0.101	0.500	1	02/24/2022 08:20	WG1822900
tert-Butylbenzene	U		0.0620	0.200	1	02/24/2022 08:20	WG1822900
Carbon tetrachloride	U		0.0432	0.200	1	02/24/2022 08:20	WG1822900
Chlorobenzene	U		0.0229	0.100	1	02/24/2022 08:20	WG1822900
Chlorodibromomethane	U		0.0180	0.100	1	02/24/2022 08:20	WG1822900
Chloroethane	U		0.0432	0.200	1	02/24/2022 08:20	WG1822900
Chloroform	U		0.0166	0.100	1	02/24/2022 08:20	WG1822900
Chloromethane	U		0.0556	0.500	1	02/24/2022 08:20	WG1822900
2-Chlorotoluene	U		0.0368	0.100	1	02/24/2022 08:20	WG1822900
4-Chlorotoluene	U		0.0452	0.200	1	02/24/2022 08:20	WG1822900
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	02/24/2022 08:20	WG1822900
1,2-Dibromoethane	U		0.0210	0.100	1	02/24/2022 08:20	WG1822900
Dibromomethane	U		0.0400	0.200	1	02/24/2022 08:20	WG1822900
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/24/2022 08:20	WG1822900

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/24/2022 08:20	WG1822900
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/24/2022 08:20	WG1822900
Dichlorodifluoromethane	U		0.0327	0.100	1	02/24/2022 08:20	WG1822900
1,1-Dichloroethane	U		0.0230	0.100	1	02/24/2022 08:20	WG1822900
1,2-Dichloroethane	U		0.0190	0.100	1	02/24/2022 08:20	WG1822900
1,1-Dichloroethene	0.0290	U	0.0200	0.100	1	02/24/2022 08:20	WG1822900
cis-1,2-Dichloroethene	6.30		0.0276	0.100	1	02/24/2022 08:20	WG1822900
trans-1,2-Dichloroethene	0.186	U	0.0572	0.200	1	02/24/2022 08:20	WG1822900
1,2-Dichloropropane	U		0.0508	0.200	1	02/24/2022 08:20	WG1822900
1,1-Dichloropropene	U		0.0280	0.100	1	02/24/2022 08:20	WG1822900
1,3-Dichloropropane	U		0.0700	0.200	1	02/24/2022 08:20	WG1822900
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/24/2022 08:20	WG1822900
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/24/2022 08:20	WG1822900
2,2-Dichloropropane	U		0.0317	0.100	1	02/24/2022 08:20	WG1822900
Di-isopropyl ether	U		0.0140	0.0400	1	02/24/2022 08:20	WG1822900
Ethylbenzene	U		0.0212	0.100	1	02/24/2022 08:20	WG1822900
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/24/2022 08:20	WG1822900
Isopropylbenzene	U		0.0345	0.100	1	02/24/2022 08:20	WG1822900
p-Isopropyltoluene	U		0.0932	0.200	1	02/24/2022 08:20	WG1822900
2-Butanone (MEK)	U		0.500	1.00	1	02/24/2022 08:20	WG1822900
Methylene Chloride	U		0.265	1.00	1	02/24/2022 08:20	WG1822900
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/24/2022 08:20	WG1822900
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/24/2022 08:20	WG1822900
Naphthalene	U	C3	0.124	0.500	1	02/24/2022 08:20	WG1822900
n-Propylbenzene	U		0.0472	0.200	1	02/24/2022 08:20	WG1822900
Styrene	U		0.109	0.500	1	02/24/2022 08:20	WG1822900
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/24/2022 08:20	WG1822900
1,1,2,2-Tetrachloroethane	U	C3	0.0156	0.100	1	02/24/2022 08:20	WG1822900
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/24/2022 08:20	WG1822900
Tetrachloroethene	U		0.0280	0.100	1	02/24/2022 08:20	WG1822900
Toluene	U		0.0500	0.200	1	02/24/2022 08:20	WG1822900
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/24/2022 08:20	WG1822900
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/24/2022 08:20	WG1822900
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/24/2022 08:20	WG1822900
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/24/2022 08:20	WG1822900
Trichloroethene	0.0870		0.0160	0.0400	1	02/24/2022 08:20	WG1822900
Trichlorofluoromethane	U		0.0200	0.100	1	02/24/2022 08:20	WG1822900
1,2,3-Trichloropropane	U		0.204	0.500	1	02/24/2022 08:20	WG1822900
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/24/2022 08:20	WG1822900
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/24/2022 08:20	WG1822900
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/24/2022 08:20	WG1822900
Vinyl chloride	8.06		0.0273	0.100	1	02/24/2022 08:20	WG1822900
Xylenes, Total	U		0.191	0.260	1	02/24/2022 08:20	WG1822900
Ethyl Ether	0.181		0.0170	0.100	1	02/24/2022 08:20	WG1822900
Tetrahydrofuran	U		0.0900	0.500	1	02/24/2022 08:20	WG1822900
Iodomethane	U		0.242	0.500	1	02/24/2022 08:20	WG1822900
Allyl chloride	U		0.580	1.00	1	02/24/2022 08:20	WG1822900
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/24/2022 08:20	WG1822900
(S) Toluene-d8	100			75.0-131		02/24/2022 08:20	WG1822900
(S) 4-Bromofluorobenzene	98.9			67.0-138		02/24/2022 08:20	WG1822900
(S) 1,2-Dichloroethane-d4	108			70.0-130		02/24/2022 08:20	WG1822900

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	583000		8450	20000	1	02/23/2022 12:42	WG1822229

Sample Narrative:

L1463646-13 WG1822229: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	18600		594	5000	1	02/24/2022 14:35	WG1823081

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3600		102	1000	1	02/22/2022 20:08	WG1821754

Metals (ICPMS) by Method 6020B

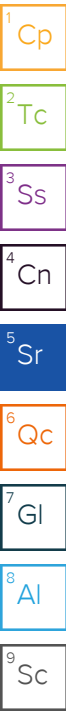
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	10900		28.1	100	1	02/22/2022 16:00	WG1821051
Manganese	1430		0.704	5.00	1	02/22/2022 16:00	WG1821051

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	3320		0.287	0.678	1	02/23/2022 11:26	WG1821928
Ethane	36.6		0.296	1.29	1	02/23/2022 11:26	WG1821928
Ethene	121		0.422	1.27	1	02/23/2022 11:26	WG1821928

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.12	C5	0.548	1.00	1	02/24/2022 08:39	WG1822900
Acrylonitrile	U		0.0760	0.500	1	02/24/2022 08:39	WG1822900
Benzene	0.0520		0.0160	0.0400	1	02/24/2022 08:39	WG1822900
Bromobenzene	U		0.0420	0.500	1	02/24/2022 08:39	WG1822900
Bromodichloromethane	U		0.0315	0.100	1	02/24/2022 08:39	WG1822900
Bromoform	U		0.239	1.00	1	02/24/2022 08:39	WG1822900
Bromomethane	U		0.148	0.500	1	02/24/2022 08:39	WG1822900
n-Butylbenzene	U		0.153	0.500	1	02/24/2022 08:39	WG1822900
sec-Butylbenzene	U		0.101	0.500	1	02/24/2022 08:39	WG1822900
tert-Butylbenzene	U		0.0620	0.200	1	02/24/2022 08:39	WG1822900
Carbon tetrachloride	U		0.0432	0.200	1	02/24/2022 08:39	WG1822900
Chlorobenzene	U		0.0229	0.100	1	02/24/2022 08:39	WG1822900
Chlorodibromomethane	U		0.0180	0.100	1	02/24/2022 08:39	WG1822900
Chloroethane	U		0.0432	0.200	1	02/24/2022 08:39	WG1822900
Chloroform	U		0.0166	0.100	1	02/24/2022 08:39	WG1822900
Chloromethane	U		0.0556	0.500	1	02/24/2022 08:39	WG1822900
2-Chlorotoluene	U		0.0368	0.100	1	02/24/2022 08:39	WG1822900
4-Chlorotoluene	U		0.0452	0.200	1	02/24/2022 08:39	WG1822900
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	02/24/2022 08:39	WG1822900
1,2-Dibromoethane	U		0.0210	0.100	1	02/24/2022 08:39	WG1822900
Dibromomethane	U		0.0400	0.200	1	02/24/2022 08:39	WG1822900
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/24/2022 08:39	WG1822900



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/24/2022 08:39	WG1822900
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/24/2022 08:39	WG1822900
Dichlorodifluoromethane	U		0.0327	0.100	1	02/24/2022 08:39	WG1822900
1,1-Dichloroethane	U		0.0230	0.100	1	02/24/2022 08:39	WG1822900
1,2-Dichloroethane	U		0.0190	0.100	1	02/24/2022 08:39	WG1822900
1,1-Dichloroethene	0.598		0.0200	0.100	1	02/24/2022 08:39	WG1822900
cis-1,2-Dichloroethene	275		0.276	1.00	10	02/25/2022 06:56	WG1823209
trans-1,2-Dichloroethene	2.36		0.0572	0.200	1	02/24/2022 08:39	WG1822900
1,2-Dichloropropane	U		0.0508	0.200	1	02/24/2022 08:39	WG1822900
1,1-Dichloropropene	U		0.0280	0.100	1	02/24/2022 08:39	WG1822900
1,3-Dichloropropane	U		0.0700	0.200	1	02/24/2022 08:39	WG1822900
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/24/2022 08:39	WG1822900
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/24/2022 08:39	WG1822900
2,2-Dichloropropane	U		0.0317	0.100	1	02/24/2022 08:39	WG1822900
Di-isopropyl ether	U		0.0140	0.0400	1	02/24/2022 08:39	WG1822900
Ethylbenzene	U		0.0212	0.100	1	02/24/2022 08:39	WG1822900
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/24/2022 08:39	WG1822900
Isopropylbenzene	U		0.0345	0.100	1	02/24/2022 08:39	WG1822900
p-Isopropyltoluene	U		0.0932	0.200	1	02/24/2022 08:39	WG1822900
2-Butanone (MEK)	U		0.500	1.00	1	02/24/2022 08:39	WG1822900
Methylene Chloride	U		0.265	1.00	1	02/24/2022 08:39	WG1822900
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/24/2022 08:39	WG1822900
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/24/2022 08:39	WG1822900
Naphthalene	U	C3	0.124	0.500	1	02/24/2022 08:39	WG1822900
n-Propylbenzene	U		0.0472	0.200	1	02/24/2022 08:39	WG1822900
Styrene	U		0.109	0.500	1	02/24/2022 08:39	WG1822900
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/24/2022 08:39	WG1822900
1,1,2,2-Tetrachloroethane	U	C3	0.0156	0.100	1	02/24/2022 08:39	WG1822900
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/24/2022 08:39	WG1822900
Tetrachloroethene	U		0.0280	0.100	1	02/24/2022 08:39	WG1822900
Toluene	0.110	U	0.0500	0.200	1	02/24/2022 08:39	WG1822900
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/24/2022 08:39	WG1822900
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/24/2022 08:39	WG1822900
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/24/2022 08:39	WG1822900
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/24/2022 08:39	WG1822900
Trichloroethene	0.426		0.0160	0.0400	1	02/24/2022 08:39	WG1822900
Trichlorofluoromethane	U		0.0200	0.100	1	02/24/2022 08:39	WG1822900
1,2,3-Trichloropropane	U		0.204	0.500	1	02/24/2022 08:39	WG1822900
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/24/2022 08:39	WG1822900
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/24/2022 08:39	WG1822900
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/24/2022 08:39	WG1822900
Vinyl chloride	383		0.273	1.00	10	02/25/2022 06:56	WG1823209
Xylenes, Total	U		0.191	0.260	1	02/24/2022 08:39	WG1822900
Ethyl Ether	U		0.0170	0.100	1	02/24/2022 08:39	WG1822900
Tetrahydrofuran	4.46		0.0900	0.500	1	02/24/2022 08:39	WG1822900
Iodomethane	U		0.242	0.500	1	02/24/2022 08:39	WG1822900
Allyl chloride	U		0.580	1.00	1	02/24/2022 08:39	WG1822900
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/24/2022 08:39	WG1822900
(S) Toluene-d8	101			75.0-131		02/24/2022 08:39	WG1822900
(S) Toluene-d8	95.5			75.0-131		02/25/2022 06:56	WG1823209
(S) 4-Bromofluorobenzene	101			67.0-138		02/24/2022 08:39	WG1822900
(S) 4-Bromofluorobenzene	95.9			67.0-138		02/25/2022 06:56	WG1823209
(S) 1,2-Dichloroethane-d4	109			70.0-130		02/24/2022 08:39	WG1822900
(S) 1,2-Dichloroethane-d4	120			70.0-130		02/25/2022 06:56	WG1823209

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	508000		8450	20000	1	02/23/2022 12:45	WG1822229

Sample Narrative:

L1463646-14 WG1822229: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	13400		594	5000	1	02/24/2022 14:50	WG1823081

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3570		102	1000	1	02/22/2022 20:36	WG1821754

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	6150		28.1	100	1	02/22/2022 16:03	WG1821051
Manganese	1330		0.704	5.00	1	02/22/2022 16:03	WG1821051

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	4870		0.287	0.678	1	02/23/2022 13:52	WG1821931
Ethane	149		0.296	1.29	1	02/23/2022 13:52	WG1821931
Ethene	180		0.422	1.27	1	02/23/2022 13:52	WG1821931

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J3 J4	5.48	10.0	10	02/25/2022 07:15	WG1823209
Acrylonitrile	U	J3	0.760	5.00	10	02/25/2022 07:15	WG1823209
Benzene	U		0.160	0.400	10	02/25/2022 07:15	WG1823209
Bromobenzene	U		0.420	5.00	10	02/25/2022 07:15	WG1823209
Bromodichloromethane	U		0.315	1.00	10	02/25/2022 07:15	WG1823209
Bromoform	U		2.39	10.0	10	02/25/2022 07:15	WG1823209
Bromomethane	U		1.48	5.00	10	02/25/2022 07:15	WG1823209
n-Butylbenzene	U		1.53	5.00	10	02/25/2022 07:15	WG1823209
sec-Butylbenzene	U		1.01	5.00	10	02/25/2022 07:15	WG1823209
tert-Butylbenzene	U		0.620	2.00	10	02/25/2022 07:15	WG1823209
Carbon tetrachloride	U		0.432	2.00	10	02/25/2022 07:15	WG1823209
Chlorobenzene	U		0.229	1.00	10	02/25/2022 07:15	WG1823209
Chlorodibromomethane	U		0.180	1.00	10	02/25/2022 07:15	WG1823209
Chloroethane	U		0.432	2.00	10	02/25/2022 07:15	WG1823209
Chloroform	U		0.166	1.00	10	02/25/2022 07:15	WG1823209
Chloromethane	U		0.556	5.00	10	02/25/2022 07:15	WG1823209
2-Chlorotoluene	U		0.368	1.00	10	02/25/2022 07:15	WG1823209
4-Chlorotoluene	U		0.452	2.00	10	02/25/2022 07:15	WG1823209
1,2-Dibromo-3-Chloropropane	U		2.04	10.0	10	02/25/2022 07:15	WG1823209
1,2-Dibromoethane	U		0.210	1.00	10	02/25/2022 07:15	WG1823209
Dibromomethane	U		0.400	2.00	10	02/25/2022 07:15	WG1823209
1,2-Dichlorobenzene	U		0.580	2.00	10	02/25/2022 07:15	WG1823209

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,3-Dichlorobenzene	U		0.680	2.00	10	02/25/2022 07:15	WG1823209
1,4-Dichlorobenzene	U		0.788	2.00	10	02/25/2022 07:15	WG1823209
Dichlorodifluoromethane	U		0.327	1.00	10	02/25/2022 07:15	WG1823209
1,1-Dichloroethane	U		0.230	1.00	10	02/25/2022 07:15	WG1823209
1,2-Dichloroethane	U		0.190	1.00	10	02/25/2022 07:15	WG1823209
1,1-Dichloroethene	U		0.200	1.00	10	02/25/2022 07:15	WG1823209
cis-1,2-Dichloroethene	42.5		0.276	1.00	10	02/25/2022 07:15	WG1823209
trans-1,2-Dichloroethene	1.45	J	0.572	2.00	10	02/25/2022 07:15	WG1823209
1,2-Dichloropropane	U		0.508	2.00	10	02/25/2022 07:15	WG1823209
1,1-Dichloropropene	U		0.280	1.00	10	02/25/2022 07:15	WG1823209
1,3-Dichloropropane	U		0.700	2.00	10	02/25/2022 07:15	WG1823209
cis-1,3-Dichloropropene	U		0.271	1.00	10	02/25/2022 07:15	WG1823209
trans-1,3-Dichloropropene	U		0.612	2.00	10	02/25/2022 07:15	WG1823209
2,2-Dichloropropane	U		0.317	1.00	10	02/25/2022 07:15	WG1823209
Di-isopropyl ether	U		0.140	0.400	10	02/25/2022 07:15	WG1823209
Ethylbenzene	U		0.212	1.00	10	02/25/2022 07:15	WG1823209
Hexachloro-1,3-butadiene	U		5.08	10.0	10	02/25/2022 07:15	WG1823209
Isopropylbenzene	U		0.345	1.00	10	02/25/2022 07:15	WG1823209
p-Isopropyltoluene	U		0.932	2.00	10	02/25/2022 07:15	WG1823209
2-Butanone (MEK)	U		5.00	10.0	10	02/25/2022 07:15	WG1823209
Methylene Chloride	U		2.65	10.0	10	02/25/2022 07:15	WG1823209
4-Methyl-2-pentanone (MIBK)	U		4.00	10.0	10	02/25/2022 07:15	WG1823209
Methyl tert-butyl ether	U		0.118	0.400	10	02/25/2022 07:15	WG1823209
Naphthalene	U		1.24	5.00	10	02/25/2022 07:15	WG1823209
n-Propylbenzene	U		0.472	2.00	10	02/25/2022 07:15	WG1823209
Styrene	U		1.09	5.00	10	02/25/2022 07:15	WG1823209
1,1,1,2-Tetrachloroethane	U		0.200	1.00	10	02/25/2022 07:15	WG1823209
1,1,2,2-Tetrachloroethane	U	C3	0.156	1.00	10	02/25/2022 07:15	WG1823209
1,1,2-Trichlorotrifluoroethane	U		0.270	1.00	10	02/25/2022 07:15	WG1823209
Tetrachloroethene	U		0.280	1.00	10	02/25/2022 07:15	WG1823209
Toluene	U		0.500	2.00	10	02/25/2022 07:15	WG1823209
1,2,3-Trichlorobenzene	U		0.250	5.00	10	02/25/2022 07:15	WG1823209
1,2,4-Trichlorobenzene	U		1.93	5.00	10	02/25/2022 07:15	WG1823209
1,1,1-Trichloroethane	U		0.110	1.00	10	02/25/2022 07:15	WG1823209
1,1,2-Trichloroethane	U		0.353	1.00	10	02/25/2022 07:15	WG1823209
Trichloroethene	U		0.160	0.400	10	02/25/2022 07:15	WG1823209
Trichlorofluoromethane	U		0.200	1.00	10	02/25/2022 07:15	WG1823209
1,2,3-Trichloropropane	U		2.04	5.00	10	02/25/2022 07:15	WG1823209
1,2,4-Trimethylbenzene	U		0.464	2.00	10	02/25/2022 07:15	WG1823209
1,2,3-Trimethylbenzene	U		0.460	2.00	10	02/25/2022 07:15	WG1823209
1,3,5-Trimethylbenzene	U		0.432	2.00	10	02/25/2022 07:15	WG1823209
Vinyl chloride	315		0.273	1.00	10	02/25/2022 07:15	WG1823209
Xylenes, Total	U		1.91	2.60	10	02/25/2022 07:15	WG1823209
Ethyl Ether	U		0.170	1.00	10	02/25/2022 07:15	WG1823209
Tetrahydrofuran	U	J3 J4	0.900	5.00	10	02/25/2022 07:15	WG1823209
Iodomethane	U		2.42	5.00	10	02/25/2022 07:15	WG1823209
Allyl chloride	U		5.80	10.0	10	02/25/2022 07:15	WG1823209
Trans-1,4-Dichloro-2-butene	U		0.560	2.00	10	02/25/2022 07:15	WG1823209
(S) Toluene-d8	98.0			75.0-131		02/25/2022 07:15	WG1823209
(S) 4-Bromofluorobenzene	97.7			67.0-138		02/25/2022 07:15	WG1823209
(S) 1,2-Dichloroethane-d4	122			70.0-130		02/25/2022 07:15	WG1823209

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	191000		8450	20000	1	02/23/2022 12:48	WG1822229

Sample Narrative:

L1463646-15 WG1822229: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	44700		594	5000	1	02/24/2022 15:05	WG1823081

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1670	<u>B</u>	102	1000	1	02/22/2022 20:49	WG1821754

Metals (ICPMS) by Method 6020B

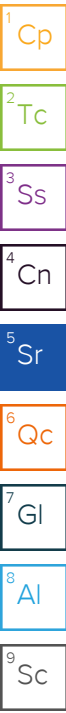
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	278		28.1	100	1	02/22/2022 16:07	WG1821051
Manganese	11.1		0.704	5.00	1	02/22/2022 16:07	WG1821051

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	U		0.287	0.678	1	02/23/2022 14:05	WG1821931
Ethane	U		0.296	1.29	1	02/23/2022 14:05	WG1821931
Ethene	U		0.422	1.27	1	02/23/2022 14:05	WG1821931

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	02/24/2022 08:58	WG1822900
Acrylonitrile	U		0.0760	0.500	1	02/24/2022 08:58	WG1822900
Benzene	U		0.0160	0.0400	1	02/24/2022 08:58	WG1822900
Bromobenzene	U		0.0420	0.500	1	02/24/2022 08:58	WG1822900
Bromodichloromethane	U		0.0315	0.100	1	02/24/2022 08:58	WG1822900
Bromoform	U		0.239	1.00	1	02/24/2022 08:58	WG1822900
Bromomethane	U		0.148	0.500	1	02/24/2022 08:58	WG1822900
n-Butylbenzene	U		0.153	0.500	1	02/24/2022 08:58	WG1822900
sec-Butylbenzene	U		0.101	0.500	1	02/24/2022 08:58	WG1822900
tert-Butylbenzene	U		0.0620	0.200	1	02/24/2022 08:58	WG1822900
Carbon tetrachloride	U		0.0432	0.200	1	02/24/2022 08:58	WG1822900
Chlorobenzene	U		0.0229	0.100	1	02/24/2022 08:58	WG1822900
Chlorodibromomethane	U		0.0180	0.100	1	02/24/2022 08:58	WG1822900
Chloroethane	U		0.0432	0.200	1	02/24/2022 08:58	WG1822900
Chloroform	U		0.0166	0.100	1	02/24/2022 08:58	WG1822900
Chloromethane	U		0.0556	0.500	1	02/24/2022 08:58	WG1822900
2-Chlorotoluene	U		0.0368	0.100	1	02/24/2022 08:58	WG1822900
4-Chlorotoluene	U		0.0452	0.200	1	02/24/2022 08:58	WG1822900
1,2-Dibromo-3-Chloropropane	U	<u>C3</u>	0.204	1.00	1	02/24/2022 08:58	WG1822900
1,2-Dibromoethane	U		0.0210	0.100	1	02/24/2022 08:58	WG1822900
Dibromomethane	U		0.0400	0.200	1	02/24/2022 08:58	WG1822900
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/24/2022 08:58	WG1822900



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/24/2022 08:58	WG1822900
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/24/2022 08:58	WG1822900
Dichlorodifluoromethane	U		0.0327	0.100	1	02/24/2022 08:58	WG1822900
1,1-Dichloroethane	U		0.0230	0.100	1	02/24/2022 08:58	WG1822900
1,2-Dichloroethane	U		0.0190	0.100	1	02/24/2022 08:58	WG1822900
1,1-Dichloroethene	U		0.0200	0.100	1	02/24/2022 08:58	WG1822900
cis-1,2-Dichloroethene	0.104		0.0276	0.100	1	02/25/2022 07:34	WG1823209
trans-1,2-Dichloroethene	U		0.0572	0.200	1	02/24/2022 08:58	WG1822900
1,2-Dichloropropane	U		0.0508	0.200	1	02/24/2022 08:58	WG1822900
1,1-Dichloropropene	U		0.0280	0.100	1	02/24/2022 08:58	WG1822900
1,3-Dichloropropane	U		0.0700	0.200	1	02/24/2022 08:58	WG1822900
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/24/2022 08:58	WG1822900
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/24/2022 08:58	WG1822900
2,2-Dichloropropane	U		0.0317	0.100	1	02/24/2022 08:58	WG1822900
Di-isopropyl ether	U		0.0140	0.0400	1	02/24/2022 08:58	WG1822900
Ethylbenzene	U		0.0212	0.100	1	02/24/2022 08:58	WG1822900
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/24/2022 08:58	WG1822900
Isopropylbenzene	U		0.0345	0.100	1	02/24/2022 08:58	WG1822900
p-Isopropyltoluene	U		0.0932	0.200	1	02/24/2022 08:58	WG1822900
2-Butanone (MEK)	U		0.500	1.00	1	02/24/2022 08:58	WG1822900
Methylene Chloride	U		0.265	1.00	1	02/24/2022 08:58	WG1822900
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/24/2022 08:58	WG1822900
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/24/2022 08:58	WG1822900
Naphthalene	U	C3	0.124	0.500	1	02/24/2022 08:58	WG1822900
n-Propylbenzene	U		0.0472	0.200	1	02/24/2022 08:58	WG1822900
Styrene	U		0.109	0.500	1	02/24/2022 08:58	WG1822900
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/24/2022 08:58	WG1822900
1,1,2,2-Tetrachloroethane	U	C3	0.0156	0.100	1	02/24/2022 08:58	WG1822900
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/24/2022 08:58	WG1822900
Tetrachloroethene	3.86		0.0280	0.100	1	02/24/2022 08:58	WG1822900
Toluene	U		0.0500	0.200	1	02/24/2022 08:58	WG1822900
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/24/2022 08:58	WG1822900
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/24/2022 08:58	WG1822900
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/24/2022 08:58	WG1822900
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/24/2022 08:58	WG1822900
Trichloroethene	0.489		0.0160	0.0400	1	02/24/2022 08:58	WG1822900
Trichlorofluoromethane	U		0.0200	0.100	1	02/24/2022 08:58	WG1822900
1,2,3-Trichloropropane	U		0.204	0.500	1	02/24/2022 08:58	WG1822900
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/24/2022 08:58	WG1822900
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/24/2022 08:58	WG1822900
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/24/2022 08:58	WG1822900
Vinyl chloride	U		0.0273	0.100	1	02/25/2022 07:34	WG1823209
Xylenes, Total	U		0.191	0.260	1	02/24/2022 08:58	WG1822900
Ethyl Ether	U		0.0170	0.100	1	02/24/2022 08:58	WG1822900
Tetrahydrofuran	U		0.0900	0.500	1	02/24/2022 08:58	WG1822900
Iodomethane	U		0.242	0.500	1	02/24/2022 08:58	WG1822900
Allyl chloride	U		0.580	1.00	1	02/24/2022 08:58	WG1822900
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/24/2022 08:58	WG1822900
(S) Toluene-d8	99.2			75.0-131		02/24/2022 08:58	WG1822900
(S) Toluene-d8	96.9			75.0-131		02/25/2022 07:34	WG1823209
(S) 4-Bromofluorobenzene	96.3			67.0-138		02/24/2022 08:58	WG1822900
(S) 4-Bromofluorobenzene	100			67.0-138		02/25/2022 07:34	WG1823209
(S) 1,2-Dichloroethane-d4	109			70.0-130		02/24/2022 08:58	WG1822900
(S) 1,2-Dichloroethane-d4	126			70.0-130		02/25/2022 07:34	WG1823209

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.00	C5	0.548	1.00	1	02/24/2022 07:41	WG1822900
Acrylonitrile	U		0.0760	0.500	1	02/24/2022 07:41	WG1822900
Benzene	U		0.0160	0.0400	1	02/24/2022 07:41	WG1822900
Bromobenzene	U		0.0420	0.500	1	02/24/2022 07:41	WG1822900
Bromodichloromethane	U		0.0315	0.100	1	02/24/2022 07:41	WG1822900
Bromoform	U		0.239	1.00	1	02/24/2022 07:41	WG1822900
Bromomethane	U		0.148	0.500	1	02/24/2022 07:41	WG1822900
n-Butylbenzene	U		0.153	0.500	1	02/24/2022 07:41	WG1822900
sec-Butylbenzene	U		0.101	0.500	1	02/24/2022 07:41	WG1822900
tert-Butylbenzene	U		0.0620	0.200	1	02/24/2022 07:41	WG1822900
Carbon tetrachloride	U		0.0432	0.200	1	02/24/2022 07:41	WG1822900
Chlorobenzene	U		0.0229	0.100	1	02/24/2022 07:41	WG1822900
Chlorodibromomethane	U		0.0180	0.100	1	02/24/2022 07:41	WG1822900
Chloroethane	U		0.0432	0.200	1	02/24/2022 07:41	WG1822900
Chloroform	U		0.0166	0.100	1	02/24/2022 07:41	WG1822900
Chloromethane	U		0.0556	0.500	1	02/24/2022 07:41	WG1822900
2-Chlorotoluene	U		0.0368	0.100	1	02/24/2022 07:41	WG1822900
4-Chlorotoluene	U		0.0452	0.200	1	02/24/2022 07:41	WG1822900
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	02/24/2022 07:41	WG1822900
1,2-Dibromoethane	U		0.0210	0.100	1	02/24/2022 07:41	WG1822900
Dibromomethane	U		0.0400	0.200	1	02/24/2022 07:41	WG1822900
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/24/2022 07:41	WG1822900
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/24/2022 07:41	WG1822900
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/24/2022 07:41	WG1822900
Dichlorodifluoromethane	U		0.0327	0.100	1	02/24/2022 07:41	WG1822900
1,1-Dichloroethane	U		0.0230	0.100	1	02/24/2022 07:41	WG1822900
1,2-Dichloroethane	U		0.0190	0.100	1	02/24/2022 07:41	WG1822900
1,1-Dichloroethene	U		0.0200	0.100	1	02/24/2022 07:41	WG1822900
cis-1,2-Dichloroethene	U		0.0276	0.100	1	02/24/2022 07:41	WG1822900
trans-1,2-Dichloroethene	U		0.0572	0.200	1	02/24/2022 07:41	WG1822900
1,2-Dichloropropane	U		0.0508	0.200	1	02/24/2022 07:41	WG1822900
1,1-Dichloropropene	U		0.0280	0.100	1	02/24/2022 07:41	WG1822900
1,3-Dichloropropane	U		0.0700	0.200	1	02/24/2022 07:41	WG1822900
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/24/2022 07:41	WG1822900
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/24/2022 07:41	WG1822900
2,2-Dichloropropane	U		0.0317	0.100	1	02/24/2022 07:41	WG1822900
Di-isopropyl ether	U		0.0140	0.0400	1	02/24/2022 07:41	WG1822900
Ethylbenzene	U		0.0212	0.100	1	02/24/2022 07:41	WG1822900
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/24/2022 07:41	WG1822900
Isopropylbenzene	U		0.0345	0.100	1	02/24/2022 07:41	WG1822900
p-Isopropyltoluene	U		0.0932	0.200	1	02/24/2022 07:41	WG1822900
2-Butanone (MEK)	U		0.500	1.00	1	02/24/2022 07:41	WG1822900
Methylene Chloride	U		0.265	1.00	1	02/24/2022 07:41	WG1822900
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/24/2022 07:41	WG1822900
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/24/2022 07:41	WG1822900
Naphthalene	U	C3	0.124	0.500	1	02/24/2022 07:41	WG1822900
n-Propylbenzene	U		0.0472	0.200	1	02/24/2022 07:41	WG1822900
Styrene	U		0.109	0.500	1	02/24/2022 07:41	WG1822900
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/24/2022 07:41	WG1822900
1,1,2,2-Tetrachloroethane	U	C3	0.0156	0.100	1	02/24/2022 07:41	WG1822900
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/24/2022 07:41	WG1822900
Tetrachloroethene	U		0.0280	0.100	1	02/24/2022 07:41	WG1822900
Toluene	0.0580	J	0.0500	0.200	1	02/24/2022 07:41	WG1822900
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/24/2022 07:41	WG1822900
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/24/2022 07:41	WG1822900
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/24/2022 07:41	WG1822900

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/24/2022 07:41	WG1822900
Trichloroethene	U		0.0160	0.0400	1	02/24/2022 07:41	WG1822900
Trichlorofluoromethane	U		0.0200	0.100	1	02/24/2022 07:41	WG1822900
1,2,3-Trichloropropane	U		0.204	0.500	1	02/24/2022 07:41	WG1822900
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/24/2022 07:41	WG1822900
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/24/2022 07:41	WG1822900
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/24/2022 07:41	WG1822900
Vinyl chloride	U		0.0273	0.100	1	02/24/2022 07:41	WG1822900
Xylenes, Total	U		0.191	0.260	1	02/24/2022 07:41	WG1822900
Ethyl Ether	U		0.0170	0.100	1	02/24/2022 07:41	WG1822900
Tetrahydrofuran	U		0.0900	0.500	1	02/24/2022 07:41	WG1822900
Iodomethane	U		0.242	0.500	1	02/24/2022 07:41	WG1822900
Allyl chloride	U		0.580	1.00	1	02/24/2022 07:41	WG1822900
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/24/2022 07:41	WG1822900
(S) Toluene-d8	101			75.0-131		02/24/2022 07:41	WG1822900
(S) 4-Bromofluorobenzene	99.0			67.0-138		02/24/2022 07:41	WG1822900
(S) 1,2-Dichloroethane-d4	105			70.0-130		02/24/2022 07:41	WG1822900

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3763054-2 02/23/22 11:34

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	U		8450	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1463417-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1463417-01 02/23/22 11:50 • (DUP) R3763054-3 02/23/22 11:53

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	456000	459000	1	0.656		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1463986-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1463986-01 02/23/22 13:07 • (DUP) R3763054-4 02/23/22 13:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	138000	138000	1	0.219		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3763054-1 02/23/22 11:30

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	103000	103	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3764012-1 02/24/22 09:50

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Sulfate	663	↓	594	5000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1463646-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1463646-15 02/24/22 15:05 • (DUP) R3764012-3 02/24/22 15:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	44700	45400	1	1.66		15

L1464849-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1464849-03 02/25/22 00:58 • (DUP) R3764012-6 02/25/22 01:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	43400	43100	1	0.735		15

Laboratory Control Sample (LCS)

(LCS) R3764012-2 02/24/22 10:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Sulfate	40000	40000	99.9	80.0-120	

L1463646-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1463646-15 02/24/22 15:05 • (MS) R3764012-4 02/24/22 15:35 • (MSD) R3764012-5 02/24/22 15:50

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Sulfate	50000	44700	91700	90700	94.1	92.0	1	80.0-120			1.13	15

L1464849-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1464849-03 02/25/22 00:58 • (MS) R3764012-7 02/25/22 01:28

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Sulfate	50000	43400	93400	99.9	1	80.0-120	

Method Blank (MB)

(MB) R3762780-2 02/22/22 12:04

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	321	↓	102	1000

1 Cp

2 Tc

3 Ss

L1463646-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1463646-13 02/22/22 20:08 • (DUP) R3762780-5 02/22/22 20:22

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	3600	3470	1	3.59		20

4 Cn

5 Sr

L1463761-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1463761-01 02/22/22 21:52 • (DUP) R3762780-8 02/22/22 22:06

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	2180	2040	1	6.35		20

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3762780-1 02/22/22 11:51

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	75100	100	85.0-115	

L1462228-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1462228-01 02/22/22 17:00 • (MS) R3762780-3 02/22/22 17:18 • (MSD) R3762780-4 02/22/22 17:36

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	6100	55700	55500	99.2	98.8	1	80.0-120			0.342	20

L1463646-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1463646-15 02/22/22 20:49 • (MS) R3762780-6 02/22/22 21:07 • (MSD) R3762780-7 02/22/22 21:25

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	1670	51100	50900	98.8	98.4	1	80.0-120			0.373	20

Method Blank (MB)

(MB) R3762627-1 02/22/22 14:32

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		28.1	100
Manganese	U		0.704	5.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3762627-2 02/22/22 14:36

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron	5000	5040	101	80.0-120	
Manganese	50.0	47.8	95.7	80.0-120	

L1463356-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1463356-05 02/22/22 14:39 • (MS) R3762627-4 02/22/22 14:46 • (MSD) R3762627-5 02/22/22 14:49

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	44900	52100	49700	143	95.5	1	75.0-125	V		4.64	20
Manganese	50.0	5830	5930	5800	205	0.000	1	75.0-125	V	V	2.35	20

Method Blank (MB)

(MB) R3762964-2 02/23/22 09:07

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1463413-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1463413-12 02/23/22 10:13 • (DUP) R3762964-3 02/23/22 10:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	5390	5430	1	0.739		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1463646-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1463646-13 02/23/22 11:26 • (DUP) R3762964-4 02/23/22 11:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	3320	3360	1	1.20		20
Ethane	36.6	37.3	1	1.89		20
Ethene	121	123	1	1.64		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3762964-1 02/23/22 09:03 • (LCSD) R3762964-7 02/23/22 13:10

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	67.5	66.3	99.6	97.8	85.0-115			1.79	20
Ethane	129	123	122	95.3	94.6	85.0-115			0.816	20
Ethene	127	124	124	97.6	97.6	85.0-115			0.000	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1463417-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1463417-01 02/23/22 10:20 • (MS) R3762964-5 02/23/22 12:45 • (MSD) R3762964-6 02/23/22 13:06

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methane	67.8	456	550	545	139	131	1	85.0-115	<u>V</u>	<u>V</u>	0.913	20
Ethane	129	U	117	116	90.7	89.9	1	85.0-115			0.858	20
Ethene	127	U	119	117	93.7	92.1	1	85.0-115			1.69	20

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3763084-2 02/23/22 13:47

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1464007-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1464007-04 02/23/22 14:30 • (DUP) R3763084-3 02/23/22 14:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	U	U	1	0.000		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1464007-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1464007-14 02/23/22 15:20 • (DUP) R3763084-8 02/23/22 15:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	154	229	1	39.2		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3763084-1 02/23/22 13:44 • (LCSD) R3763084-9 02/23/22 15:44

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	65.1	67.9	96.0	100	85.0-115			4.21	20
Ethane	129	121	119	93.8	92.2	85.0-115			1.67	20
Ethene	127	123	121	96.9	95.3	85.0-115			1.64	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1463857-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1463857-01 02/23/22 14:08 • (MS) R3763084-4 02/23/22 15:23 • (MSD) R3763084-5 02/23/22 15:28

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methane	67.8	U	70.1	69.9	103	103	1	85.0-115			0.286	20
Ethane	129	U	116	119	89.9	92.2	1	85.0-115			2.55	20
Ethene	127	U	118	121	92.9	95.3	1	85.0-115			2.51	20

L1464007-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1464007-09 02/23/22 15:03 • (MS) R3763084-6 02/23/22 15:31 • (MSD) R3763084-7 02/23/22 15:34

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methane	67.8	1760	2130	2160	546	590	1	85.0-115	V	V	1.40	20
Ethane	129	U	126	119	97.7	92.2	1	85.0-115			5.71	20
Ethene	127	U	126	120	99.2	94.5	1	85.0-115			4.88	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3763456-3 02/22/22 11:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00
Isopropylbenzene	U		0.0345	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3763456-3 02/22/22 11:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Ethyl ether	U		0.0170	0.100
Tetrahydrofuran	U		0.0900	0.500
Iodomethane	U		0.242	0.500
Allyl Chloride	U		0.580	1.00
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
(S) Toluene-d8	97.9			75.0-131
(S) 4-Bromofluorobenzene	102			67.0-138
(S) 1,2-Dichloroethane-d4	109			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3763456-1 02/22/22 09:53 • (LCSD) R3763456-2 02/22/22 10:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	44.8	36.0	179	144	10.0-160	J4		21.8	31
Acrylonitrile	25.0	23.8	21.1	95.2	84.4	45.0-153			12.0	22
Benzene	5.00	4.41	4.45	88.2	89.0	70.0-123			0.903	20
Bromobenzene	5.00	4.68	4.95	93.6	99.0	73.0-121			5.61	20
Bromodichloromethane	5.00	5.20	5.22	104	104	73.0-121			0.384	20
Bromoform	5.00	5.72	5.53	114	111	64.0-132			3.38	20
Bromomethane	5.00	4.62	4.56	92.4	91.2	56.0-147			1.31	20
n-Butylbenzene	5.00	4.41	4.71	88.2	94.2	68.0-135			6.58	20
sec-Butylbenzene	5.00	4.46	4.78	89.2	95.6	74.0-130			6.93	20
tert-Butylbenzene	5.00	4.57	4.98	91.4	99.6	75.0-127			8.59	20
Carbon tetrachloride	5.00	5.33	5.49	107	110	66.0-128			2.96	20
Chlorobenzene	5.00	4.92	4.88	98.4	97.6	76.0-128			0.816	20
Chlorodibromomethane	5.00	5.47	5.31	109	106	74.0-127			2.97	20
Chloroethane	5.00	4.47	4.38	89.4	87.6	61.0-134			2.03	20
Chloroform	5.00	4.92	5.08	98.4	102	72.0-123			3.20	20
Chloromethane	5.00	4.13	4.24	82.6	84.8	51.0-138			2.63	20
2-Chlorotoluene	5.00	4.70	4.78	94.0	95.6	75.0-124			1.69	20
4-Chlorotoluene	5.00	4.78	5.09	95.6	102	75.0-124			6.28	20
1,2-Dibromo-3-Chloropropane	5.00	4.23	4.29	84.6	85.8	59.0-130			1.41	20
1,2-Dibromoethane	5.00	5.15	4.88	103	97.6	74.0-128			5.38	20
Dibromomethane	5.00	4.84	4.84	96.8	96.8	75.0-122			0.000	20
1,2-Dichlorobenzene	5.00	4.63	4.95	92.6	99.0	76.0-124			6.68	20
1,3-Dichlorobenzene	5.00	4.83	5.16	96.6	103	76.0-125			6.61	20
1,4-Dichlorobenzene	5.00	4.70	4.78	94.0	95.6	77.0-121			1.69	20
Dichlorodifluoromethane	5.00	5.42	5.52	108	110	43.0-156			1.83	20
1,1-Dichloroethane	5.00	4.85	4.84	97.0	96.8	70.0-127			0.206	20
1,2-Dichloroethane	5.00	5.41	5.42	108	108	65.0-131			0.185	20
1,1-Dichloroethene	5.00	4.74	4.81	94.8	96.2	65.0-131			1.47	20
cis-1,2-Dichloroethene	5.00	5.07	5.18	101	104	73.0-125			2.15	20
trans-1,2-Dichloroethene	5.00	4.99	5.04	99.8	101	71.0-125			0.997	20
1,2-Dichloropropane	5.00	4.87	4.80	97.4	96.0	74.0-125			1.45	20
1,1-Dichloropropene	5.00	4.79	4.86	95.8	97.2	73.0-125			1.45	20
1,3-Dichloropropane	5.00	4.91	4.77	98.2	95.4	80.0-125			2.89	20
cis-1,3-Dichloropropene	5.00	5.27	5.17	105	103	76.0-127			1.92	20
trans-1,3-Dichloropropene	5.00	5.80	5.51	116	110	73.0-127			5.13	20
2,2-Dichloropropane	5.00	4.66	4.67	93.2	93.4	59.0-135			0.214	20
Di-isopropyl ether	5.00	4.60	4.56	92.0	91.2	60.0-136			0.873	20
Ethylbenzene	5.00	5.21	5.07	104	101	74.0-126			2.72	20
Hexachloro-1,3-butadiene	5.00	5.58	5.43	112	109	57.0-150			2.72	20
Isopropylbenzene	5.00	5.06	5.03	101	101	72.0-127			0.595	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3763456-1 02/22/22 09:53 • (LCSD) R3763456-2 02/22/22 10:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
p-Isopropyltoluene	5.00	4.93	5.16	98.6	103	72.0-133			4.56	20
2-Butanone (MEK)	25.0	23.1	22.0	92.4	88.0	30.0-160			4.88	24
Methylene Chloride	5.00	4.58	4.71	91.6	94.2	68.0-123			2.80	20
4-Methyl-2-pentanone (MIBK)	25.0	26.8	24.6	107	98.4	56.0-143			8.56	20
Methyl tert-butyl ether	5.00	5.13	5.07	103	101	66.0-132			1.18	20
Naphthalene	5.00	4.16	4.39	83.2	87.8	59.0-130			5.38	20
n-Propylbenzene	5.00	4.44	4.75	88.8	95.0	74.0-126			6.75	20
Styrene	5.00	5.07	4.94	101	98.8	72.0-127			2.60	20
1,1,1,2-Tetrachloroethane	5.00	5.20	5.26	104	105	74.0-129			1.15	20
1,1,2,2-Tetrachloroethane	5.00	4.06	4.27	81.2	85.4	68.0-128			5.04	20
1,1,2-Trichlorotrifluoroethane	5.00	4.69	4.92	93.8	98.4	61.0-139			4.79	20
Tetrachloroethene	5.00	5.06	5.18	101	104	70.0-136			2.34	20
Toluene	5.00	4.54	4.39	90.8	87.8	75.0-121			3.36	20
1,2,3-Trichlorobenzene	5.00	4.41	4.78	88.2	95.6	59.0-139			8.05	20
1,2,4-Trichlorobenzene	5.00	4.89	4.98	97.8	99.6	62.0-137			1.82	20
1,1,1-Trichloroethane	5.00	5.07	5.00	101	100	69.0-126			1.39	20
1,1,2-Trichloroethane	5.00	4.93	4.77	98.6	95.4	78.0-123			3.30	20
Trichloroethene	5.00	5.06	4.93	101	98.6	76.0-126			2.60	20
Trichlorofluoromethane	5.00	3.92	4.48	78.4	89.6	61.0-142			13.3	20
1,2,3-Trichloropropane	5.00	5.04	5.31	101	106	67.0-129			5.22	20
1,2,4-Trimethylbenzene	5.00	4.73	5.05	94.6	101	70.0-126			6.54	20
1,2,3-Trimethylbenzene	5.00	4.67	4.91	93.4	98.2	74.0-124			5.01	20
1,3,5-Trimethylbenzene	5.00	4.63	4.95	92.6	99.0	73.0-127			6.68	20
Vinyl chloride	5.00	4.25	4.26	85.0	85.2	63.0-134			0.235	20
Xylenes, Total	15.0	15.3	14.8	102	98.7	72.0-127			3.32	20
Ethyl ether	5.00	4.72	4.91	94.4	98.2	64.0-137			3.95	20
Tetrahydrofuran	5.00	5.60	5.57	112	111	37.0-146			0.537	24
Iodomethane	25.0	26.3	27.0	105	108	74.0-134			2.63	20
Allyl chloride	25.0	25.8	26.4	103	106	70.0-131			2.30	20
trans-1,4-Dichloro-2-butene	5.00	5.01	4.89	100	97.8	45.0-143			2.42	20
(S) Toluene-d8				98.9	97.9	75.0-131				
(S) 4-Bromofluorobenzene				102	96.6	67.0-138				
(S) 1,2-Dichloroethane-d4				107	108	70.0-130				

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3763369-2 02/24/22 06:44

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00
Isopropylbenzene	U		0.0345	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3763369-2 02/24/22 06:44

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Ethyl ether	U		0.0170	0.100
Tetrahydrofuran	U		0.0900	0.500
Iodomethane	U		0.242	0.500
Allyl Chloride	U		0.580	1.00
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
(S) Toluene-d8	98.4			75.0-131
(S) 4-Bromofluorobenzene	95.9			67.0-138
(S) 1,2-Dichloroethane-d4	103			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3763369-1 02/24/22 05:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	25.0	34.0	136	10.0-160	
Acrylonitrile	25.0	19.5	78.0	45.0-153	
Benzene	5.00	4.54	90.8	70.0-123	
Bromobenzene	5.00	5.04	101	73.0-121	
Bromodichloromethane	5.00	5.22	104	73.0-121	
Bromoform	5.00	5.52	110	64.0-132	
Bromomethane	5.00	5.24	105	56.0-147	
n-Butylbenzene	5.00	4.71	94.2	68.0-135	
sec-Butylbenzene	5.00	4.89	97.8	74.0-130	
tert-Butylbenzene	5.00	5.03	101	75.0-127	
Carbon tetrachloride	5.00	5.56	111	66.0-128	
Chlorobenzene	5.00	5.04	101	76.0-128	
Chlorodibromomethane	5.00	5.26	105	74.0-127	
Chloroethane	5.00	4.81	96.2	61.0-134	
Chloroform	5.00	5.03	101	72.0-123	
Chloromethane	5.00	4.45	89.0	51.0-138	
2-Chlorotoluene	5.00	5.16	103	75.0-124	
4-Chlorotoluene	5.00	4.98	99.6	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	4.06	81.2	59.0-130	
1,2-Dibromoethane	5.00	4.88	97.6	74.0-128	
Dibromomethane	5.00	4.75	95.0	75.0-122	
1,2-Dichlorobenzene	5.00	4.93	98.6	76.0-124	
1,3-Dichlorobenzene	5.00	5.11	102	76.0-125	
1,4-Dichlorobenzene	5.00	4.74	94.8	77.0-121	
Dichlorodifluoromethane	5.00	5.05	101	43.0-156	
1,1-Dichloroethane	5.00	4.93	98.6	70.0-127	
1,2-Dichloroethane	5.00	5.26	105	65.0-131	
1,1-Dichloroethene	5.00	4.90	98.0	65.0-131	
cis-1,2-Dichloroethene	5.00	5.24	105	73.0-125	
trans-1,2-Dichloroethene	5.00	5.05	101	71.0-125	
1,2-Dichloropropane	5.00	4.68	93.6	74.0-125	
1,1-Dichloropropene	5.00	4.98	99.6	73.0-125	
1,3-Dichloropropane	5.00	4.63	92.6	80.0-125	
cis-1,3-Dichloropropene	5.00	5.10	102	76.0-127	
trans-1,3-Dichloropropene	5.00	5.14	103	73.0-127	
2,2-Dichloropropane	5.00	4.53	90.6	59.0-135	
Di-isopropyl ether	5.00	4.69	93.8	60.0-136	
Ethylbenzene	5.00	4.95	99.0	74.0-126	
Hexachloro-1,3-butadiene	5.00	5.87	117	57.0-150	
Isopropylbenzene	5.00	5.06	101	72.0-127	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3763369-1 02/24/22 05:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
p-Isopropyltoluene	5.00	5.31	106	72.0-133	
2-Butanone (MEK)	25.0	19.0	76.0	30.0-160	
Methylene Chloride	5.00	4.54	90.8	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	22.9	91.6	56.0-143	
Methyl tert-butyl ether	5.00	4.79	95.8	66.0-132	
Naphthalene	5.00	4.07	81.4	59.0-130	
n-Propylbenzene	5.00	4.86	97.2	74.0-126	
Styrene	5.00	5.12	102	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	5.22	104	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	3.63	72.6	68.0-128	
1,1,2-Trichlorotrifluoroethane	5.00	4.99	99.8	61.0-139	
Tetrachloroethene	5.00	5.21	104	70.0-136	
Toluene	5.00	4.41	88.2	75.0-121	
1,2,3-Trichlorobenzene	5.00	4.50	90.0	59.0-139	
1,2,4-Trichlorobenzene	5.00	5.06	101	62.0-137	
1,1,1-Trichloroethane	5.00	5.26	105	69.0-126	
1,1,2-Trichloroethane	5.00	4.61	92.2	78.0-123	
Trichloroethene	5.00	5.78	116	76.0-126	
Trichlorofluoromethane	5.00	5.34	107	61.0-142	
1,2,3-Trichloropropane	5.00	5.01	100	67.0-129	
1,2,4-Trimethylbenzene	5.00	5.05	101	70.0-126	
1,2,3-Trimethylbenzene	5.00	5.05	101	74.0-124	
1,3,5-Trimethylbenzene	5.00	5.09	102	73.0-127	
Vinyl chloride	5.00	4.48	89.6	63.0-134	
Xylenes, Total	15.0	15.0	100	72.0-127	
Ethyl ether	5.00	4.71	94.2	64.0-137	
Tetrahydrofuran	5.00	4.59	91.8	37.0-146	
Iodomethane	25.0	28.1	112	74.0-134	
Allyl chloride	25.0	25.9	104	70.0-131	
trans-1,4-Dichloro-2-butene	5.00	4.55	91.0	45.0-143	
(S) Toluene-d8			95.5	75.0-131	
(S) 4-Bromofluorobenzene			95.4	67.0-138	
(S) 1,2-Dichloroethane-d4			104	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3763682-3 02/25/22 02:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00
Isopropylbenzene	U		0.0345	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3763682-3 02/25/22 02:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Ethyl ether	U		0.0170	0.100
Tetrahydrofuran	U		0.0900	0.500
Iodomethane	U		0.242	0.500
Allyl Chloride	U		0.580	1.00
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
(S) Toluene-d8	97.9			75.0-131
(S) 4-Bromofluorobenzene	94.7			67.0-138
(S) 1,2-Dichloroethane-d4	113			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3763682-1 02/25/22 01:14 • (LCSD) R3763682-2 02/25/22 01:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	40.6	62.9	162	252	10.0-160	J4	J3 J4	43.1	31
Acrylonitrile	25.0	21.8	28.2	87.2	113	45.0-153		J3	25.6	22
Benzene	5.00	4.51	4.53	90.2	90.6	70.0-123			0.442	20
Bromobenzene	5.00	5.15	5.22	103	104	73.0-121			1.35	20
Bromodichloromethane	5.00	5.51	5.54	110	111	73.0-121			0.543	20
Bromoform	5.00	5.61	6.10	112	122	64.0-132			8.37	20
Bromomethane	5.00	4.60	4.84	92.0	96.8	56.0-147			5.08	20
n-Butylbenzene	5.00	4.56	4.52	91.2	90.4	68.0-135			0.881	20
sec-Butylbenzene	5.00	4.77	4.77	95.4	95.4	74.0-130			0.000	20
tert-Butylbenzene	5.00	5.00	4.97	100	99.4	75.0-127			0.602	20
Carbon tetrachloride	5.00	5.78	5.93	116	119	66.0-128			2.56	20
Chlorobenzene	5.00	4.97	5.10	99.4	102	76.0-128			2.58	20
Chlorodibromomethane	5.00	5.52	5.71	110	114	74.0-127			3.38	20
Chloroethane	5.00	4.55	4.58	91.0	91.6	61.0-134			0.657	20
Chloroform	5.00	5.37	5.44	107	109	72.0-123			1.30	20
Chloromethane	5.00	4.37	4.33	87.4	86.6	51.0-138			0.920	20
2-Chlorotoluene	5.00	5.06	4.82	101	96.4	75.0-124			4.86	20
4-Chlorotoluene	5.00	5.10	5.13	102	103	75.0-124			0.587	20
1,2-Dibromo-3-Chloropropane	5.00	4.36	5.01	87.2	100	59.0-130			13.9	20
1,2-Dibromoethane	5.00	4.93	5.05	98.6	101	74.0-128			2.40	20
Dibromomethane	5.00	5.05	5.31	101	106	75.0-122			5.02	20
1,2-Dichlorobenzene	5.00	4.90	5.07	98.0	101	76.0-124			3.41	20
1,3-Dichlorobenzene	5.00	5.09	5.32	102	106	76.0-125			4.42	20
1,4-Dichlorobenzene	5.00	4.97	5.18	99.4	104	77.0-121			4.14	20
Dichlorodifluoromethane	5.00	5.10	4.99	102	99.8	43.0-156			2.18	20
1,1-Dichloroethane	5.00	5.21	5.04	104	101	70.0-127			3.32	20
1,2-Dichloroethane	5.00	5.80	5.94	116	119	65.0-131			2.39	20
1,1-Dichloroethene	5.00	5.05	5.00	101	100	65.0-131			0.995	20
cis-1,2-Dichloroethene	5.00	5.45	5.45	109	109	73.0-125			0.000	20
trans-1,2-Dichloroethene	5.00	5.10	4.98	102	99.6	71.0-125			2.38	20
1,2-Dichloropropane	5.00	4.83	4.88	96.6	97.6	74.0-125			1.03	20
1,1-Dichloropropene	5.00	4.88	4.86	97.6	97.2	73.0-125			0.411	20
1,3-Dichloropropane	5.00	4.87	4.82	97.4	96.4	80.0-125			1.03	20
cis-1,3-Dichloropropene	5.00	5.10	5.16	102	103	76.0-127			1.17	20
trans-1,3-Dichloropropene	5.00	5.39	5.28	108	106	73.0-127			2.06	20
2,2-Dichloropropane	5.00	4.79	4.88	95.8	97.6	59.0-135			1.86	20
Di-isopropyl ether	5.00	4.92	4.98	98.4	99.6	60.0-136			1.21	20
Ethylbenzene	5.00	4.87	5.23	97.4	105	74.0-126			7.13	20
Hexachloro-1,3-butadiene	5.00	5.62	5.47	112	109	57.0-150			2.71	20
Isopropylbenzene	5.00	5.16	5.25	103	105	72.0-127			1.73	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3763682-1 02/25/22 01:14 • (LCSD) R3763682-2 02/25/22 01:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
p-Isopropyltoluene	5.00	5.19	5.26	104	105	72.0-133			1.34	20
2-Butanone (MEK)	25.0	24.9	25.1	99.6	100	30.0-160			0.800	24
Methylene Chloride	5.00	4.74	4.85	94.8	97.0	68.0-123			2.29	20
4-Methyl-2-pentanone (MIBK)	25.0	26.2	27.8	105	111	56.0-143			5.93	20
Methyl tert-butyl ether	5.00	4.96	5.20	99.2	104	66.0-132			4.72	20
Naphthalene	5.00	4.02	4.22	80.4	84.4	59.0-130			4.85	20
n-Propylbenzene	5.00	4.63	4.74	92.6	94.8	74.0-126			2.35	20
Styrene	5.00	5.17	5.11	103	102	72.0-127			1.17	20
1,1,1,2-Tetrachloroethane	5.00	5.38	5.78	108	116	74.0-129			7.17	20
1,1,2,2-Tetrachloroethane	5.00	3.62	3.85	72.4	77.0	68.0-128			6.16	20
1,1,2-Trichlorotrifluoroethane	5.00	4.86	4.97	97.2	99.4	61.0-139			2.24	20
Tetrachloroethene	5.00	5.08	5.09	102	102	70.0-136			0.197	20
Toluene	5.00	4.35	4.46	87.0	89.2	75.0-121			2.50	20
1,2,3-Trichlorobenzene	5.00	4.28	4.41	85.6	88.2	59.0-139			2.99	20
1,2,4-Trichlorobenzene	5.00	4.89	4.87	97.8	97.4	62.0-137			0.410	20
1,1,1-Trichloroethane	5.00	5.50	5.68	110	114	69.0-126			3.22	20
1,1,2-Trichloroethane	5.00	4.78	4.70	95.6	94.0	78.0-123			1.69	20
Trichloroethene	5.00	5.67	5.61	113	112	76.0-126			1.06	20
Trichlorofluoromethane	5.00	5.49	5.32	110	106	61.0-142			3.15	20
1,2,3-Trichloropropane	5.00	5.20	5.45	104	109	67.0-129			4.69	20
1,2,4-Trimethylbenzene	5.00	5.15	5.28	103	106	70.0-126			2.49	20
1,2,3-Trimethylbenzene	5.00	4.98	5.10	99.6	102	74.0-124			2.38	20
1,3,5-Trimethylbenzene	5.00	5.04	5.08	101	102	73.0-127			0.791	20
Vinyl chloride	5.00	4.14	4.15	82.8	83.0	63.0-134			0.241	20
Xylenes, Total	15.0	14.9	15.4	99.3	103	72.0-127			3.30	20
Ethyl ether	5.00	5.11	5.11	102	102	64.0-137			0.000	20
Tetrahydrofuran	5.00	5.72	7.51	114	150	37.0-146		J3 J4	27.1	24
Iodomethane	25.0	29.0	28.9	116	116	74.0-134			0.345	20
Allyl chloride	25.0	26.5	26.7	106	107	70.0-131			0.752	20
trans-1,4-Dichloro-2-butene	5.00	5.04	5.16	101	103	45.0-143			2.35	20
(S) Toluene-d8				97.0	95.5	75.0-131				
(S) 4-Bromofluorobenzene				95.1	101	67.0-138				
(S) 1,2-Dichloroethane-d4				114	119	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3763683-3 02/25/22 02:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00
Isopropylbenzene	U		0.0345	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3763683-3 02/25/22 02:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Ethyl ether	U		0.0170	0.100
Tetrahydrofuran	U		0.0900	0.500
Iodomethane	U		0.242	0.500
Allyl Chloride	U		0.580	1.00
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
(S) Toluene-d8	97.9			75.0-131
(S) 4-Bromofluorobenzene	94.7			67.0-138
(S) 1,2-Dichloroethane-d4	113			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3763683-1 02/25/22 01:14 • (LCSD) R3763683-2 02/25/22 01:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	40.6	62.9	162	252	10.0-160	J4	J3 J4	43.1	31
Acrylonitrile	25.0	21.8	28.2	87.2	113	45.0-153		J3	25.6	22
Benzene	5.00	4.51	4.53	90.2	90.6	70.0-123			0.442	20
Bromobenzene	5.00	5.15	5.22	103	104	73.0-121			1.35	20
Bromodichloromethane	5.00	5.51	5.54	110	111	73.0-121			0.543	20
Bromoform	5.00	5.61	6.10	112	122	64.0-132			8.37	20
Bromomethane	5.00	4.60	4.84	92.0	96.8	56.0-147			5.08	20
n-Butylbenzene	5.00	4.56	4.52	91.2	90.4	68.0-135			0.881	20
sec-Butylbenzene	5.00	4.77	4.77	95.4	95.4	74.0-130			0.000	20
tert-Butylbenzene	5.00	5.00	4.97	100	99.4	75.0-127			0.602	20
Carbon tetrachloride	5.00	5.78	5.93	116	119	66.0-128			2.56	20
Chlorobenzene	5.00	4.97	5.10	99.4	102	76.0-128			2.58	20
Chlorodibromomethane	5.00	5.52	5.71	110	114	74.0-127			3.38	20
Chloroethane	5.00	4.55	4.58	91.0	91.6	61.0-134			0.657	20
Chloroform	5.00	5.37	5.44	107	109	72.0-123			1.30	20
Chloromethane	5.00	4.37	4.33	87.4	86.6	51.0-138			0.920	20
2-Chlorotoluene	5.00	5.06	4.82	101	96.4	75.0-124			4.86	20
4-Chlorotoluene	5.00	5.10	5.13	102	103	75.0-124			0.587	20
1,2-Dibromo-3-Chloropropane	5.00	4.36	5.01	87.2	100	59.0-130			13.9	20
1,2-Dibromoethane	5.00	4.93	5.05	98.6	101	74.0-128			2.40	20
Dibromomethane	5.00	5.05	5.31	101	106	75.0-122			5.02	20
1,2-Dichlorobenzene	5.00	4.90	5.07	98.0	101	76.0-124			3.41	20
1,3-Dichlorobenzene	5.00	5.09	5.32	102	106	76.0-125			4.42	20
1,4-Dichlorobenzene	5.00	4.97	5.18	99.4	104	77.0-121			4.14	20
Dichlorodifluoromethane	5.00	5.10	4.99	102	99.8	43.0-156			2.18	20
1,1-Dichloroethane	5.00	5.21	5.04	104	101	70.0-127			3.32	20
1,2-Dichloroethane	5.00	5.80	5.94	116	119	65.0-131			2.39	20
1,1-Dichloroethene	5.00	5.05	5.00	101	100	65.0-131			0.995	20
cis-1,2-Dichloroethene	5.00	5.45	5.45	109	109	73.0-125			0.000	20
trans-1,2-Dichloroethene	5.00	5.10	4.98	102	99.6	71.0-125			2.38	20
1,2-Dichloropropane	5.00	4.83	4.88	96.6	97.6	74.0-125			1.03	20
1,1-Dichloropropene	5.00	4.88	4.86	97.6	97.2	73.0-125			0.411	20
1,3-Dichloropropane	5.00	4.87	4.82	97.4	96.4	80.0-125			1.03	20
cis-1,3-Dichloropropene	5.00	5.10	5.16	102	103	76.0-127			1.17	20
trans-1,3-Dichloropropene	5.00	5.39	5.28	108	106	73.0-127			2.06	20
2,2-Dichloropropane	5.00	4.79	4.88	95.8	97.6	59.0-135			1.86	20
Di-isopropyl ether	5.00	4.92	4.98	98.4	99.6	60.0-136			1.21	20
Ethylbenzene	5.00	4.87	5.23	97.4	105	74.0-126			7.13	20
Hexachloro-1,3-butadiene	5.00	5.62	5.47	112	109	57.0-150			2.71	20
Isopropylbenzene	5.00	5.16	5.25	103	105	72.0-127			1.73	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3763683-1 02/25/22 01:14 • (LCSD) R3763683-2 02/25/22 01:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
p-Isopropyltoluene	5.00	5.19	5.26	104	105	72.0-133			1.34	20
2-Butanone (MEK)	25.0	24.9	25.1	99.6	100	30.0-160			0.800	24
Methylene Chloride	5.00	4.74	4.85	94.8	97.0	68.0-123			2.29	20
4-Methyl-2-pentanone (MIBK)	25.0	26.2	27.8	105	111	56.0-143			5.93	20
Methyl tert-butyl ether	5.00	4.96	5.20	99.2	104	66.0-132			4.72	20
Naphthalene	5.00	4.02	4.22	80.4	84.4	59.0-130			4.85	20
n-Propylbenzene	5.00	4.63	4.74	92.6	94.8	74.0-126			2.35	20
Styrene	5.00	5.17	5.11	103	102	72.0-127			1.17	20
1,1,1,2-Tetrachloroethane	5.00	5.38	5.78	108	116	74.0-129			7.17	20
1,1,2,2-Tetrachloroethane	5.00	3.62	3.85	72.4	77.0	68.0-128			6.16	20
1,1,2-Trichlorotrifluoroethane	5.00	4.86	4.97	97.2	99.4	61.0-139			2.24	20
Tetrachloroethene	5.00	5.08	5.09	102	102	70.0-136			0.197	20
Toluene	5.00	4.35	4.46	87.0	89.2	75.0-121			2.50	20
1,2,3-Trichlorobenzene	5.00	4.28	4.41	85.6	88.2	59.0-139			2.99	20
1,2,4-Trichlorobenzene	5.00	4.89	4.87	97.8	97.4	62.0-137			0.410	20
1,1,1-Trichloroethane	5.00	5.50	5.68	110	114	69.0-126			3.22	20
1,1,2-Trichloroethane	5.00	4.78	4.70	95.6	94.0	78.0-123			1.69	20
Trichloroethene	5.00	5.67	5.61	113	112	76.0-126			1.06	20
Trichlorofluoromethane	5.00	5.49	5.32	110	106	61.0-142			3.15	20
1,2,3-Trichloropropane	5.00	5.20	5.45	104	109	67.0-129			4.69	20
1,2,4-Trimethylbenzene	5.00	5.15	5.28	103	106	70.0-126			2.49	20
1,2,3-Trimethylbenzene	5.00	4.98	5.10	99.6	102	74.0-124			2.38	20
1,3,5-Trimethylbenzene	5.00	5.04	5.08	101	102	73.0-127			0.791	20
Vinyl chloride	5.00	4.14	4.15	82.8	83.0	63.0-134			0.241	20
Xylenes, Total	15.0	14.9	15.4	99.3	103	72.0-127			3.30	20
Ethyl ether	5.00	5.11	5.11	102	102	64.0-137			0.000	20
Tetrahydrofuran	5.00	5.72	7.51	114	150	37.0-146		J3 J4	27.1	24
Iodomethane	25.0	29.0	28.9	116	116	74.0-134			0.345	20
Allyl chloride	25.0	26.5	26.7	106	107	70.0-131			0.752	20
trans-1,4-Dichloro-2-butene	5.00	5.04	5.16	101	103	45.0-143			2.35	20
(S) Toluene-d8				97.0	95.5	75.0-131				
(S) 4-Bromofluorobenzene				95.1	101	67.0-138				
(S) 1,2-Dichloroethane-d4				114	119	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

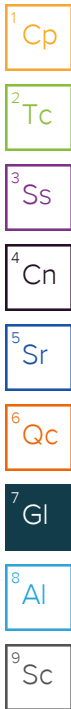
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
C7	The initial calibration verification standard (SSCV) associated with this data responded high.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address:
PES Environmental, Inc.- WA
 2101 Fourth Ave., Suite 1310
 Seattle, WA 98121

Billing Information:
 Attn: Accounts Payable
 2101 4th Avenue, Suite 1310
 Seattle, WA 98121

Pres
 Chk

Report to:
Brian O'Neal/Bill Haldeman

Email To:
 Shannon.McKernan@nv5.com;brian.oneal@nv5

Project Description:
American Linen

City/State
 Collected: **Seattle, WA**

Please Circle:
 PT MT CT ET

Phone: **206-529-3980**

Client Project #
1413.001.02.501.05

Lab Project #
PESENVSWA-ALP

Collected by (print):
HRC

Site/Facility ID #

P.O. #
443018-1413001.05.601

Collected by (signature):
[Signature]
 Immediately
 Packed on Ice N Y

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day
 Date Results Needed
Standard TAT

No.
 of
 Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
MW-964-021722	Grab	GW	66	2/17/22	830	3
MW-170-021722		GW	37		940	3
MW-179-021722		GW	51		1045	3
MW-171-021722		GW	51		1050	3
MW-172-021722		GW	66		1215	3
MW-178-021722		GW	36		1220	3
MW-177-021722		GW	22		1245	3
MW-173-021722		GW	22		1330	3
MW-180-021722		GW	67		1340	3
MW-174-021722		GW	36		1415	3

Analysis / Container / Preservative	
ALK 125mlHDPE-NoPres	
FEG, MNG 250mlHDPE-HNO3	
FEG, MNG 250mlHDPE-HNO3	
NWTPHGX 40mlAmb HCl	
RSK175LL 40mlAmb-HCl	
SULFATE 125mlHDPE-NoPres	
TOC 250mlHDPE-HCl	
V8260ULLC 40mlAmb-HCl	



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 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>

SDG # **L1463646**
E066

Acctnum: **PESENVSWA**
 Template: **T203400**
 Prelogin: **P903823**
 PM: **546 - Jared Starkey**
 PB: **AP 2-8-22**

Shipped Via:
 Remarks Sample # (lab only)

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:
 pH _____ Temp _____
 Flow _____ Other _____
 Samples returned via:
 UPS FedEx Courier _____
 Tracking # **552859471524**

Sample Receipt Checklist	
COC Seal Present/Intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable	
VOA Zero Headspace:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Relinquished by: (Signature) <i>[Signature]</i>	Date: 2/18/22	Time: 1530	Received by: (Signature)	Trip Blank Received: <input checked="" type="checkbox"/> No <input type="checkbox"/> MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: NSA 4°C Bottles Received: 65
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 02/19/22 Time: 0900

If preservation required by Login: Date/Time
 Hold:
 Condition:
 NCF **100**

Company Name/Address: PES Environmental, Inc.- WA 2101 Fourth Ave., Suite 1310 Seattle, WA 98121		Billing Information: Attn: Accounts Payable 2101 4th Avenue, Suite 1310 Seattle, WA 98121		Pres Chk	Analysis / Container / Preservative								Chain of Custody Page <u>2</u> of <u>2</u>	
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Report to: Brian O'Neal/Bill Haldeman		Email To: Shannon.McKernan@nv5.com;brian.oneal@nv5		
Project Description: American Linen		City/State Collected: Seattle, WA	Please Circle: PT MT CT ET	


Phone: 206-529-3980	Client Project # 1413.001.02.501.05	Lab Project # PESENVSWA-ALP
Collected by (print): HRC	Site/Facility ID #	P.O. # 443018-1413001.05.601
Collected by (signature): <i>Brian O'Neal</i>	Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day	Quote # standard TAT
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		Date Results Needed standard TAT

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK 125mlHDPE-NoPres	FEG, MNG 250mlHDPE-HNO3	FEG, MNG 250mlHDPE-HNO3	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	SULFATE 125mlHDPE-NoPres	TOC 250mlHDPE-HCl	V8260ULLC 40mlAmb-HCl	Remarks	Sample # (lab only)
MW106-021822	Grab	GW	135	2/18/22	1020	8	X	X			X	X	X			11
MW-142-021822		GW	45		1100	8	X	X			X	X	X			12
MW-147-021822		GW	75		1150	8	X	X			X	X	X			13
MW-146-021822		GW	45		1330	8	X	X			X	X	X			14
MW-154-021822		GW	30		1440	8	X	X			X	X	X			15
TB-021822	-	GW	-		1500	1							X			16
		GW														
		GW														
		GW														
		GW														

* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____	Remarks:	pH _____ Temp _____ Flow _____ Other _____	Tracking # 552859471524	Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier _____				

Relinquished by: (Signature) <i>Brian O'Neal</i>	Date: 2/18/22	Time: 1530	Received by: (Signature)	Trip Blank Received: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No (HCl / MeOH) TBR	Bottles Received: 3.6 to = 3.6 65	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)			
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 02/19/22	Time: 0900	Hold: Condition: NCF / <input checked="" type="checkbox"/> OK

Company Name/Address: PES Environmental, Inc.- WA 2101 Fourth Ave., Suite 1310 Seattle, WA 98121		Billing Information: Attn: Accounts Payable 2101 4th Avenue, Suite 1310 Seattle, WA 98121		Pres Chk	Analysis / Container / Preservative								Chain of Custody Page <u>2</u> of <u>2</u>	
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Report to: Brian O'Neal/Bill Haldeman		Email To: Shannon.McKernan@nv5.com;brian.oneal@nv5		Project Description: American Linen		City/State Collected: Seattle, WA		Please Circle: PT MT CT ET		 MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 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			
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Phone: 206-529-3980	Client Project # 1413.001.02.501.05	Lab Project # PESENVSWA-ALP	Collected by (print): HRC		Site/Facility ID #	P.O. # 443018-1413001.05.601	Collected by (signature): <i>Brian O'Neal</i>		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day	Quote # standard TAT	Date Results Needed	No. of Cntrs	SDG # L1463646	
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>			Immediatly											Table #

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK 125mlHDPE-NoPres	FEG, MNG 250mlHDPE-HNO3	FEG, MNG 250mlHDPE-HNO3	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	SULFATE 125mlHDPE-NoPres	TOC 250mlHDPE-HCl	V8260ULLC 40mlAmb-HCl	Remarks	Sample # (lab only)
MW106-021822	Grab	GW	135	2/18/22	1020	8	X	X			X	X	X	X		11
MW-142-021822		GW	45		1100	8	X	X			X	X	X	X		12
MW-147-021822		GW	75		1150	8	X	X			X	X	X	X		13
MW-146-021822		GW	45		1330	8	X	X			X	X	X	X		14
MW-154-021822		GW	30		1440	8	X	X			X	X	X	X		15
TB-021822	-	GW	-		1500	1								X		16
		GW														
		GW														
		GW														
		GW														

* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other	Remarks: Updates per sem 2/23/22	pH _____ Temp _____ Flow _____ Other _____	Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Tracking # 552859471524	Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
--	--	---	---	--------------------------------	--

Relinquished by: (Signature) <i>Brian O'Neal</i>	Date: 2/18/22	Time: 1530	Received by: (Signature)	Trip Blank Received: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No (HCl / MeOH) TBR	Bottles Received: 3.6 to = 3.6 65	If preservation required by Login: Date/Time	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:	Hold:	Condition: NCF / <input checked="" type="checkbox"/> OK
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 02/19/22	Time: 0900		

PES Environmental, Inc.- WA

Sample Delivery Group: L1465487
Samples Received: 02/25/2022
Project Number: 1413.001.02.501
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:



Jared Starkey
Project Manager

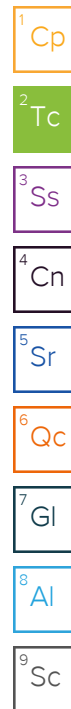
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

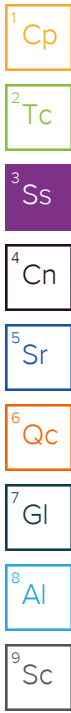
Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	6
Sr: Sample Results	7
MW-165-022222 L1465487-01	7
MW-176-022222 L1465487-02	9
MW-166-02222 L1465487-03	11
MW-167-02222 L1465487-04	13
MW-175-022222 L1465487-05	15
MW-168-022222 L1465487-06	17
MW121-022222 L1465487-07	19
MW-965-022322 L1465487-08	21
R-MW6-022322 L1465487-09	23
MW-161-022322 L1465487-10	25
MW104-022322 L1465487-11	27
MW107-022322 L1465487-12	29
MW-160-022322 L1465487-13	31
MW-144R-022322 L1465487-14	33
FMW-141-022322 L1465487-15	35
TB-022322 L1465487-16	37
Qc: Quality Control Summary	39
Wet Chemistry by Method 300.0	39
Wet Chemistry by Method 9060A	40
Metals (ICPMS) by Method 6020B	41
Volatile Organic Compounds (GC) by Method NWTPHGX	42
Volatile Organic Compounds (GC) by Method RSK175	44
Volatile Organic Compounds (GC/MS) by Method 8260D	48
Gl: Glossary of Terms	61
Al: Accreditations & Locations	62
Sc: Sample Chain of Custody	63



SAMPLE SUMMARY

MW-165-022222 L1465487-01 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by RM/HC				Collected date/time 02/22/22 11:05	Received date/time 02/25/22 09:30	
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1824612	1	02/28/22 11:19	02/28/22 11:19	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1825410	25	03/01/22 22:20	03/01/22 22:20	DWR	Mt. Juliet, TN



MW-176-022222 L1465487-02 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by RM/HC				Collected date/time 02/22/22 11:07	Received date/time 02/25/22 09:30	
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1824612	1	02/28/22 07:09	02/28/22 07:09	JAH	Mt. Juliet, TN

MW-166-022222 L1465487-03 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by RM/HC				Collected date/time 02/22/22 12:00	Received date/time 02/25/22 09:30	
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1824612	250	02/28/22 10:40	02/28/22 10:40	JAH	Mt. Juliet, TN

MW-167-022222 L1465487-04 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by RM/HC				Collected date/time 02/22/22 12:50	Received date/time 02/25/22 09:30	
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1824612	1	02/28/22 07:28	02/28/22 07:28	JAH	Mt. Juliet, TN

MW-175-022222 L1465487-05 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by RM/HC				Collected date/time 02/22/22 13:00	Received date/time 02/25/22 09:30	
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1824612	1	02/28/22 07:47	02/28/22 07:47	JAH	Mt. Juliet, TN

MW-168-022222 L1465487-06 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by RM/HC				Collected date/time 02/22/22 13:55	Received date/time 02/25/22 09:30	
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1824612	1	02/28/22 08:07	02/28/22 08:07	JAH	Mt. Juliet, TN

MW121-022222 L1465487-07 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by RM/HC				Collected date/time 02/22/22 14:30	Received date/time 02/25/22 09:30	
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1824605	1	02/28/22 00:02	02/28/22 00:02	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1824612	1	02/28/22 08:26	02/28/22 08:26	JAH	Mt. Juliet, TN

MW-965-022322 L1465487-08 GW

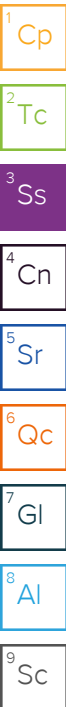
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by RM/HC				Collected date/time 02/23/22 08:30	Received date/time 02/25/22 09:30	
Wet Chemistry by Method 300.0	WG1824101	1	02/26/22 18:40	02/26/22 18:40	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1825365	1	03/02/22 12:56	03/02/22 12:56	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1824399	1	03/01/22 09:11	03/02/22 02:48	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1825347	1	03/02/22 15:45	03/02/22 15:45	DBB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1824612	1	02/28/22 08:45	02/28/22 08:45	JAH	Mt. Juliet, TN

SAMPLE SUMMARY

R-MW6-022322 L1465487-09 GW

Collected by: RM/HC Collected date/time: 02/23/22 10:03 Received date/time: 02/25/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1824101	10	02/26/22 20:15	02/26/22 20:15	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1825365	1	03/02/22 14:16	03/02/22 14:16	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1824399	1	03/01/22 09:11	03/02/22 02:51	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1825347	1	03/02/22 15:55	03/02/22 15:55	DBB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1826357	10	03/03/22 16:14	03/03/22 16:14	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1824612	1	02/28/22 09:04	02/28/22 09:04	JAH	Mt. Juliet, TN



MW-161-022322 L1465487-10 GW

Collected by: RM/HC Collected date/time: 02/23/22 10:30 Received date/time: 02/25/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1824101	1	02/26/22 20:34	02/26/22 20:34	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1825365	1	03/02/22 14:47	03/02/22 14:47	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1824399	1	03/01/22 09:11	03/02/22 02:54	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1825347	1	03/02/22 15:59	03/02/22 15:59	DBB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1824612	1	02/28/22 09:24	02/28/22 09:24	JAH	Mt. Juliet, TN

MW104-022322 L1465487-11 GW

Collected by: RM/HC Collected date/time: 02/23/22 11:50 Received date/time: 02/25/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1824101	1	02/26/22 20:53	02/26/22 20:53	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1825365	1	03/02/22 15:14	03/02/22 15:14	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1824399	1	03/01/22 09:11	03/02/22 02:57	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1825348	1	03/03/22 10:49	03/03/22 10:49	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1824612	1	02/28/22 09:43	02/28/22 09:43	JAH	Mt. Juliet, TN

MW107-022322 L1465487-12 GW

Collected by: RM/HC Collected date/time: 02/23/22 12:10 Received date/time: 02/25/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1824101	1	02/26/22 21:12	02/26/22 21:12	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1825365	1	03/02/22 15:41	03/02/22 15:41	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1824399	1	03/01/22 09:11	03/02/22 03:07	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1825348	1	03/03/22 10:52	03/03/22 10:52	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1826357	10	03/03/22 16:17	03/03/22 16:17	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1825410	1	03/01/22 22:01	03/01/22 22:01	DWR	Mt. Juliet, TN

MW-160-022322 L1465487-13 GW

Collected by: RM/HC Collected date/time: 02/23/22 13:45 Received date/time: 02/25/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1824101	1	02/26/22 21:31	02/26/22 21:31	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1825365	1	03/02/22 17:51	03/02/22 17:51	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1824399	1	03/01/22 09:11	03/02/22 03:11	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1825348	1	03/03/22 10:55	03/03/22 10:55	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1824612	1	02/28/22 10:02	02/28/22 10:02	JAH	Mt. Juliet, TN

SAMPLE SUMMARY

MW-144R-022322 L1465487-14 GW

Collected by RM/HC Collected date/time 02/23/22 13:55 Received date/time 02/25/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1824101	1	02/26/22 21:50	02/26/22 21:50	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1825365	1	03/02/22 18:23	03/02/22 18:23	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1824399	1	03/01/22 09:11	03/02/22 03:14	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1825348	1	03/03/22 10:58	03/03/22 10:58	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1826357	10	03/03/22 16:20	03/03/22 16:20	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1824612	1	02/28/22 10:21	02/28/22 10:21	JAH	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

FMW-141-022322 L1465487-15 GW

Collected by RM/HC Collected date/time 02/23/22 15:45 Received date/time 02/25/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1825305	1	03/01/22 23:36	03/01/22 23:36	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1826259	5	03/03/22 01:27	03/03/22 01:27	BMB	Mt. Juliet, TN

TB-022322 L1465487-16 GW

Collected by RM/HC Collected date/time 02/23/22 00:00 Received date/time 02/25/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1824911	1	03/01/22 09:14	03/01/22 09:14	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1825305	1	03/01/22 22:58	03/01/22 22:58	DWR	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jared Starkey
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.68	C5	0.548	1.00	1	02/28/2022 11:19	WG1824612
Acrylonitrile	U	C3	0.0760	0.500	1	02/28/2022 11:19	WG1824612
Benzene	0.183		0.0160	0.0400	1	02/28/2022 11:19	WG1824612
Bromobenzene	U		0.0420	0.500	1	02/28/2022 11:19	WG1824612
Bromodichloromethane	U		0.0315	0.100	1	02/28/2022 11:19	WG1824612
Bromoform	U		0.239	1.00	1	02/28/2022 11:19	WG1824612
Bromomethane	U		0.148	0.500	1	02/28/2022 11:19	WG1824612
n-Butylbenzene	U		0.153	0.500	1	02/28/2022 11:19	WG1824612
sec-Butylbenzene	U		0.101	0.500	1	02/28/2022 11:19	WG1824612
tert-Butylbenzene	U		0.0620	0.200	1	02/28/2022 11:19	WG1824612
Carbon tetrachloride	U		0.0432	0.200	1	02/28/2022 11:19	WG1824612
Chlorobenzene	U		0.0229	0.100	1	02/28/2022 11:19	WG1824612
Chlorodibromomethane	U		0.0180	0.100	1	02/28/2022 11:19	WG1824612
Chloroethane	U		0.0432	0.200	1	02/28/2022 11:19	WG1824612
Chloroform	U		0.0166	0.100	1	02/28/2022 11:19	WG1824612
Chloromethane	U		0.0556	0.500	1	02/28/2022 11:19	WG1824612
2-Chlorotoluene	U		0.0368	0.100	1	02/28/2022 11:19	WG1824612
4-Chlorotoluene	U		0.0452	0.200	1	02/28/2022 11:19	WG1824612
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	02/28/2022 11:19	WG1824612
1,2-Dibromoethane	U		0.0210	0.100	1	02/28/2022 11:19	WG1824612
Dibromomethane	U		0.0400	0.200	1	02/28/2022 11:19	WG1824612
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/28/2022 11:19	WG1824612
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/28/2022 11:19	WG1824612
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/28/2022 11:19	WG1824612
Dichlorodifluoromethane	U		0.0327	0.100	1	02/28/2022 11:19	WG1824612
1,1-Dichloroethane	U		0.0230	0.100	1	02/28/2022 11:19	WG1824612
1,2-Dichloroethane	U		0.0190	0.100	1	02/28/2022 11:19	WG1824612
1,1-Dichloroethene	1.02		0.0200	0.100	1	02/28/2022 11:19	WG1824612
cis-1,2-Dichloroethene	1040		0.690	2.50	25	03/01/2022 22:20	WG1825410
trans-1,2-Dichloroethene	26.8		0.0572	0.200	1	02/28/2022 11:19	WG1824612
1,2-Dichloropropane	U		0.0508	0.200	1	02/28/2022 11:19	WG1824612
1,1-Dichloropropene	U		0.0280	0.100	1	02/28/2022 11:19	WG1824612
1,3-Dichloropropane	U		0.0700	0.200	1	02/28/2022 11:19	WG1824612
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/28/2022 11:19	WG1824612
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/28/2022 11:19	WG1824612
2,2-Dichloropropane	U		0.0317	0.100	1	02/28/2022 11:19	WG1824612
Di-isopropyl ether	U		0.0140	0.0400	1	02/28/2022 11:19	WG1824612
Ethylbenzene	0.0340	J	0.0212	0.100	1	02/28/2022 11:19	WG1824612
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/28/2022 11:19	WG1824612
Isopropylbenzene	0.0610	J	0.0345	0.100	1	02/28/2022 11:19	WG1824612
p-Isopropyltoluene	U		0.0932	0.200	1	02/28/2022 11:19	WG1824612
2-Butanone (MEK)	U		0.500	1.00	1	02/28/2022 11:19	WG1824612
Methylene Chloride	U		0.265	1.00	1	02/28/2022 11:19	WG1824612
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/28/2022 11:19	WG1824612
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/28/2022 11:19	WG1824612
Naphthalene	U	C3	0.124	0.500	1	02/28/2022 11:19	WG1824612
n-Propylbenzene	U		0.0472	0.200	1	02/28/2022 11:19	WG1824612
Styrene	U		0.109	0.500	1	02/28/2022 11:19	WG1824612
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/28/2022 11:19	WG1824612
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/28/2022 11:19	WG1824612
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/28/2022 11:19	WG1824612
Tetrachloroethene	U		0.0280	0.100	1	02/28/2022 11:19	WG1824612
Toluene	0.501		0.0500	0.200	1	02/28/2022 11:19	WG1824612
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/28/2022 11:19	WG1824612
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/28/2022 11:19	WG1824612
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/28/2022 11:19	WG1824612

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/28/2022 11:19	WG1824612
Trichloroethene	0.153		0.0160	0.0400	1	02/28/2022 11:19	WG1824612
Trichlorofluoromethane	U		0.0200	0.100	1	02/28/2022 11:19	WG1824612
1,2,3-Trichloropropane	U		0.204	0.500	1	02/28/2022 11:19	WG1824612
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/28/2022 11:19	WG1824612
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/28/2022 11:19	WG1824612
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/28/2022 11:19	WG1824612
Vinyl chloride	719		0.682	2.50	25	03/01/2022 22:20	WG1825410
Xylenes, Total	U		0.191	0.260	1	02/28/2022 11:19	WG1824612
Ethyl Ether	U		0.0170	0.100	1	02/28/2022 11:19	WG1824612
Tetrahydrofuran	6.18		0.0900	0.500	1	02/28/2022 11:19	WG1824612
Iodomethane	U		0.242	0.500	1	02/28/2022 11:19	WG1824612
Allyl chloride	U		0.580	1.00	1	02/28/2022 11:19	WG1824612
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/28/2022 11:19	WG1824612
(S) Toluene-d8	98.6			75.0-131		02/28/2022 11:19	WG1824612
(S) Toluene-d8	106			75.0-131		03/01/2022 22:20	WG1825410
(S) 4-Bromofluorobenzene	96.1			67.0-138		02/28/2022 11:19	WG1824612
(S) 4-Bromofluorobenzene	98.4			67.0-138		03/01/2022 22:20	WG1825410
(S) 1,2-Dichloroethane-d4	113			70.0-130		02/28/2022 11:19	WG1824612
(S) 1,2-Dichloroethane-d4	105			70.0-130		03/01/2022 22:20	WG1825410

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

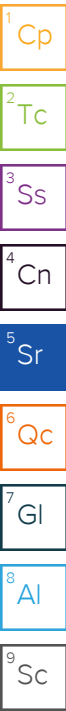
7
Gl

8
Al

9
Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	02/28/2022 07:09	WG1824612
Acrylonitrile	U	C3	0.0760	0.500	1	02/28/2022 07:09	WG1824612
Benzene	0.0220	J	0.0160	0.0400	1	02/28/2022 07:09	WG1824612
Bromobenzene	U		0.0420	0.500	1	02/28/2022 07:09	WG1824612
Bromodichloromethane	U		0.0315	0.100	1	02/28/2022 07:09	WG1824612
Bromoform	U		0.239	1.00	1	02/28/2022 07:09	WG1824612
Bromomethane	U		0.148	0.500	1	02/28/2022 07:09	WG1824612
n-Butylbenzene	U		0.153	0.500	1	02/28/2022 07:09	WG1824612
sec-Butylbenzene	U		0.101	0.500	1	02/28/2022 07:09	WG1824612
tert-Butylbenzene	U		0.0620	0.200	1	02/28/2022 07:09	WG1824612
Carbon tetrachloride	U		0.0432	0.200	1	02/28/2022 07:09	WG1824612
Chlorobenzene	U		0.0229	0.100	1	02/28/2022 07:09	WG1824612
Chlorodibromomethane	U		0.0180	0.100	1	02/28/2022 07:09	WG1824612
Chloroethane	0.337		0.0432	0.200	1	02/28/2022 07:09	WG1824612
Chloroform	U		0.0166	0.100	1	02/28/2022 07:09	WG1824612
Chloromethane	U		0.0556	0.500	1	02/28/2022 07:09	WG1824612
2-Chlorotoluene	U		0.0368	0.100	1	02/28/2022 07:09	WG1824612
4-Chlorotoluene	U		0.0452	0.200	1	02/28/2022 07:09	WG1824612
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	02/28/2022 07:09	WG1824612
1,2-Dibromoethane	U		0.0210	0.100	1	02/28/2022 07:09	WG1824612
Dibromomethane	U		0.0400	0.200	1	02/28/2022 07:09	WG1824612
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/28/2022 07:09	WG1824612
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/28/2022 07:09	WG1824612
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/28/2022 07:09	WG1824612
Dichlorodifluoromethane	U		0.0327	0.100	1	02/28/2022 07:09	WG1824612
1,1-Dichloroethane	U		0.0230	0.100	1	02/28/2022 07:09	WG1824612
1,2-Dichloroethane	U		0.0190	0.100	1	02/28/2022 07:09	WG1824612
1,1-Dichloroethene	U		0.0200	0.100	1	02/28/2022 07:09	WG1824612
cis-1,2-Dichloroethene	0.452		0.0276	0.100	1	02/28/2022 07:09	WG1824612
trans-1,2-Dichloroethene	1.52		0.0572	0.200	1	02/28/2022 07:09	WG1824612
1,2-Dichloropropane	U		0.0508	0.200	1	02/28/2022 07:09	WG1824612
1,1-Dichloropropene	U		0.0280	0.100	1	02/28/2022 07:09	WG1824612
1,3-Dichloropropane	U		0.0700	0.200	1	02/28/2022 07:09	WG1824612
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/28/2022 07:09	WG1824612
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/28/2022 07:09	WG1824612
2,2-Dichloropropane	U		0.0317	0.100	1	02/28/2022 07:09	WG1824612
Di-isopropyl ether	U		0.0140	0.0400	1	02/28/2022 07:09	WG1824612
Ethylbenzene	U		0.0212	0.100	1	02/28/2022 07:09	WG1824612
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/28/2022 07:09	WG1824612
Isopropylbenzene	U		0.0345	0.100	1	02/28/2022 07:09	WG1824612
p-Isopropyltoluene	U		0.0932	0.200	1	02/28/2022 07:09	WG1824612
2-Butanone (MEK)	U		0.500	1.00	1	02/28/2022 07:09	WG1824612
Methylene Chloride	U		0.265	1.00	1	02/28/2022 07:09	WG1824612
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/28/2022 07:09	WG1824612
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/28/2022 07:09	WG1824612
Naphthalene	U	C3	0.124	0.500	1	02/28/2022 07:09	WG1824612
n-Propylbenzene	U		0.0472	0.200	1	02/28/2022 07:09	WG1824612
Styrene	U		0.109	0.500	1	02/28/2022 07:09	WG1824612
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/28/2022 07:09	WG1824612
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/28/2022 07:09	WG1824612
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/28/2022 07:09	WG1824612
Tetrachloroethene	U		0.0280	0.100	1	02/28/2022 07:09	WG1824612
Toluene	0.0520	J	0.0500	0.200	1	02/28/2022 07:09	WG1824612
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/28/2022 07:09	WG1824612
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/28/2022 07:09	WG1824612
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/28/2022 07:09	WG1824612



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/28/2022 07:09	WG1824612
Trichloroethene	0.0320	J	0.0160	0.0400	1	02/28/2022 07:09	WG1824612
Trichlorofluoromethane	U		0.0200	0.100	1	02/28/2022 07:09	WG1824612
1,2,3-Trichloropropane	U		0.204	0.500	1	02/28/2022 07:09	WG1824612
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/28/2022 07:09	WG1824612
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/28/2022 07:09	WG1824612
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/28/2022 07:09	WG1824612
Vinyl chloride	3.88		0.0273	0.100	1	02/28/2022 07:09	WG1824612
Xylenes, Total	U		0.191	0.260	1	02/28/2022 07:09	WG1824612
Ethyl Ether	U		0.0170	0.100	1	02/28/2022 07:09	WG1824612
Tetrahydrofuran	U		0.0900	0.500	1	02/28/2022 07:09	WG1824612
Iodomethane	U		0.242	0.500	1	02/28/2022 07:09	WG1824612
Allyl chloride	U		0.580	1.00	1	02/28/2022 07:09	WG1824612
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/28/2022 07:09	WG1824612
(S) Toluene-d8	95.3			75.0-131		02/28/2022 07:09	WG1824612
(S) 4-Bromofluorobenzene	97.1			67.0-138		02/28/2022 07:09	WG1824612
(S) 1,2-Dichloroethane-d4	111			70.0-130		02/28/2022 07:09	WG1824612

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		137	250	250	02/28/2022 10:40	WG1824612
Acrylonitrile	U	C3	19.0	125	250	02/28/2022 10:40	WG1824612
Benzene	U		4.00	10.0	250	02/28/2022 10:40	WG1824612
Bromobenzene	U		10.5	125	250	02/28/2022 10:40	WG1824612
Bromodichloromethane	U		7.88	25.0	250	02/28/2022 10:40	WG1824612
Bromoform	U		59.8	250	250	02/28/2022 10:40	WG1824612
Bromomethane	U		37.0	125	250	02/28/2022 10:40	WG1824612
n-Butylbenzene	U		38.3	125	250	02/28/2022 10:40	WG1824612
sec-Butylbenzene	U		25.3	125	250	02/28/2022 10:40	WG1824612
tert-Butylbenzene	U		15.5	50.0	250	02/28/2022 10:40	WG1824612
Carbon tetrachloride	U		10.8	50.0	250	02/28/2022 10:40	WG1824612
Chlorobenzene	U		5.73	25.0	250	02/28/2022 10:40	WG1824612
Chlorodibromomethane	U		4.50	25.0	250	02/28/2022 10:40	WG1824612
Chloroethane	U		10.8	50.0	250	02/28/2022 10:40	WG1824612
Chloroform	U		4.15	25.0	250	02/28/2022 10:40	WG1824612
Chloromethane	U		13.9	125	250	02/28/2022 10:40	WG1824612
2-Chlorotoluene	U		9.20	25.0	250	02/28/2022 10:40	WG1824612
4-Chlorotoluene	U		11.3	50.0	250	02/28/2022 10:40	WG1824612
1,2-Dibromo-3-Chloropropane	U	C3	51.0	250	250	02/28/2022 10:40	WG1824612
1,2-Dibromoethane	U		5.25	25.0	250	02/28/2022 10:40	WG1824612
Dibromomethane	U		10.0	50.0	250	02/28/2022 10:40	WG1824612
1,2-Dichlorobenzene	U		14.5	50.0	250	02/28/2022 10:40	WG1824612
1,3-Dichlorobenzene	U		17.0	50.0	250	02/28/2022 10:40	WG1824612
1,4-Dichlorobenzene	U		19.7	50.0	250	02/28/2022 10:40	WG1824612
Dichlorodifluoromethane	U		8.18	25.0	250	02/28/2022 10:40	WG1824612
1,1-Dichloroethane	U		5.75	25.0	250	02/28/2022 10:40	WG1824612
1,2-Dichloroethane	U		4.75	25.0	250	02/28/2022 10:40	WG1824612
1,1-Dichloroethene	15.0	J	5.00	25.0	250	02/28/2022 10:40	WG1824612
cis-1,2-Dichloroethene	11300		6.90	25.0	250	02/28/2022 10:40	WG1824612
trans-1,2-Dichloroethene	64.3		14.3	50.0	250	02/28/2022 10:40	WG1824612
1,2-Dichloropropane	U		12.7	50.0	250	02/28/2022 10:40	WG1824612
1,1-Dichloropropene	U		7.00	25.0	250	02/28/2022 10:40	WG1824612
1,3-Dichloropropane	U		17.5	50.0	250	02/28/2022 10:40	WG1824612
cis-1,3-Dichloropropene	U		6.78	25.0	250	02/28/2022 10:40	WG1824612
trans-1,3-Dichloropropene	U		15.3	50.0	250	02/28/2022 10:40	WG1824612
2,2-Dichloropropane	U		7.93	25.0	250	02/28/2022 10:40	WG1824612
Di-isopropyl ether	U		3.50	10.0	250	02/28/2022 10:40	WG1824612
Ethylbenzene	U		5.30	25.0	250	02/28/2022 10:40	WG1824612
Hexachloro-1,3-butadiene	U		127	250	250	02/28/2022 10:40	WG1824612
Isopropylbenzene	U		8.63	25.0	250	02/28/2022 10:40	WG1824612
p-Isopropyltoluene	U		23.3	50.0	250	02/28/2022 10:40	WG1824612
2-Butanone (MEK)	U		125	250	250	02/28/2022 10:40	WG1824612
Methylene Chloride	U		66.3	250	250	02/28/2022 10:40	WG1824612
4-Methyl-2-pentanone (MIBK)	U		100	250	250	02/28/2022 10:40	WG1824612
Methyl tert-butyl ether	U		2.95	10.0	250	02/28/2022 10:40	WG1824612
Naphthalene	U	C3	31.0	125	250	02/28/2022 10:40	WG1824612
n-Propylbenzene	U		11.8	50.0	250	02/28/2022 10:40	WG1824612
Styrene	U		27.3	125	250	02/28/2022 10:40	WG1824612
1,1,1,2-Tetrachloroethane	U		5.00	25.0	250	02/28/2022 10:40	WG1824612
1,1,2,2-Tetrachloroethane	U		3.90	25.0	250	02/28/2022 10:40	WG1824612
1,1,2-Trichlorotrifluoroethane	U		6.75	25.0	250	02/28/2022 10:40	WG1824612
Tetrachloroethene	U		7.00	25.0	250	02/28/2022 10:40	WG1824612
Toluene	U		12.5	50.0	250	02/28/2022 10:40	WG1824612
1,2,3-Trichlorobenzene	U		6.25	125	250	02/28/2022 10:40	WG1824612
1,2,4-Trichlorobenzene	U		48.3	125	250	02/28/2022 10:40	WG1824612
1,1,1-Trichloroethane	U		2.75	25.0	250	02/28/2022 10:40	WG1824612

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		8.83	25.0	250	02/28/2022 10:40	WG1824612
Trichloroethene	U		4.00	10.0	250	02/28/2022 10:40	WG1824612
Trichlorofluoromethane	U		5.00	25.0	250	02/28/2022 10:40	WG1824612
1,2,3-Trichloropropane	U		51.0	125	250	02/28/2022 10:40	WG1824612
1,2,4-Trimethylbenzene	U		11.6	50.0	250	02/28/2022 10:40	WG1824612
1,2,3-Trimethylbenzene	U		11.5	50.0	250	02/28/2022 10:40	WG1824612
1,3,5-Trimethylbenzene	U		10.8	50.0	250	02/28/2022 10:40	WG1824612
Vinyl chloride	3050		6.82	25.0	250	02/28/2022 10:40	WG1824612
Xylenes, Total	U		47.8	65.0	250	02/28/2022 10:40	WG1824612
Ethyl Ether	U		4.25	25.0	250	02/28/2022 10:40	WG1824612
Tetrahydrofuran	U		22.5	125	250	02/28/2022 10:40	WG1824612
Iodomethane	U		60.5	125	250	02/28/2022 10:40	WG1824612
Allyl chloride	U		145	250	250	02/28/2022 10:40	WG1824612
Trans-1,4-Dichloro-2-butene	U		14.0	50.0	250	02/28/2022 10:40	WG1824612
(S) Toluene-d8	98.0			75.0-131		02/28/2022 10:40	WG1824612
(S) 4-Bromofluorobenzene	93.9			67.0-138		02/28/2022 10:40	WG1824612
(S) 1,2-Dichloroethane-d4	118			70.0-130		02/28/2022 10:40	WG1824612

1
Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

8
Al

9
Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	02/28/2022 07:28	WG1824612
Acrylonitrile	U	C3	0.0760	0.500	1	02/28/2022 07:28	WG1824612
Benzene	U		0.0160	0.0400	1	02/28/2022 07:28	WG1824612
Bromobenzene	U		0.0420	0.500	1	02/28/2022 07:28	WG1824612
Bromodichloromethane	U		0.0315	0.100	1	02/28/2022 07:28	WG1824612
Bromoform	U		0.239	1.00	1	02/28/2022 07:28	WG1824612
Bromomethane	U		0.148	0.500	1	02/28/2022 07:28	WG1824612
n-Butylbenzene	U		0.153	0.500	1	02/28/2022 07:28	WG1824612
sec-Butylbenzene	U		0.101	0.500	1	02/28/2022 07:28	WG1824612
tert-Butylbenzene	U		0.0620	0.200	1	02/28/2022 07:28	WG1824612
Carbon tetrachloride	U		0.0432	0.200	1	02/28/2022 07:28	WG1824612
Chlorobenzene	U		0.0229	0.100	1	02/28/2022 07:28	WG1824612
Chlorodibromomethane	U		0.0180	0.100	1	02/28/2022 07:28	WG1824612
Chloroethane	U		0.0432	0.200	1	02/28/2022 07:28	WG1824612
Chloroform	U		0.0166	0.100	1	02/28/2022 07:28	WG1824612
Chloromethane	U		0.0556	0.500	1	02/28/2022 07:28	WG1824612
2-Chlorotoluene	U		0.0368	0.100	1	02/28/2022 07:28	WG1824612
4-Chlorotoluene	U		0.0452	0.200	1	02/28/2022 07:28	WG1824612
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	02/28/2022 07:28	WG1824612
1,2-Dibromoethane	U		0.0210	0.100	1	02/28/2022 07:28	WG1824612
Dibromomethane	U		0.0400	0.200	1	02/28/2022 07:28	WG1824612
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/28/2022 07:28	WG1824612
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/28/2022 07:28	WG1824612
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/28/2022 07:28	WG1824612
Dichlorodifluoromethane	U		0.0327	0.100	1	02/28/2022 07:28	WG1824612
1,1-Dichloroethane	U		0.0230	0.100	1	02/28/2022 07:28	WG1824612
1,2-Dichloroethane	U		0.0190	0.100	1	02/28/2022 07:28	WG1824612
1,1-Dichloroethene	U		0.0200	0.100	1	02/28/2022 07:28	WG1824612
cis-1,2-Dichloroethene	0.220		0.0276	0.100	1	02/28/2022 07:28	WG1824612
trans-1,2-Dichloroethene	U		0.0572	0.200	1	02/28/2022 07:28	WG1824612
1,2-Dichloropropane	U		0.0508	0.200	1	02/28/2022 07:28	WG1824612
1,1-Dichloropropene	U		0.0280	0.100	1	02/28/2022 07:28	WG1824612
1,3-Dichloropropane	U		0.0700	0.200	1	02/28/2022 07:28	WG1824612
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/28/2022 07:28	WG1824612
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/28/2022 07:28	WG1824612
2,2-Dichloropropane	U		0.0317	0.100	1	02/28/2022 07:28	WG1824612
Di-isopropyl ether	U		0.0140	0.0400	1	02/28/2022 07:28	WG1824612
Ethylbenzene	U		0.0212	0.100	1	02/28/2022 07:28	WG1824612
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/28/2022 07:28	WG1824612
Isopropylbenzene	U		0.0345	0.100	1	02/28/2022 07:28	WG1824612
p-Isopropyltoluene	U		0.0932	0.200	1	02/28/2022 07:28	WG1824612
2-Butanone (MEK)	U		0.500	1.00	1	02/28/2022 07:28	WG1824612
Methylene Chloride	U		0.265	1.00	1	02/28/2022 07:28	WG1824612
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/28/2022 07:28	WG1824612
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/28/2022 07:28	WG1824612
Naphthalene	U	C3	0.124	0.500	1	02/28/2022 07:28	WG1824612
n-Propylbenzene	U		0.0472	0.200	1	02/28/2022 07:28	WG1824612
Styrene	U		0.109	0.500	1	02/28/2022 07:28	WG1824612
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/28/2022 07:28	WG1824612
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/28/2022 07:28	WG1824612
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/28/2022 07:28	WG1824612
Tetrachloroethene	U		0.0280	0.100	1	02/28/2022 07:28	WG1824612
Toluene	U		0.0500	0.200	1	02/28/2022 07:28	WG1824612
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/28/2022 07:28	WG1824612
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/28/2022 07:28	WG1824612
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/28/2022 07:28	WG1824612

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/28/2022 07:28	WG1824612
Trichloroethene	U		0.0160	0.0400	1	02/28/2022 07:28	WG1824612
Trichlorofluoromethane	U		0.0200	0.100	1	02/28/2022 07:28	WG1824612
1,2,3-Trichloropropane	U		0.204	0.500	1	02/28/2022 07:28	WG1824612
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/28/2022 07:28	WG1824612
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/28/2022 07:28	WG1824612
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/28/2022 07:28	WG1824612
Vinyl chloride	0.144		0.0273	0.100	1	02/28/2022 07:28	WG1824612
Xylenes, Total	U		0.191	0.260	1	02/28/2022 07:28	WG1824612
Ethyl Ether	U		0.0170	0.100	1	02/28/2022 07:28	WG1824612
Tetrahydrofuran	U		0.0900	0.500	1	02/28/2022 07:28	WG1824612
Iodomethane	U		0.242	0.500	1	02/28/2022 07:28	WG1824612
Allyl chloride	U		0.580	1.00	1	02/28/2022 07:28	WG1824612
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/28/2022 07:28	WG1824612
(S) Toluene-d8	98.0			75.0-131		02/28/2022 07:28	WG1824612
(S) 4-Bromofluorobenzene	96.4			67.0-138		02/28/2022 07:28	WG1824612
(S) 1,2-Dichloroethane-d4	118			70.0-130		02/28/2022 07:28	WG1824612

1
Cp

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Tc

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Ss

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Cn

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Sr

6
Qc

7
Gl

8
Al

9
Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.56	C5	0.548	1.00	1	02/28/2022 07:47	WG1824612
Acrylonitrile	U	C3	0.0760	0.500	1	02/28/2022 07:47	WG1824612
Benzene	0.0300	J	0.0160	0.0400	1	02/28/2022 07:47	WG1824612
Bromobenzene	U		0.0420	0.500	1	02/28/2022 07:47	WG1824612
Bromodichloromethane	U		0.0315	0.100	1	02/28/2022 07:47	WG1824612
Bromoform	U		0.239	1.00	1	02/28/2022 07:47	WG1824612
Bromomethane	U		0.148	0.500	1	02/28/2022 07:47	WG1824612
n-Butylbenzene	U		0.153	0.500	1	02/28/2022 07:47	WG1824612
sec-Butylbenzene	U		0.101	0.500	1	02/28/2022 07:47	WG1824612
tert-Butylbenzene	U		0.0620	0.200	1	02/28/2022 07:47	WG1824612
Carbon tetrachloride	U		0.0432	0.200	1	02/28/2022 07:47	WG1824612
Chlorobenzene	U		0.0229	0.100	1	02/28/2022 07:47	WG1824612
Chlorodibromomethane	U		0.0180	0.100	1	02/28/2022 07:47	WG1824612
Chloroethane	0.390		0.0432	0.200	1	02/28/2022 07:47	WG1824612
Chloroform	U		0.0166	0.100	1	02/28/2022 07:47	WG1824612
Chloromethane	U		0.0556	0.500	1	02/28/2022 07:47	WG1824612
2-Chlorotoluene	U		0.0368	0.100	1	02/28/2022 07:47	WG1824612
4-Chlorotoluene	U		0.0452	0.200	1	02/28/2022 07:47	WG1824612
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	02/28/2022 07:47	WG1824612
1,2-Dibromoethane	U		0.0210	0.100	1	02/28/2022 07:47	WG1824612
Dibromomethane	U		0.0400	0.200	1	02/28/2022 07:47	WG1824612
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/28/2022 07:47	WG1824612
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/28/2022 07:47	WG1824612
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/28/2022 07:47	WG1824612
Dichlorodifluoromethane	U		0.0327	0.100	1	02/28/2022 07:47	WG1824612
1,1-Dichloroethane	U		0.0230	0.100	1	02/28/2022 07:47	WG1824612
1,2-Dichloroethane	U		0.0190	0.100	1	02/28/2022 07:47	WG1824612
1,1-Dichloroethene	U		0.0200	0.100	1	02/28/2022 07:47	WG1824612
cis-1,2-Dichloroethene	0.146		0.0276	0.100	1	02/28/2022 07:47	WG1824612
trans-1,2-Dichloroethene	2.14		0.0572	0.200	1	02/28/2022 07:47	WG1824612
1,2-Dichloropropane	U		0.0508	0.200	1	02/28/2022 07:47	WG1824612
1,1-Dichloropropene	U		0.0280	0.100	1	02/28/2022 07:47	WG1824612
1,3-Dichloropropane	U		0.0700	0.200	1	02/28/2022 07:47	WG1824612
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/28/2022 07:47	WG1824612
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/28/2022 07:47	WG1824612
2,2-Dichloropropane	U		0.0317	0.100	1	02/28/2022 07:47	WG1824612
Di-isopropyl ether	U		0.0140	0.0400	1	02/28/2022 07:47	WG1824612
Ethylbenzene	U		0.0212	0.100	1	02/28/2022 07:47	WG1824612
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/28/2022 07:47	WG1824612
Isopropylbenzene	U		0.0345	0.100	1	02/28/2022 07:47	WG1824612
p-Isopropyltoluene	U		0.0932	0.200	1	02/28/2022 07:47	WG1824612
2-Butanone (MEK)	U		0.500	1.00	1	02/28/2022 07:47	WG1824612
Methylene Chloride	U		0.265	1.00	1	02/28/2022 07:47	WG1824612
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/28/2022 07:47	WG1824612
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/28/2022 07:47	WG1824612
Naphthalene	U	C3	0.124	0.500	1	02/28/2022 07:47	WG1824612
n-Propylbenzene	U		0.0472	0.200	1	02/28/2022 07:47	WG1824612
Styrene	U		0.109	0.500	1	02/28/2022 07:47	WG1824612
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/28/2022 07:47	WG1824612
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/28/2022 07:47	WG1824612
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/28/2022 07:47	WG1824612
Tetrachloroethene	U		0.0280	0.100	1	02/28/2022 07:47	WG1824612
Toluene	U		0.0500	0.200	1	02/28/2022 07:47	WG1824612
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/28/2022 07:47	WG1824612
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/28/2022 07:47	WG1824612
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/28/2022 07:47	WG1824612

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/28/2022 07:47	WG1824612
Trichloroethene	U		0.0160	0.0400	1	02/28/2022 07:47	WG1824612
Trichlorofluoromethane	U		0.0200	0.100	1	02/28/2022 07:47	WG1824612
1,2,3-Trichloropropane	U		0.204	0.500	1	02/28/2022 07:47	WG1824612
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/28/2022 07:47	WG1824612
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/28/2022 07:47	WG1824612
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/28/2022 07:47	WG1824612
Vinyl chloride	1.00		0.0273	0.100	1	02/28/2022 07:47	WG1824612
Xylenes, Total	U		0.191	0.260	1	02/28/2022 07:47	WG1824612
Ethyl Ether	U		0.0170	0.100	1	02/28/2022 07:47	WG1824612
Tetrahydrofuran	0.202	U	0.0900	0.500	1	02/28/2022 07:47	WG1824612
Iodomethane	U		0.242	0.500	1	02/28/2022 07:47	WG1824612
Allyl chloride	U		0.580	1.00	1	02/28/2022 07:47	WG1824612
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/28/2022 07:47	WG1824612
(S) Toluene-d8	98.6			75.0-131		02/28/2022 07:47	WG1824612
(S) 4-Bromofluorobenzene	98.2			67.0-138		02/28/2022 07:47	WG1824612
(S) 1,2-Dichloroethane-d4	115			70.0-130		02/28/2022 07:47	WG1824612

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.76	C5	0.548	1.00	1	02/28/2022 08:07	WG1824612
Acrylonitrile	U	C3	0.0760	0.500	1	02/28/2022 08:07	WG1824612
Benzene	U		0.0160	0.0400	1	02/28/2022 08:07	WG1824612
Bromobenzene	U		0.0420	0.500	1	02/28/2022 08:07	WG1824612
Bromodichloromethane	U		0.0315	0.100	1	02/28/2022 08:07	WG1824612
Bromoform	U		0.239	1.00	1	02/28/2022 08:07	WG1824612
Bromomethane	U		0.148	0.500	1	02/28/2022 08:07	WG1824612
n-Butylbenzene	U		0.153	0.500	1	02/28/2022 08:07	WG1824612
sec-Butylbenzene	U		0.101	0.500	1	02/28/2022 08:07	WG1824612
tert-Butylbenzene	U		0.0620	0.200	1	02/28/2022 08:07	WG1824612
Carbon tetrachloride	U		0.0432	0.200	1	02/28/2022 08:07	WG1824612
Chlorobenzene	U		0.0229	0.100	1	02/28/2022 08:07	WG1824612
Chlorodibromomethane	U		0.0180	0.100	1	02/28/2022 08:07	WG1824612
Chloroethane	U		0.0432	0.200	1	02/28/2022 08:07	WG1824612
Chloroform	U		0.0166	0.100	1	02/28/2022 08:07	WG1824612
Chloromethane	U		0.0556	0.500	1	02/28/2022 08:07	WG1824612
2-Chlorotoluene	U		0.0368	0.100	1	02/28/2022 08:07	WG1824612
4-Chlorotoluene	U		0.0452	0.200	1	02/28/2022 08:07	WG1824612
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	02/28/2022 08:07	WG1824612
1,2-Dibromoethane	U		0.0210	0.100	1	02/28/2022 08:07	WG1824612
Dibromomethane	U		0.0400	0.200	1	02/28/2022 08:07	WG1824612
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/28/2022 08:07	WG1824612
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/28/2022 08:07	WG1824612
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/28/2022 08:07	WG1824612
Dichlorodifluoromethane	U		0.0327	0.100	1	02/28/2022 08:07	WG1824612
1,1-Dichloroethane	U		0.0230	0.100	1	02/28/2022 08:07	WG1824612
1,2-Dichloroethane	U		0.0190	0.100	1	02/28/2022 08:07	WG1824612
1,1-Dichloroethene	U		0.0200	0.100	1	02/28/2022 08:07	WG1824612
cis-1,2-Dichloroethene	5.43		0.0276	0.100	1	02/28/2022 08:07	WG1824612
trans-1,2-Dichloroethene	0.0700	J	0.0572	0.200	1	02/28/2022 08:07	WG1824612
1,2-Dichloropropane	U		0.0508	0.200	1	02/28/2022 08:07	WG1824612
1,1-Dichloropropene	U		0.0280	0.100	1	02/28/2022 08:07	WG1824612
1,3-Dichloropropane	U		0.0700	0.200	1	02/28/2022 08:07	WG1824612
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/28/2022 08:07	WG1824612
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/28/2022 08:07	WG1824612
2,2-Dichloropropane	U		0.0317	0.100	1	02/28/2022 08:07	WG1824612
Di-isopropyl ether	U		0.0140	0.0400	1	02/28/2022 08:07	WG1824612
Ethylbenzene	U		0.0212	0.100	1	02/28/2022 08:07	WG1824612
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/28/2022 08:07	WG1824612
Isopropylbenzene	U		0.0345	0.100	1	02/28/2022 08:07	WG1824612
p-Isopropyltoluene	U		0.0932	0.200	1	02/28/2022 08:07	WG1824612
2-Butanone (MEK)	U		0.500	1.00	1	02/28/2022 08:07	WG1824612
Methylene Chloride	U		0.265	1.00	1	02/28/2022 08:07	WG1824612
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/28/2022 08:07	WG1824612
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/28/2022 08:07	WG1824612
Naphthalene	U	C3	0.124	0.500	1	02/28/2022 08:07	WG1824612
n-Propylbenzene	U		0.0472	0.200	1	02/28/2022 08:07	WG1824612
Styrene	U		0.109	0.500	1	02/28/2022 08:07	WG1824612
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/28/2022 08:07	WG1824612
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/28/2022 08:07	WG1824612
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/28/2022 08:07	WG1824612
Tetrachloroethene	U		0.0280	0.100	1	02/28/2022 08:07	WG1824612
Toluene	0.0740	J	0.0500	0.200	1	02/28/2022 08:07	WG1824612
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/28/2022 08:07	WG1824612
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/28/2022 08:07	WG1824612
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/28/2022 08:07	WG1824612

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/28/2022 08:07	WG1824612
Trichloroethene	U		0.0160	0.0400	1	02/28/2022 08:07	WG1824612
Trichlorofluoromethane	U		0.0200	0.100	1	02/28/2022 08:07	WG1824612
1,2,3-Trichloropropane	U		0.204	0.500	1	02/28/2022 08:07	WG1824612
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/28/2022 08:07	WG1824612
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/28/2022 08:07	WG1824612
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/28/2022 08:07	WG1824612
Vinyl chloride	0.932		0.0273	0.100	1	02/28/2022 08:07	WG1824612
Xylenes, Total	U		0.191	0.260	1	02/28/2022 08:07	WG1824612
Ethyl Ether	U		0.0170	0.100	1	02/28/2022 08:07	WG1824612
Tetrahydrofuran	0.441	U	0.0900	0.500	1	02/28/2022 08:07	WG1824612
Iodomethane	U		0.242	0.500	1	02/28/2022 08:07	WG1824612
Allyl chloride	U		0.580	1.00	1	02/28/2022 08:07	WG1824612
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/28/2022 08:07	WG1824612
(S) Toluene-d8	99.6			75.0-131		02/28/2022 08:07	WG1824612
(S) 4-Bromofluorobenzene	96.4			67.0-138		02/28/2022 08:07	WG1824612
(S) 1,2-Dichloroethane-d4	113			70.0-130		02/28/2022 08:07	WG1824612

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	52.9	<u>B</u> <u>J</u>	31.6	100	1	02/28/2022 00:02	WG1824605
(S) a,a,a-Trifluorotoluene(FID)	108			78.0-120		02/28/2022 00:02	WG1824605

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.25	<u>C5</u>	0.548	1.00	1	02/28/2022 08:26	WG1824612
Acrylonitrile	U	<u>C3</u>	0.0760	0.500	1	02/28/2022 08:26	WG1824612
Benzene	0.0230	<u>J</u>	0.0160	0.0400	1	02/28/2022 08:26	WG1824612
Bromobenzene	U		0.0420	0.500	1	02/28/2022 08:26	WG1824612
Bromodichloromethane	U		0.0315	0.100	1	02/28/2022 08:26	WG1824612
Bromoform	U		0.239	1.00	1	02/28/2022 08:26	WG1824612
Bromomethane	U		0.148	0.500	1	02/28/2022 08:26	WG1824612
n-Butylbenzene	U		0.153	0.500	1	02/28/2022 08:26	WG1824612
sec-Butylbenzene	U		0.101	0.500	1	02/28/2022 08:26	WG1824612
tert-Butylbenzene	U		0.0620	0.200	1	02/28/2022 08:26	WG1824612
Carbon tetrachloride	U		0.0432	0.200	1	02/28/2022 08:26	WG1824612
Chlorobenzene	U		0.0229	0.100	1	02/28/2022 08:26	WG1824612
Chlorodibromomethane	U		0.0180	0.100	1	02/28/2022 08:26	WG1824612
Chloroethane	U		0.0432	0.200	1	02/28/2022 08:26	WG1824612
Chloroform	U		0.0166	0.100	1	02/28/2022 08:26	WG1824612
Chloromethane	U		0.0556	0.500	1	02/28/2022 08:26	WG1824612
2-Chlorotoluene	U		0.0368	0.100	1	02/28/2022 08:26	WG1824612
4-Chlorotoluene	U		0.0452	0.200	1	02/28/2022 08:26	WG1824612
1,2-Dibromo-3-Chloropropane	U	<u>C3</u>	0.204	1.00	1	02/28/2022 08:26	WG1824612
1,2-Dibromoethane	U		0.0210	0.100	1	02/28/2022 08:26	WG1824612
Dibromomethane	U		0.0400	0.200	1	02/28/2022 08:26	WG1824612
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/28/2022 08:26	WG1824612
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/28/2022 08:26	WG1824612
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/28/2022 08:26	WG1824612
Dichlorodifluoromethane	U		0.0327	0.100	1	02/28/2022 08:26	WG1824612
1,1-Dichloroethane	0.0260	<u>J</u>	0.0230	0.100	1	02/28/2022 08:26	WG1824612
1,2-Dichloroethane	U		0.0190	0.100	1	02/28/2022 08:26	WG1824612
1,1-Dichloroethene	U		0.0200	0.100	1	02/28/2022 08:26	WG1824612
cis-1,2-Dichloroethene	0.168		0.0276	0.100	1	02/28/2022 08:26	WG1824612
trans-1,2-Dichloroethene	U		0.0572	0.200	1	02/28/2022 08:26	WG1824612
1,2-Dichloropropane	U		0.0508	0.200	1	02/28/2022 08:26	WG1824612
1,1-Dichloropropene	U		0.0280	0.100	1	02/28/2022 08:26	WG1824612
1,3-Dichloropropane	U		0.0700	0.200	1	02/28/2022 08:26	WG1824612
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/28/2022 08:26	WG1824612
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/28/2022 08:26	WG1824612
2,2-Dichloropropane	U		0.0317	0.100	1	02/28/2022 08:26	WG1824612
Di-isopropyl ether	U		0.0140	0.0400	1	02/28/2022 08:26	WG1824612
Ethylbenzene	U		0.0212	0.100	1	02/28/2022 08:26	WG1824612
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/28/2022 08:26	WG1824612
Isopropylbenzene	U		0.0345	0.100	1	02/28/2022 08:26	WG1824612
p-Isopropyltoluene	U		0.0932	0.200	1	02/28/2022 08:26	WG1824612
2-Butanone (MEK)	U		0.500	1.00	1	02/28/2022 08:26	WG1824612
Methylene Chloride	U		0.265	1.00	1	02/28/2022 08:26	WG1824612
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/28/2022 08:26	WG1824612
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/28/2022 08:26	WG1824612
Naphthalene	U	<u>C3</u>	0.124	0.500	1	02/28/2022 08:26	WG1824612
n-Propylbenzene	U		0.0472	0.200	1	02/28/2022 08:26	WG1824612
Styrene	U		0.109	0.500	1	02/28/2022 08:26	WG1824612

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/28/2022 08:26	WG1824612
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/28/2022 08:26	WG1824612
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/28/2022 08:26	WG1824612
Tetrachloroethene	U		0.0280	0.100	1	02/28/2022 08:26	WG1824612
Toluene	U		0.0500	0.200	1	02/28/2022 08:26	WG1824612
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/28/2022 08:26	WG1824612
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/28/2022 08:26	WG1824612
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/28/2022 08:26	WG1824612
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/28/2022 08:26	WG1824612
Trichloroethene	U		0.0160	0.0400	1	02/28/2022 08:26	WG1824612
Trichlorofluoromethane	U		0.0200	0.100	1	02/28/2022 08:26	WG1824612
1,2,3-Trichloropropane	U		0.204	0.500	1	02/28/2022 08:26	WG1824612
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/28/2022 08:26	WG1824612
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/28/2022 08:26	WG1824612
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/28/2022 08:26	WG1824612
Vinyl chloride	2.96		0.0273	0.100	1	02/28/2022 08:26	WG1824612
Xylenes, Total	U		0.191	0.260	1	02/28/2022 08:26	WG1824612
Ethyl Ether	0.172		0.0170	0.100	1	02/28/2022 08:26	WG1824612
Tetrahydrofuran	1.83		0.0900	0.500	1	02/28/2022 08:26	WG1824612
Iodomethane	U		0.242	0.500	1	02/28/2022 08:26	WG1824612
Allyl chloride	U		0.580	1.00	1	02/28/2022 08:26	WG1824612
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/28/2022 08:26	WG1824612
(S) Toluene-d8	100			75.0-131		02/28/2022 08:26	WG1824612
(S) 4-Bromofluorobenzene	101			67.0-138		02/28/2022 08:26	WG1824612
(S) 1,2-Dichloroethane-d4	114			70.0-130		02/28/2022 08:26	WG1824612

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	8680		594	5000	1	02/26/2022 18:40	WG1824101

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2010	<u>B</u>	102	1000	1	03/02/2022 12:56	WG1825365

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	348		28.1	100	1	03/02/2022 02:48	WG1824399
Manganese	692		0.704	5.00	1	03/02/2022 02:48	WG1824399

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	105		0.287	0.678	1	03/02/2022 15:45	WG1825347
Ethane	0.519	<u>J</u>	0.296	1.29	1	03/02/2022 15:45	WG1825347
Ethene	0.580	<u>J</u>	0.422	1.27	1	03/02/2022 15:45	WG1825347

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	02/28/2022 08:45	WG1824612
Acrylonitrile	U	<u>C3</u>	0.0760	0.500	1	02/28/2022 08:45	WG1824612
Benzene	U		0.0160	0.0400	1	02/28/2022 08:45	WG1824612
Bromobenzene	U		0.0420	0.500	1	02/28/2022 08:45	WG1824612
Bromodichloromethane	U		0.0315	0.100	1	02/28/2022 08:45	WG1824612
Bromoform	U		0.239	1.00	1	02/28/2022 08:45	WG1824612
Bromomethane	U		0.148	0.500	1	02/28/2022 08:45	WG1824612
n-Butylbenzene	U		0.153	0.500	1	02/28/2022 08:45	WG1824612
sec-Butylbenzene	U		0.101	0.500	1	02/28/2022 08:45	WG1824612
tert-Butylbenzene	U		0.0620	0.200	1	02/28/2022 08:45	WG1824612
Carbon tetrachloride	U		0.0432	0.200	1	02/28/2022 08:45	WG1824612
Chlorobenzene	U		0.0229	0.100	1	02/28/2022 08:45	WG1824612
Chlorodibromomethane	U		0.0180	0.100	1	02/28/2022 08:45	WG1824612
Chloroethane	0.449		0.0432	0.200	1	02/28/2022 08:45	WG1824612
Chloroform	U		0.0166	0.100	1	02/28/2022 08:45	WG1824612
Chloromethane	U		0.0556	0.500	1	02/28/2022 08:45	WG1824612
2-Chlorotoluene	U		0.0368	0.100	1	02/28/2022 08:45	WG1824612
4-Chlorotoluene	U		0.0452	0.200	1	02/28/2022 08:45	WG1824612
1,2-Dibromo-3-Chloropropane	U	<u>C3</u>	0.204	1.00	1	02/28/2022 08:45	WG1824612
1,2-Dibromoethane	U		0.0210	0.100	1	02/28/2022 08:45	WG1824612
Dibromomethane	U		0.0400	0.200	1	02/28/2022 08:45	WG1824612
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/28/2022 08:45	WG1824612
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/28/2022 08:45	WG1824612
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/28/2022 08:45	WG1824612
Dichlorodifluoromethane	U		0.0327	0.100	1	02/28/2022 08:45	WG1824612
1,1-Dichloroethane	U		0.0230	0.100	1	02/28/2022 08:45	WG1824612
1,2-Dichloroethane	U		0.0190	0.100	1	02/28/2022 08:45	WG1824612
1,1-Dichloroethene	1.93		0.0200	0.100	1	02/28/2022 08:45	WG1824612
cis-1,2-Dichloroethene	45.1		0.0276	0.100	1	02/28/2022 08:45	WG1824612
trans-1,2-Dichloroethene	0.625		0.0572	0.200	1	02/28/2022 08:45	WG1824612
1,2-Dichloropropane	U		0.0508	0.200	1	02/28/2022 08:45	WG1824612

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	02/28/2022 08:45	WG1824612
1,3-Dichloropropane	U		0.0700	0.200	1	02/28/2022 08:45	WG1824612
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/28/2022 08:45	WG1824612
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/28/2022 08:45	WG1824612
2,2-Dichloropropane	U		0.0317	0.100	1	02/28/2022 08:45	WG1824612
Di-isopropyl ether	U		0.0140	0.0400	1	02/28/2022 08:45	WG1824612
Ethylbenzene	U		0.0212	0.100	1	02/28/2022 08:45	WG1824612
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/28/2022 08:45	WG1824612
Isopropylbenzene	U		0.0345	0.100	1	02/28/2022 08:45	WG1824612
p-Isopropyltoluene	U		0.0932	0.200	1	02/28/2022 08:45	WG1824612
2-Butanone (MEK)	U		0.500	1.00	1	02/28/2022 08:45	WG1824612
Methylene Chloride	U		0.265	1.00	1	02/28/2022 08:45	WG1824612
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/28/2022 08:45	WG1824612
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/28/2022 08:45	WG1824612
Naphthalene	U	C3	0.124	0.500	1	02/28/2022 08:45	WG1824612
n-Propylbenzene	U		0.0472	0.200	1	02/28/2022 08:45	WG1824612
Styrene	U		0.109	0.500	1	02/28/2022 08:45	WG1824612
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/28/2022 08:45	WG1824612
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/28/2022 08:45	WG1824612
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/28/2022 08:45	WG1824612
Tetrachloroethene	1.13		0.0280	0.100	1	02/28/2022 08:45	WG1824612
Toluene	U		0.0500	0.200	1	02/28/2022 08:45	WG1824612
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/28/2022 08:45	WG1824612
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/28/2022 08:45	WG1824612
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/28/2022 08:45	WG1824612
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/28/2022 08:45	WG1824612
Trichloroethene	15.4		0.0160	0.0400	1	02/28/2022 08:45	WG1824612
Trichlorofluoromethane	U		0.0200	0.100	1	02/28/2022 08:45	WG1824612
1,2,3-Trichloropropane	U		0.204	0.500	1	02/28/2022 08:45	WG1824612
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/28/2022 08:45	WG1824612
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/28/2022 08:45	WG1824612
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/28/2022 08:45	WG1824612
Vinyl chloride	1.91		0.0273	0.100	1	02/28/2022 08:45	WG1824612
Xylenes, Total	U		0.191	0.260	1	02/28/2022 08:45	WG1824612
Ethyl Ether	U		0.0170	0.100	1	02/28/2022 08:45	WG1824612
Tetrahydrofuran	U		0.0900	0.500	1	02/28/2022 08:45	WG1824612
Iodomethane	U		0.242	0.500	1	02/28/2022 08:45	WG1824612
Allyl chloride	U		0.580	1.00	1	02/28/2022 08:45	WG1824612
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/28/2022 08:45	WG1824612
(S) Toluene-d8	98.6			75.0-131		02/28/2022 08:45	WG1824612
(S) 4-Bromofluorobenzene	95.4			67.0-138		02/28/2022 08:45	WG1824612
(S) 1,2-Dichloroethane-d4	116			70.0-130		02/28/2022 08:45	WG1824612

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	69600		5940	50000	10	02/26/2022 20:15	WG1824101

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	7850		102	1000	1	03/02/2022 14:16	WG1825365

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	11700		28.1	100	1	03/02/2022 02:51	WG1824399
Manganese	6350		0.704	5.00	1	03/02/2022 02:51	WG1824399

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	12700		2.87	6.78	10	03/03/2022 16:14	WG1826357
Ethane	3.37		0.296	1.29	1	03/02/2022 15:55	WG1825347
Ethene	U		0.422	1.27	1	03/02/2022 15:55	WG1825347

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.63	C5	0.548	1.00	1	02/28/2022 09:04	WG1824612
Acrylonitrile	U	C3	0.0760	0.500	1	02/28/2022 09:04	WG1824612
Benzene	0.0430		0.0160	0.0400	1	02/28/2022 09:04	WG1824612
Bromobenzene	U		0.0420	0.500	1	02/28/2022 09:04	WG1824612
Bromodichloromethane	U		0.0315	0.100	1	02/28/2022 09:04	WG1824612
Bromoform	U		0.239	1.00	1	02/28/2022 09:04	WG1824612
Bromomethane	U		0.148	0.500	1	02/28/2022 09:04	WG1824612
n-Butylbenzene	U		0.153	0.500	1	02/28/2022 09:04	WG1824612
sec-Butylbenzene	U		0.101	0.500	1	02/28/2022 09:04	WG1824612
tert-Butylbenzene	U		0.0620	0.200	1	02/28/2022 09:04	WG1824612
Carbon tetrachloride	U		0.0432	0.200	1	02/28/2022 09:04	WG1824612
Chlorobenzene	U		0.0229	0.100	1	02/28/2022 09:04	WG1824612
Chlorodibromomethane	U		0.0180	0.100	1	02/28/2022 09:04	WG1824612
Chloroethane	U		0.0432	0.200	1	02/28/2022 09:04	WG1824612
Chloroform	U		0.0166	0.100	1	02/28/2022 09:04	WG1824612
Chloromethane	U		0.0556	0.500	1	02/28/2022 09:04	WG1824612
2-Chlorotoluene	U		0.0368	0.100	1	02/28/2022 09:04	WG1824612
4-Chlorotoluene	U		0.0452	0.200	1	02/28/2022 09:04	WG1824612
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	02/28/2022 09:04	WG1824612
1,2-Dibromoethane	U		0.0210	0.100	1	02/28/2022 09:04	WG1824612
Dibromomethane	U		0.0400	0.200	1	02/28/2022 09:04	WG1824612
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/28/2022 09:04	WG1824612
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/28/2022 09:04	WG1824612
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/28/2022 09:04	WG1824612
Dichlorodifluoromethane	U		0.0327	0.100	1	02/28/2022 09:04	WG1824612
1,1-Dichloroethane	U		0.0230	0.100	1	02/28/2022 09:04	WG1824612
1,2-Dichloroethane	U		0.0190	0.100	1	02/28/2022 09:04	WG1824612
1,1-Dichloroethene	0.0480	J	0.0200	0.100	1	02/28/2022 09:04	WG1824612
cis-1,2-Dichloroethene	5.15		0.0276	0.100	1	02/28/2022 09:04	WG1824612
trans-1,2-Dichloroethene	U		0.0572	0.200	1	02/28/2022 09:04	WG1824612
1,2-Dichloropropane	U		0.0508	0.200	1	02/28/2022 09:04	WG1824612

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	02/28/2022 09:04	WG1824612
1,3-Dichloropropane	U		0.0700	0.200	1	02/28/2022 09:04	WG1824612
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/28/2022 09:04	WG1824612
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/28/2022 09:04	WG1824612
2,2-Dichloropropane	U		0.0317	0.100	1	02/28/2022 09:04	WG1824612
Di-isopropyl ether	U		0.0140	0.0400	1	02/28/2022 09:04	WG1824612
Ethylbenzene	U		0.0212	0.100	1	02/28/2022 09:04	WG1824612
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/28/2022 09:04	WG1824612
Isopropylbenzene	U		0.0345	0.100	1	02/28/2022 09:04	WG1824612
p-Isopropyltoluene	U		0.0932	0.200	1	02/28/2022 09:04	WG1824612
2-Butanone (MEK)	U		0.500	1.00	1	02/28/2022 09:04	WG1824612
Methylene Chloride	U		0.265	1.00	1	02/28/2022 09:04	WG1824612
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/28/2022 09:04	WG1824612
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/28/2022 09:04	WG1824612
Naphthalene	U	C3	0.124	0.500	1	02/28/2022 09:04	WG1824612
n-Propylbenzene	U		0.0472	0.200	1	02/28/2022 09:04	WG1824612
Styrene	U		0.109	0.500	1	02/28/2022 09:04	WG1824612
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/28/2022 09:04	WG1824612
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/28/2022 09:04	WG1824612
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/28/2022 09:04	WG1824612
Tetrachloroethene	0.0470	U	0.0280	0.100	1	02/28/2022 09:04	WG1824612
Toluene	U		0.0500	0.200	1	02/28/2022 09:04	WG1824612
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/28/2022 09:04	WG1824612
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/28/2022 09:04	WG1824612
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/28/2022 09:04	WG1824612
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/28/2022 09:04	WG1824612
Trichloroethene	0.268		0.0160	0.0400	1	02/28/2022 09:04	WG1824612
Trichlorofluoromethane	U		0.0200	0.100	1	02/28/2022 09:04	WG1824612
1,2,3-Trichloropropane	U		0.204	0.500	1	02/28/2022 09:04	WG1824612
1,2,4-Trimethylbenzene	0.0680	U	0.0464	0.200	1	02/28/2022 09:04	WG1824612
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/28/2022 09:04	WG1824612
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/28/2022 09:04	WG1824612
Vinyl chloride	1.27		0.0273	0.100	1	02/28/2022 09:04	WG1824612
Xylenes, Total	U		0.191	0.260	1	02/28/2022 09:04	WG1824612
Ethyl Ether	U		0.0170	0.100	1	02/28/2022 09:04	WG1824612
Tetrahydrofuran	14.3		0.0900	0.500	1	02/28/2022 09:04	WG1824612
Iodomethane	U		0.242	0.500	1	02/28/2022 09:04	WG1824612
Allyl chloride	U		0.580	1.00	1	02/28/2022 09:04	WG1824612
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/28/2022 09:04	WG1824612
(S) Toluene-d8	99.0			75.0-131		02/28/2022 09:04	WG1824612
(S) 4-Bromofluorobenzene	95.7			67.0-138		02/28/2022 09:04	WG1824612
(S) 1,2-Dichloroethane-d4	115			70.0-130		02/28/2022 09:04	WG1824612

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	8480		594	5000	1	02/26/2022 20:34	WG1824101

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2030	<u>B</u>	102	1000	1	03/02/2022 14:47	WG1825365

Metals (ICPMS) by Method 6020B

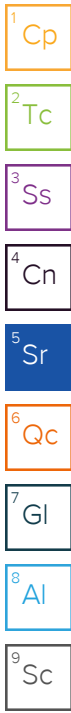
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	328		28.1	100	1	03/02/2022 02:54	WG1824399
Manganese	711		0.704	5.00	1	03/02/2022 02:54	WG1824399

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	84.9		0.287	0.678	1	03/02/2022 15:59	WG1825347
Ethane	0.435	<u>J</u>	0.296	1.29	1	03/02/2022 15:59	WG1825347
Ethene	U		0.422	1.27	1	03/02/2022 15:59	WG1825347

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	02/28/2022 09:24	WG1824612
Acrylonitrile	U	<u>C3</u>	0.0760	0.500	1	02/28/2022 09:24	WG1824612
Benzene	U		0.0160	0.0400	1	02/28/2022 09:24	WG1824612
Bromobenzene	U		0.0420	0.500	1	02/28/2022 09:24	WG1824612
Bromodichloromethane	U		0.0315	0.100	1	02/28/2022 09:24	WG1824612
Bromoform	U		0.239	1.00	1	02/28/2022 09:24	WG1824612
Bromomethane	U		0.148	0.500	1	02/28/2022 09:24	WG1824612
n-Butylbenzene	U		0.153	0.500	1	02/28/2022 09:24	WG1824612
sec-Butylbenzene	U		0.101	0.500	1	02/28/2022 09:24	WG1824612
tert-Butylbenzene	U		0.0620	0.200	1	02/28/2022 09:24	WG1824612
Carbon tetrachloride	U		0.0432	0.200	1	02/28/2022 09:24	WG1824612
Chlorobenzene	U		0.0229	0.100	1	02/28/2022 09:24	WG1824612
Chlorodibromomethane	U		0.0180	0.100	1	02/28/2022 09:24	WG1824612
Chloroethane	0.501		0.0432	0.200	1	02/28/2022 09:24	WG1824612
Chloroform	U		0.0166	0.100	1	02/28/2022 09:24	WG1824612
Chloromethane	U		0.0556	0.500	1	02/28/2022 09:24	WG1824612
2-Chlorotoluene	U		0.0368	0.100	1	02/28/2022 09:24	WG1824612
4-Chlorotoluene	U		0.0452	0.200	1	02/28/2022 09:24	WG1824612
1,2-Dibromo-3-Chloropropane	U	<u>C3</u>	0.204	1.00	1	02/28/2022 09:24	WG1824612
1,2-Dibromoethane	U		0.0210	0.100	1	02/28/2022 09:24	WG1824612
Dibromomethane	U		0.0400	0.200	1	02/28/2022 09:24	WG1824612
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/28/2022 09:24	WG1824612
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/28/2022 09:24	WG1824612
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/28/2022 09:24	WG1824612
Dichlorodifluoromethane	U		0.0327	0.100	1	02/28/2022 09:24	WG1824612
1,1-Dichloroethane	U		0.0230	0.100	1	02/28/2022 09:24	WG1824612
1,2-Dichloroethane	U		0.0190	0.100	1	02/28/2022 09:24	WG1824612
1,1-Dichloroethene	1.98		0.0200	0.100	1	02/28/2022 09:24	WG1824612
cis-1,2-Dichloroethene	45.4		0.0276	0.100	1	02/28/2022 09:24	WG1824612
trans-1,2-Dichloroethene	0.602		0.0572	0.200	1	02/28/2022 09:24	WG1824612
1,2-Dichloropropane	U		0.0508	0.200	1	02/28/2022 09:24	WG1824612



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	02/28/2022 09:24	WG1824612
1,3-Dichloropropane	U		0.0700	0.200	1	02/28/2022 09:24	WG1824612
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/28/2022 09:24	WG1824612
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/28/2022 09:24	WG1824612
2,2-Dichloropropane	U		0.0317	0.100	1	02/28/2022 09:24	WG1824612
Di-isopropyl ether	U		0.0140	0.0400	1	02/28/2022 09:24	WG1824612
Ethylbenzene	U		0.0212	0.100	1	02/28/2022 09:24	WG1824612
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/28/2022 09:24	WG1824612
Isopropylbenzene	U		0.0345	0.100	1	02/28/2022 09:24	WG1824612
p-Isopropyltoluene	U		0.0932	0.200	1	02/28/2022 09:24	WG1824612
2-Butanone (MEK)	U		0.500	1.00	1	02/28/2022 09:24	WG1824612
Methylene Chloride	U		0.265	1.00	1	02/28/2022 09:24	WG1824612
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/28/2022 09:24	WG1824612
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/28/2022 09:24	WG1824612
Naphthalene	U	C3	0.124	0.500	1	02/28/2022 09:24	WG1824612
n-Propylbenzene	U		0.0472	0.200	1	02/28/2022 09:24	WG1824612
Styrene	U		0.109	0.500	1	02/28/2022 09:24	WG1824612
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/28/2022 09:24	WG1824612
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/28/2022 09:24	WG1824612
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/28/2022 09:24	WG1824612
Tetrachloroethene	0.886		0.0280	0.100	1	02/28/2022 09:24	WG1824612
Toluene	U		0.0500	0.200	1	02/28/2022 09:24	WG1824612
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/28/2022 09:24	WG1824612
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/28/2022 09:24	WG1824612
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/28/2022 09:24	WG1824612
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/28/2022 09:24	WG1824612
Trichloroethene	15.9		0.0160	0.0400	1	02/28/2022 09:24	WG1824612
Trichlorofluoromethane	U		0.0200	0.100	1	02/28/2022 09:24	WG1824612
1,2,3-Trichloropropane	U		0.204	0.500	1	02/28/2022 09:24	WG1824612
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/28/2022 09:24	WG1824612
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/28/2022 09:24	WG1824612
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/28/2022 09:24	WG1824612
Vinyl chloride	1.95		0.0273	0.100	1	02/28/2022 09:24	WG1824612
Xylenes, Total	U		0.191	0.260	1	02/28/2022 09:24	WG1824612
Ethyl Ether	U		0.0170	0.100	1	02/28/2022 09:24	WG1824612
Tetrahydrofuran	U		0.0900	0.500	1	02/28/2022 09:24	WG1824612
Iodomethane	U		0.242	0.500	1	02/28/2022 09:24	WG1824612
Allyl chloride	U		0.580	1.00	1	02/28/2022 09:24	WG1824612
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/28/2022 09:24	WG1824612
(S) Toluene-d8	98.4			75.0-131		02/28/2022 09:24	WG1824612
(S) 4-Bromofluorobenzene	90.9			67.0-138		02/28/2022 09:24	WG1824612
(S) 1,2-Dichloroethane-d4	117			70.0-130		02/28/2022 09:24	WG1824612

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	4140	<u>B</u> <u>J</u>	594	5000	1	02/26/2022 20:53	WG1824101

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1890	<u>B</u>	102	1000	1	03/02/2022 15:14	WG1825365

Metals (ICPMS) by Method 6020B

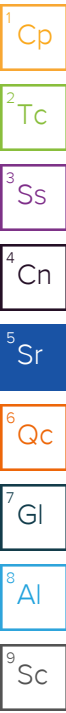
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	3340		28.1	100	1	03/02/2022 02:57	WG1824399
Manganese	534		0.704	5.00	1	03/02/2022 02:57	WG1824399

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	95.6		0.287	0.678	1	03/03/2022 10:49	WG1825348
Ethane	U		0.296	1.29	1	03/03/2022 10:49	WG1825348
Ethene	3.55		0.422	1.27	1	03/03/2022 10:49	WG1825348

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.06	<u>C5</u>	0.548	1.00	1	02/28/2022 09:43	WG1824612
Acrylonitrile	U	<u>C3</u>	0.0760	0.500	1	02/28/2022 09:43	WG1824612
Benzene	U		0.0160	0.0400	1	02/28/2022 09:43	WG1824612
Bromobenzene	U		0.0420	0.500	1	02/28/2022 09:43	WG1824612
Bromodichloromethane	U		0.0315	0.100	1	02/28/2022 09:43	WG1824612
Bromoform	U		0.239	1.00	1	02/28/2022 09:43	WG1824612
Bromomethane	U		0.148	0.500	1	02/28/2022 09:43	WG1824612
n-Butylbenzene	U		0.153	0.500	1	02/28/2022 09:43	WG1824612
sec-Butylbenzene	U		0.101	0.500	1	02/28/2022 09:43	WG1824612
tert-Butylbenzene	U		0.0620	0.200	1	02/28/2022 09:43	WG1824612
Carbon tetrachloride	U		0.0432	0.200	1	02/28/2022 09:43	WG1824612
Chlorobenzene	U		0.0229	0.100	1	02/28/2022 09:43	WG1824612
Chlorodibromomethane	U		0.0180	0.100	1	02/28/2022 09:43	WG1824612
Chloroethane	U		0.0432	0.200	1	02/28/2022 09:43	WG1824612
Chloroform	U		0.0166	0.100	1	02/28/2022 09:43	WG1824612
Chloromethane	U		0.0556	0.500	1	02/28/2022 09:43	WG1824612
2-Chlorotoluene	U		0.0368	0.100	1	02/28/2022 09:43	WG1824612
4-Chlorotoluene	U		0.0452	0.200	1	02/28/2022 09:43	WG1824612
1,2-Dibromo-3-Chloropropane	U	<u>C3</u>	0.204	1.00	1	02/28/2022 09:43	WG1824612
1,2-Dibromoethane	U		0.0210	0.100	1	02/28/2022 09:43	WG1824612
Dibromomethane	U		0.0400	0.200	1	02/28/2022 09:43	WG1824612
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/28/2022 09:43	WG1824612
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/28/2022 09:43	WG1824612
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/28/2022 09:43	WG1824612
Dichlorodifluoromethane	U		0.0327	0.100	1	02/28/2022 09:43	WG1824612
1,1-Dichloroethane	U		0.0230	0.100	1	02/28/2022 09:43	WG1824612
1,2-Dichloroethane	U		0.0190	0.100	1	02/28/2022 09:43	WG1824612
1,1-Dichloroethene	0.513		0.0200	0.100	1	02/28/2022 09:43	WG1824612
cis-1,2-Dichloroethene	11.3		0.0276	0.100	1	02/28/2022 09:43	WG1824612
trans-1,2-Dichloroethene	0.338		0.0572	0.200	1	02/28/2022 09:43	WG1824612
1,2-Dichloropropane	U		0.0508	0.200	1	02/28/2022 09:43	WG1824612



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	02/28/2022 09:43	WG1824612
1,3-Dichloropropane	U		0.0700	0.200	1	02/28/2022 09:43	WG1824612
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/28/2022 09:43	WG1824612
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/28/2022 09:43	WG1824612
2,2-Dichloropropane	U		0.0317	0.100	1	02/28/2022 09:43	WG1824612
Di-isopropyl ether	U		0.0140	0.0400	1	02/28/2022 09:43	WG1824612
Ethylbenzene	0.0440	U	0.0212	0.100	1	02/28/2022 09:43	WG1824612
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/28/2022 09:43	WG1824612
Isopropylbenzene	U		0.0345	0.100	1	02/28/2022 09:43	WG1824612
p-Isopropyltoluene	U		0.0932	0.200	1	02/28/2022 09:43	WG1824612
2-Butanone (MEK)	U		0.500	1.00	1	02/28/2022 09:43	WG1824612
Methylene Chloride	U		0.265	1.00	1	02/28/2022 09:43	WG1824612
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/28/2022 09:43	WG1824612
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/28/2022 09:43	WG1824612
Naphthalene	U	C3	0.124	0.500	1	02/28/2022 09:43	WG1824612
n-Propylbenzene	U		0.0472	0.200	1	02/28/2022 09:43	WG1824612
Styrene	U		0.109	0.500	1	02/28/2022 09:43	WG1824612
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/28/2022 09:43	WG1824612
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/28/2022 09:43	WG1824612
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/28/2022 09:43	WG1824612
Tetrachloroethene	U		0.0280	0.100	1	02/28/2022 09:43	WG1824612
Toluene	0.0550	U	0.0500	0.200	1	02/28/2022 09:43	WG1824612
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/28/2022 09:43	WG1824612
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/28/2022 09:43	WG1824612
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/28/2022 09:43	WG1824612
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/28/2022 09:43	WG1824612
Trichloroethene	0.168		0.0160	0.0400	1	02/28/2022 09:43	WG1824612
Trichlorofluoromethane	U		0.0200	0.100	1	02/28/2022 09:43	WG1824612
1,2,3-Trichloropropane	U		0.204	0.500	1	02/28/2022 09:43	WG1824612
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/28/2022 09:43	WG1824612
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/28/2022 09:43	WG1824612
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/28/2022 09:43	WG1824612
Vinyl chloride	12.5		0.0273	0.100	1	02/28/2022 09:43	WG1824612
Xylenes, Total	0.267		0.191	0.260	1	02/28/2022 09:43	WG1824612
Ethyl Ether	U		0.0170	0.100	1	02/28/2022 09:43	WG1824612
Tetrahydrofuran	1.59		0.0900	0.500	1	02/28/2022 09:43	WG1824612
Iodomethane	U		0.242	0.500	1	02/28/2022 09:43	WG1824612
Allyl chloride	U		0.580	1.00	1	02/28/2022 09:43	WG1824612
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/28/2022 09:43	WG1824612
(S) Toluene-d8	96.9			75.0-131		02/28/2022 09:43	WG1824612
(S) 4-Bromofluorobenzene	100			67.0-138		02/28/2022 09:43	WG1824612
(S) 1,2-Dichloroethane-d4	116			70.0-130		02/28/2022 09:43	WG1824612

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	1760	<u>B</u> <u>J</u>	594	5000	1	02/26/2022 21:12	WG1824101

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	8640		102	1000	1	03/02/2022 15:41	WG1825365

Metals (ICPMS) by Method 6020B

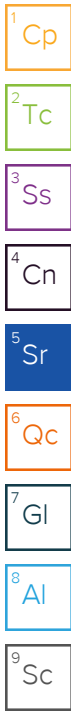
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	8820		28.1	100	1	03/02/2022 03:07	WG1824399
Manganese	1340		0.704	5.00	1	03/02/2022 03:07	WG1824399

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	20100		2.87	6.78	10	03/03/2022 16:17	WG1826357
Ethane	138		0.296	1.29	1	03/03/2022 10:52	WG1825348
Ethene	0.434	<u>J</u>	0.422	1.27	1	03/03/2022 10:52	WG1825348

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	3.31	<u>C5</u>	0.548	1.00	1	03/01/2022 22:01	WG1825410
Acrylonitrile	U		0.0760	0.500	1	03/01/2022 22:01	WG1825410
Benzene	0.0870		0.0160	0.0400	1	03/01/2022 22:01	WG1825410
Bromobenzene	U		0.0420	0.500	1	03/01/2022 22:01	WG1825410
Bromodichloromethane	U		0.0315	0.100	1	03/01/2022 22:01	WG1825410
Bromoform	U		0.239	1.00	1	03/01/2022 22:01	WG1825410
Bromomethane	U		0.148	0.500	1	03/01/2022 22:01	WG1825410
n-Butylbenzene	U		0.153	0.500	1	03/01/2022 22:01	WG1825410
sec-Butylbenzene	U		0.101	0.500	1	03/01/2022 22:01	WG1825410
tert-Butylbenzene	U		0.0620	0.200	1	03/01/2022 22:01	WG1825410
Carbon tetrachloride	U	<u>J4</u>	0.0432	0.200	1	03/01/2022 22:01	WG1825410
Chlorobenzene	U		0.0229	0.100	1	03/01/2022 22:01	WG1825410
Chlorodibromomethane	U		0.0180	0.100	1	03/01/2022 22:01	WG1825410
Chloroethane	U		0.0432	0.200	1	03/01/2022 22:01	WG1825410
Chloroform	U		0.0166	0.100	1	03/01/2022 22:01	WG1825410
Chloromethane	U		0.0556	0.500	1	03/01/2022 22:01	WG1825410
2-Chlorotoluene	U		0.0368	0.100	1	03/01/2022 22:01	WG1825410
4-Chlorotoluene	U		0.0452	0.200	1	03/01/2022 22:01	WG1825410
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/01/2022 22:01	WG1825410
1,2-Dibromoethane	U		0.0210	0.100	1	03/01/2022 22:01	WG1825410
Dibromomethane	U		0.0400	0.200	1	03/01/2022 22:01	WG1825410
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/01/2022 22:01	WG1825410
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/01/2022 22:01	WG1825410
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/01/2022 22:01	WG1825410
Dichlorodifluoromethane	U		0.0327	0.100	1	03/01/2022 22:01	WG1825410
1,1-Dichloroethane	U		0.0230	0.100	1	03/01/2022 22:01	WG1825410
1,2-Dichloroethane	U		0.0190	0.100	1	03/01/2022 22:01	WG1825410
1,1-Dichloroethene	U		0.0200	0.100	1	03/01/2022 22:01	WG1825410
cis-1,2-Dichloroethene	6.97		0.0276	0.100	1	03/01/2022 22:01	WG1825410
trans-1,2-Dichloroethene	3.97		0.0572	0.200	1	03/01/2022 22:01	WG1825410
1,2-Dichloropropane	U		0.0508	0.200	1	03/01/2022 22:01	WG1825410



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/01/2022 22:01	WG1825410
1,3-Dichloropropane	U		0.0700	0.200	1	03/01/2022 22:01	WG1825410
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/01/2022 22:01	WG1825410
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/01/2022 22:01	WG1825410
2,2-Dichloropropane	U		0.0317	0.100	1	03/01/2022 22:01	WG1825410
Di-isopropyl ether	U		0.0140	0.0400	1	03/01/2022 22:01	WG1825410
Ethylbenzene	U		0.0212	0.100	1	03/01/2022 22:01	WG1825410
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/01/2022 22:01	WG1825410
Isopropylbenzene	0.0480	I U	0.0345	0.100	1	03/01/2022 22:01	WG1825410
p-Isopropyltoluene	0.147	I U	0.0932	0.200	1	03/01/2022 22:01	WG1825410
2-Butanone (MEK)	U		0.500	1.00	1	03/01/2022 22:01	WG1825410
Methylene Chloride	U		0.265	1.00	1	03/01/2022 22:01	WG1825410
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/01/2022 22:01	WG1825410
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/01/2022 22:01	WG1825410
Naphthalene	U		0.124	0.500	1	03/01/2022 22:01	WG1825410
n-Propylbenzene	U		0.0472	0.200	1	03/01/2022 22:01	WG1825410
Styrene	U		0.109	0.500	1	03/01/2022 22:01	WG1825410
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/01/2022 22:01	WG1825410
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/01/2022 22:01	WG1825410
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/01/2022 22:01	WG1825410
Tetrachloroethene	0.274		0.0280	0.100	1	03/01/2022 22:01	WG1825410
Toluene	0.641		0.0500	0.200	1	03/01/2022 22:01	WG1825410
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/01/2022 22:01	WG1825410
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/01/2022 22:01	WG1825410
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/01/2022 22:01	WG1825410
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/01/2022 22:01	WG1825410
Trichloroethene	0.668		0.0160	0.0400	1	03/01/2022 22:01	WG1825410
Trichlorofluoromethane	U		0.0200	0.100	1	03/01/2022 22:01	WG1825410
1,2,3-Trichloropropane	U		0.204	0.500	1	03/01/2022 22:01	WG1825410
1,2,4-Trimethylbenzene	0.113	B J	0.0464	0.200	1	03/01/2022 22:01	WG1825410
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/01/2022 22:01	WG1825410
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/01/2022 22:01	WG1825410
Vinyl chloride	1.85		0.0273	0.100	1	03/01/2022 22:01	WG1825410
Xylenes, Total	0.192	I U	0.191	0.260	1	03/01/2022 22:01	WG1825410
Ethyl Ether	U		0.0170	0.100	1	03/01/2022 22:01	WG1825410
Tetrahydrofuran	51.7		0.0900	0.500	1	03/01/2022 22:01	WG1825410
Iodomethane	U		0.242	0.500	1	03/01/2022 22:01	WG1825410
Allyl chloride	U		0.580	1.00	1	03/01/2022 22:01	WG1825410
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/01/2022 22:01	WG1825410
(S) Toluene-d8	99.7			75.0-131		03/01/2022 22:01	WG1825410
(S) 4-Bromofluorobenzene	99.2			67.0-138		03/01/2022 22:01	WG1825410
(S) 1,2-Dichloroethane-d4	108			70.0-130		03/01/2022 22:01	WG1825410

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	2440	<u>B</u> <u>J</u>	594	5000	1	02/26/2022 21:31	WG1824101

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1240	<u>B</u>	102	1000	1	03/02/2022 17:51	WG1825365

Metals (ICPMS) by Method 6020B

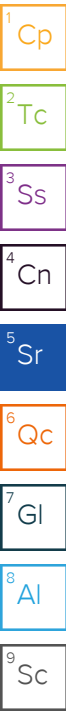
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	8180		28.1	100	1	03/02/2022 03:11	WG1824399
Manganese	425		0.704	5.00	1	03/02/2022 03:11	WG1824399

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	119		0.287	0.678	1	03/03/2022 10:55	WG1825348
Ethane	U		0.296	1.29	1	03/03/2022 10:55	WG1825348
Ethene	U		0.422	1.27	1	03/03/2022 10:55	WG1825348

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	02/28/2022 10:02	WG1824612
Acrylonitrile	U	<u>C3</u>	0.0760	0.500	1	02/28/2022 10:02	WG1824612
Benzene	U		0.0160	0.0400	1	02/28/2022 10:02	WG1824612
Bromobenzene	U		0.0420	0.500	1	02/28/2022 10:02	WG1824612
Bromodichloromethane	U		0.0315	0.100	1	02/28/2022 10:02	WG1824612
Bromoform	U		0.239	1.00	1	02/28/2022 10:02	WG1824612
Bromomethane	U		0.148	0.500	1	02/28/2022 10:02	WG1824612
n-Butylbenzene	U		0.153	0.500	1	02/28/2022 10:02	WG1824612
sec-Butylbenzene	U		0.101	0.500	1	02/28/2022 10:02	WG1824612
tert-Butylbenzene	U		0.0620	0.200	1	02/28/2022 10:02	WG1824612
Carbon tetrachloride	U		0.0432	0.200	1	02/28/2022 10:02	WG1824612
Chlorobenzene	U		0.0229	0.100	1	02/28/2022 10:02	WG1824612
Chlorodibromomethane	U		0.0180	0.100	1	02/28/2022 10:02	WG1824612
Chloroethane	U		0.0432	0.200	1	02/28/2022 10:02	WG1824612
Chloroform	U		0.0166	0.100	1	02/28/2022 10:02	WG1824612
Chloromethane	U		0.0556	0.500	1	02/28/2022 10:02	WG1824612
2-Chlorotoluene	U		0.0368	0.100	1	02/28/2022 10:02	WG1824612
4-Chlorotoluene	U		0.0452	0.200	1	02/28/2022 10:02	WG1824612
1,2-Dibromo-3-Chloropropane	U	<u>C3</u>	0.204	1.00	1	02/28/2022 10:02	WG1824612
1,2-Dibromoethane	U		0.0210	0.100	1	02/28/2022 10:02	WG1824612
Dibromomethane	U		0.0400	0.200	1	02/28/2022 10:02	WG1824612
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/28/2022 10:02	WG1824612
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/28/2022 10:02	WG1824612
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/28/2022 10:02	WG1824612
Dichlorodifluoromethane	U		0.0327	0.100	1	02/28/2022 10:02	WG1824612
1,1-Dichloroethane	U		0.0230	0.100	1	02/28/2022 10:02	WG1824612
1,2-Dichloroethane	U		0.0190	0.100	1	02/28/2022 10:02	WG1824612
1,1-Dichloroethene	0.0470	<u>J</u>	0.0200	0.100	1	02/28/2022 10:02	WG1824612
cis-1,2-Dichloroethene	3.08		0.0276	0.100	1	02/28/2022 10:02	WG1824612
trans-1,2-Dichloroethene	U		0.0572	0.200	1	02/28/2022 10:02	WG1824612
1,2-Dichloropropane	U		0.0508	0.200	1	02/28/2022 10:02	WG1824612



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	02/28/2022 10:02	WG1824612
1,3-Dichloropropane	U		0.0700	0.200	1	02/28/2022 10:02	WG1824612
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/28/2022 10:02	WG1824612
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/28/2022 10:02	WG1824612
2,2-Dichloropropane	U		0.0317	0.100	1	02/28/2022 10:02	WG1824612
Di-isopropyl ether	U		0.0140	0.0400	1	02/28/2022 10:02	WG1824612
Ethylbenzene	0.0960	U	0.0212	0.100	1	02/28/2022 10:02	WG1824612
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/28/2022 10:02	WG1824612
Isopropylbenzene	U		0.0345	0.100	1	02/28/2022 10:02	WG1824612
p-Isopropyltoluene	U		0.0932	0.200	1	02/28/2022 10:02	WG1824612
2-Butanone (MEK)	U		0.500	1.00	1	02/28/2022 10:02	WG1824612
Methylene Chloride	U		0.265	1.00	1	02/28/2022 10:02	WG1824612
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/28/2022 10:02	WG1824612
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/28/2022 10:02	WG1824612
Naphthalene	U	C3	0.124	0.500	1	02/28/2022 10:02	WG1824612
n-Propylbenzene	U		0.0472	0.200	1	02/28/2022 10:02	WG1824612
Styrene	U		0.109	0.500	1	02/28/2022 10:02	WG1824612
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/28/2022 10:02	WG1824612
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/28/2022 10:02	WG1824612
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/28/2022 10:02	WG1824612
Tetrachloroethene	U		0.0280	0.100	1	02/28/2022 10:02	WG1824612
Toluene	0.0670	U	0.0500	0.200	1	02/28/2022 10:02	WG1824612
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/28/2022 10:02	WG1824612
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/28/2022 10:02	WG1824612
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/28/2022 10:02	WG1824612
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/28/2022 10:02	WG1824612
Trichloroethene	0.127		0.0160	0.0400	1	02/28/2022 10:02	WG1824612
Trichlorofluoromethane	U		0.0200	0.100	1	02/28/2022 10:02	WG1824612
1,2,3-Trichloropropane	U		0.204	0.500	1	02/28/2022 10:02	WG1824612
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/28/2022 10:02	WG1824612
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/28/2022 10:02	WG1824612
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/28/2022 10:02	WG1824612
Vinyl chloride	0.929		0.0273	0.100	1	02/28/2022 10:02	WG1824612
Xylenes, Total	0.400		0.191	0.260	1	02/28/2022 10:02	WG1824612
Ethyl Ether	U		0.0170	0.100	1	02/28/2022 10:02	WG1824612
Tetrahydrofuran	U		0.0900	0.500	1	02/28/2022 10:02	WG1824612
Iodomethane	U		0.242	0.500	1	02/28/2022 10:02	WG1824612
Allyl chloride	U		0.580	1.00	1	02/28/2022 10:02	WG1824612
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/28/2022 10:02	WG1824612
(S) Toluene-d8	98.8			75.0-131		02/28/2022 10:02	WG1824612
(S) 4-Bromofluorobenzene	92.9			67.0-138		02/28/2022 10:02	WG1824612
(S) 1,2-Dichloroethane-d4	117			70.0-130		02/28/2022 10:02	WG1824612

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	2040	<u>B</u> <u>J</u>	594	5000	1	02/26/2022 21:50	WG1824101

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4630		102	1000	1	03/02/2022 18:23	WG1825365

Metals (ICPMS) by Method 6020B

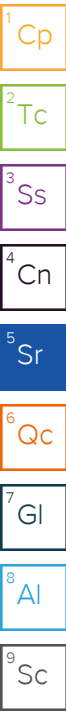
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1170		28.1	100	1	03/02/2022 03:14	WG1824399
Manganese	1210		0.704	5.00	1	03/02/2022 03:14	WG1824399

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	7800		2.87	6.78	10	03/03/2022 16:20	WG1826357
Ethane	131		0.296	1.29	1	03/03/2022 10:58	WG1825348
Ethene	U		0.422	1.27	1	03/03/2022 10:58	WG1825348

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.24	<u>C5</u>	0.548	1.00	1	02/28/2022 10:21	WG1824612
Acrylonitrile	U	<u>C3</u>	0.0760	0.500	1	02/28/2022 10:21	WG1824612
Benzene	U		0.0160	0.0400	1	02/28/2022 10:21	WG1824612
Bromobenzene	U		0.0420	0.500	1	02/28/2022 10:21	WG1824612
Bromodichloromethane	U		0.0315	0.100	1	02/28/2022 10:21	WG1824612
Bromoform	U		0.239	1.00	1	02/28/2022 10:21	WG1824612
Bromomethane	U		0.148	0.500	1	02/28/2022 10:21	WG1824612
n-Butylbenzene	U		0.153	0.500	1	02/28/2022 10:21	WG1824612
sec-Butylbenzene	U		0.101	0.500	1	02/28/2022 10:21	WG1824612
tert-Butylbenzene	U		0.0620	0.200	1	02/28/2022 10:21	WG1824612
Carbon tetrachloride	U		0.0432	0.200	1	02/28/2022 10:21	WG1824612
Chlorobenzene	U		0.0229	0.100	1	02/28/2022 10:21	WG1824612
Chlorodibromomethane	U		0.0180	0.100	1	02/28/2022 10:21	WG1824612
Chloroethane	0.104	<u>J</u>	0.0432	0.200	1	02/28/2022 10:21	WG1824612
Chloroform	U		0.0166	0.100	1	02/28/2022 10:21	WG1824612
Chloromethane	U		0.0556	0.500	1	02/28/2022 10:21	WG1824612
2-Chlorotoluene	U		0.0368	0.100	1	02/28/2022 10:21	WG1824612
4-Chlorotoluene	U		0.0452	0.200	1	02/28/2022 10:21	WG1824612
1,2-Dibromo-3-Chloropropane	U	<u>C3</u>	0.204	1.00	1	02/28/2022 10:21	WG1824612
1,2-Dibromoethane	U		0.0210	0.100	1	02/28/2022 10:21	WG1824612
Dibromomethane	U		0.0400	0.200	1	02/28/2022 10:21	WG1824612
1,2-Dichlorobenzene	U		0.0580	0.200	1	02/28/2022 10:21	WG1824612
1,3-Dichlorobenzene	U		0.0680	0.200	1	02/28/2022 10:21	WG1824612
1,4-Dichlorobenzene	U		0.0788	0.200	1	02/28/2022 10:21	WG1824612
Dichlorodifluoromethane	U		0.0327	0.100	1	02/28/2022 10:21	WG1824612
1,1-Dichloroethane	U		0.0230	0.100	1	02/28/2022 10:21	WG1824612
1,2-Dichloroethane	U		0.0190	0.100	1	02/28/2022 10:21	WG1824612
1,1-Dichloroethene	U		0.0200	0.100	1	02/28/2022 10:21	WG1824612
cis-1,2-Dichloroethene	0.159		0.0276	0.100	1	02/28/2022 10:21	WG1824612
trans-1,2-Dichloroethene	U		0.0572	0.200	1	02/28/2022 10:21	WG1824612
1,2-Dichloropropane	U		0.0508	0.200	1	02/28/2022 10:21	WG1824612



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	02/28/2022 10:21	WG1824612
1,3-Dichloropropane	U		0.0700	0.200	1	02/28/2022 10:21	WG1824612
cis-1,3-Dichloropropene	U		0.0271	0.100	1	02/28/2022 10:21	WG1824612
trans-1,3-Dichloropropene	U		0.0612	0.200	1	02/28/2022 10:21	WG1824612
2,2-Dichloropropane	U		0.0317	0.100	1	02/28/2022 10:21	WG1824612
Di-isopropyl ether	U		0.0140	0.0400	1	02/28/2022 10:21	WG1824612
Ethylbenzene	U		0.0212	0.100	1	02/28/2022 10:21	WG1824612
Hexachloro-1,3-butadiene	U		0.508	1.00	1	02/28/2022 10:21	WG1824612
Isopropylbenzene	U		0.0345	0.100	1	02/28/2022 10:21	WG1824612
p-Isopropyltoluene	U		0.0932	0.200	1	02/28/2022 10:21	WG1824612
2-Butanone (MEK)	U		0.500	1.00	1	02/28/2022 10:21	WG1824612
Methylene Chloride	U		0.265	1.00	1	02/28/2022 10:21	WG1824612
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	02/28/2022 10:21	WG1824612
Methyl tert-butyl ether	U		0.0118	0.0400	1	02/28/2022 10:21	WG1824612
Naphthalene	U	C3	0.124	0.500	1	02/28/2022 10:21	WG1824612
n-Propylbenzene	U		0.0472	0.200	1	02/28/2022 10:21	WG1824612
Styrene	U		0.109	0.500	1	02/28/2022 10:21	WG1824612
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	02/28/2022 10:21	WG1824612
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	02/28/2022 10:21	WG1824612
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	02/28/2022 10:21	WG1824612
Tetrachloroethene	U		0.0280	0.100	1	02/28/2022 10:21	WG1824612
Toluene	U		0.0500	0.200	1	02/28/2022 10:21	WG1824612
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	02/28/2022 10:21	WG1824612
1,2,4-Trichlorobenzene	U		0.193	0.500	1	02/28/2022 10:21	WG1824612
1,1,1-Trichloroethane	U		0.0110	0.100	1	02/28/2022 10:21	WG1824612
1,1,2-Trichloroethane	U		0.0353	0.100	1	02/28/2022 10:21	WG1824612
Trichloroethene	0.0690		0.0160	0.0400	1	02/28/2022 10:21	WG1824612
Trichlorofluoromethane	U		0.0200	0.100	1	02/28/2022 10:21	WG1824612
1,2,3-Trichloropropane	U		0.204	0.500	1	02/28/2022 10:21	WG1824612
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	02/28/2022 10:21	WG1824612
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	02/28/2022 10:21	WG1824612
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	02/28/2022 10:21	WG1824612
Vinyl chloride	U		0.0273	0.100	1	02/28/2022 10:21	WG1824612
Xylenes, Total	U		0.191	0.260	1	02/28/2022 10:21	WG1824612
Ethyl Ether	U		0.0170	0.100	1	02/28/2022 10:21	WG1824612
Tetrahydrofuran	0.289	U	0.0900	0.500	1	02/28/2022 10:21	WG1824612
Iodomethane	U		0.242	0.500	1	02/28/2022 10:21	WG1824612
Allyl chloride	U		0.580	1.00	1	02/28/2022 10:21	WG1824612
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	02/28/2022 10:21	WG1824612
(S) Toluene-d8	97.8			75.0-131		02/28/2022 10:21	WG1824612
(S) 4-Bromofluorobenzene	97.8			67.0-138		02/28/2022 10:21	WG1824612
(S) 1,2-Dichloroethane-d4	117			70.0-130		02/28/2022 10:21	WG1824612

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.27	C5	0.548	1.00	1	03/01/2022 23:36	WG1825305
Acrylonitrile	U		0.0760	0.500	1	03/01/2022 23:36	WG1825305
Benzene	U		0.0160	0.0400	1	03/01/2022 23:36	WG1825305
Bromobenzene	U		0.0420	0.500	1	03/01/2022 23:36	WG1825305
Bromodichloromethane	U		0.0315	0.100	1	03/01/2022 23:36	WG1825305
Bromoform	U		0.239	1.00	1	03/01/2022 23:36	WG1825305
Bromomethane	U		0.148	0.500	1	03/01/2022 23:36	WG1825305
n-Butylbenzene	U		0.153	0.500	1	03/01/2022 23:36	WG1825305
sec-Butylbenzene	U		0.101	0.500	1	03/01/2022 23:36	WG1825305
tert-Butylbenzene	U		0.0620	0.200	1	03/01/2022 23:36	WG1825305
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/01/2022 23:36	WG1825305
Chlorobenzene	U		0.0229	0.100	1	03/01/2022 23:36	WG1825305
Chlorodibromomethane	U		0.0180	0.100	1	03/01/2022 23:36	WG1825305
Chloroethane	U		0.0432	0.200	1	03/01/2022 23:36	WG1825305
Chloroform	U		0.0166	0.100	1	03/01/2022 23:36	WG1825305
Chloromethane	U		0.0556	0.500	1	03/01/2022 23:36	WG1825305
2-Chlorotoluene	U		0.0368	0.100	1	03/01/2022 23:36	WG1825305
4-Chlorotoluene	U		0.0452	0.200	1	03/01/2022 23:36	WG1825305
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/01/2022 23:36	WG1825305
1,2-Dibromoethane	U		0.0210	0.100	1	03/01/2022 23:36	WG1825305
Dibromomethane	U		0.0400	0.200	1	03/01/2022 23:36	WG1825305
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/01/2022 23:36	WG1825305
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/01/2022 23:36	WG1825305
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/01/2022 23:36	WG1825305
Dichlorodifluoromethane	U		0.0327	0.100	1	03/01/2022 23:36	WG1825305
1,1-Dichloroethane	U		0.0230	0.100	1	03/01/2022 23:36	WG1825305
1,2-Dichloroethane	U		0.0190	0.100	1	03/01/2022 23:36	WG1825305
1,1-Dichloroethene	0.204		0.0200	0.100	1	03/01/2022 23:36	WG1825305
cis-1,2-Dichloroethene	89.6		0.138	0.500	5	03/03/2022 01:27	WG1826259
trans-1,2-Dichloroethene	0.191	J	0.0572	0.200	1	03/01/2022 23:36	WG1825305
1,2-Dichloropropane	U		0.0508	0.200	1	03/01/2022 23:36	WG1825305
1,1-Dichloropropene	U		0.0280	0.100	1	03/01/2022 23:36	WG1825305
1,3-Dichloropropane	U		0.0700	0.200	1	03/01/2022 23:36	WG1825305
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/01/2022 23:36	WG1825305
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/01/2022 23:36	WG1825305
2,2-Dichloropropane	U		0.0317	0.100	1	03/01/2022 23:36	WG1825305
Di-isopropyl ether	U		0.0140	0.0400	1	03/01/2022 23:36	WG1825305
Ethylbenzene	U		0.0212	0.100	1	03/01/2022 23:36	WG1825305
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/01/2022 23:36	WG1825305
Isopropylbenzene	U		0.0345	0.100	1	03/01/2022 23:36	WG1825305
p-Isopropyltoluene	U		0.0932	0.200	1	03/01/2022 23:36	WG1825305
2-Butanone (MEK)	U		0.500	1.00	1	03/01/2022 23:36	WG1825305
Methylene Chloride	U		0.265	1.00	1	03/01/2022 23:36	WG1825305
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/01/2022 23:36	WG1825305
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/01/2022 23:36	WG1825305
Naphthalene	U		0.124	0.500	1	03/01/2022 23:36	WG1825305
n-Propylbenzene	U		0.0472	0.200	1	03/01/2022 23:36	WG1825305
Styrene	U		0.109	0.500	1	03/01/2022 23:36	WG1825305
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/01/2022 23:36	WG1825305
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/01/2022 23:36	WG1825305
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/01/2022 23:36	WG1825305
Tetrachloroethene	U		0.0280	0.100	1	03/01/2022 23:36	WG1825305
Toluene	U		0.0500	0.200	1	03/01/2022 23:36	WG1825305
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/01/2022 23:36	WG1825305
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/01/2022 23:36	WG1825305
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/01/2022 23:36	WG1825305



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/01/2022 23:36	WG1825305
Trichloroethene	0.504		0.0160	0.0400	1	03/01/2022 23:36	WG1825305
Trichlorofluoromethane	U		0.0200	0.100	1	03/01/2022 23:36	WG1825305
1,2,3-Trichloropropane	U		0.204	0.500	1	03/01/2022 23:36	WG1825305
1,2,4-Trimethylbenzene	0.0720	<u>B J</u>	0.0464	0.200	1	03/01/2022 23:36	WG1825305
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/01/2022 23:36	WG1825305
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/01/2022 23:36	WG1825305
Vinyl chloride	81.7		0.0273	0.100	1	03/01/2022 23:36	WG1825305
Xylenes, Total	U		0.191	0.260	1	03/01/2022 23:36	WG1825305
Ethyl Ether	U		0.0170	0.100	1	03/01/2022 23:36	WG1825305
Tetrahydrofuran	U		0.0900	0.500	1	03/01/2022 23:36	WG1825305
Iodomethane	U		0.242	0.500	1	03/01/2022 23:36	WG1825305
Allyl chloride	U		0.580	1.00	1	03/01/2022 23:36	WG1825305
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/01/2022 23:36	WG1825305
(S) Toluene-d8	105			75.0-131		03/01/2022 23:36	WG1825305
(S) Toluene-d8	137	<u>J1</u>		75.0-131		03/03/2022 01:27	WG1826259
(S) 4-Bromofluorobenzene	99.5			67.0-138		03/01/2022 23:36	WG1825305
(S) 4-Bromofluorobenzene	89.6			67.0-138		03/03/2022 01:27	WG1826259
(S) 1,2-Dichloroethane-d4	113			70.0-130		03/01/2022 23:36	WG1825305
(S) 1,2-Dichloroethane-d4	82.4			70.0-130		03/03/2022 01:27	WG1826259

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/01/2022 09:14	WG1824911
(S) a,a,a-Trifluorotoluene(FID)	114			78.0-120		03/01/2022 09:14	WG1824911

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	5.21	C5	0.548	1.00	1	03/01/2022 22:58	WG1825305
Acrylonitrile	U		0.0760	0.500	1	03/01/2022 22:58	WG1825305
Benzene	U		0.0160	0.0400	1	03/01/2022 22:58	WG1825305
Bromobenzene	U		0.0420	0.500	1	03/01/2022 22:58	WG1825305
Bromodichloromethane	U		0.0315	0.100	1	03/01/2022 22:58	WG1825305
Bromoform	U		0.239	1.00	1	03/01/2022 22:58	WG1825305
Bromomethane	U		0.148	0.500	1	03/01/2022 22:58	WG1825305
n-Butylbenzene	U		0.153	0.500	1	03/01/2022 22:58	WG1825305
sec-Butylbenzene	U		0.101	0.500	1	03/01/2022 22:58	WG1825305
tert-Butylbenzene	U		0.0620	0.200	1	03/01/2022 22:58	WG1825305
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/01/2022 22:58	WG1825305
Chlorobenzene	U		0.0229	0.100	1	03/01/2022 22:58	WG1825305
Chlorodibromomethane	U		0.0180	0.100	1	03/01/2022 22:58	WG1825305
Chloroethane	U		0.0432	0.200	1	03/01/2022 22:58	WG1825305
Chloroform	U		0.0166	0.100	1	03/01/2022 22:58	WG1825305
Chloromethane	U		0.0556	0.500	1	03/01/2022 22:58	WG1825305
2-Chlorotoluene	U		0.0368	0.100	1	03/01/2022 22:58	WG1825305
4-Chlorotoluene	U		0.0452	0.200	1	03/01/2022 22:58	WG1825305
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/01/2022 22:58	WG1825305
1,2-Dibromoethane	U		0.0210	0.100	1	03/01/2022 22:58	WG1825305
Dibromomethane	U		0.0400	0.200	1	03/01/2022 22:58	WG1825305
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/01/2022 22:58	WG1825305
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/01/2022 22:58	WG1825305
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/01/2022 22:58	WG1825305
Dichlorodifluoromethane	U		0.0327	0.100	1	03/01/2022 22:58	WG1825305
1,1-Dichloroethane	U		0.0230	0.100	1	03/01/2022 22:58	WG1825305
1,2-Dichloroethane	U		0.0190	0.100	1	03/01/2022 22:58	WG1825305
1,1-Dichloroethene	U		0.0200	0.100	1	03/01/2022 22:58	WG1825305
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/01/2022 22:58	WG1825305
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/01/2022 22:58	WG1825305
1,2-Dichloropropane	U		0.0508	0.200	1	03/01/2022 22:58	WG1825305
1,1-Dichloropropene	U		0.0280	0.100	1	03/01/2022 22:58	WG1825305
1,3-Dichloropropane	U		0.0700	0.200	1	03/01/2022 22:58	WG1825305
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/01/2022 22:58	WG1825305
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/01/2022 22:58	WG1825305
2,2-Dichloropropane	U		0.0317	0.100	1	03/01/2022 22:58	WG1825305
Di-isopropyl ether	U		0.0140	0.0400	1	03/01/2022 22:58	WG1825305
Ethylbenzene	U		0.0212	0.100	1	03/01/2022 22:58	WG1825305
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/01/2022 22:58	WG1825305
Isopropylbenzene	U		0.0345	0.100	1	03/01/2022 22:58	WG1825305
p-Isopropyltoluene	U		0.0932	0.200	1	03/01/2022 22:58	WG1825305
2-Butanone (MEK)	U		0.500	1.00	1	03/01/2022 22:58	WG1825305
Methylene Chloride	U		0.265	1.00	1	03/01/2022 22:58	WG1825305
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/01/2022 22:58	WG1825305
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/01/2022 22:58	WG1825305
Naphthalene	U		0.124	0.500	1	03/01/2022 22:58	WG1825305
n-Propylbenzene	U		0.0472	0.200	1	03/01/2022 22:58	WG1825305
Styrene	U		0.109	0.500	1	03/01/2022 22:58	WG1825305

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/01/2022 22:58	WG1825305
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/01/2022 22:58	WG1825305
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/01/2022 22:58	WG1825305
Tetrachloroethene	U		0.0280	0.100	1	03/01/2022 22:58	WG1825305
Toluene	0.136	<u>J</u>	0.0500	0.200	1	03/01/2022 22:58	WG1825305
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/01/2022 22:58	WG1825305
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/01/2022 22:58	WG1825305
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/01/2022 22:58	WG1825305
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/01/2022 22:58	WG1825305
Trichloroethene	U		0.0160	0.0400	1	03/01/2022 22:58	WG1825305
Trichlorofluoromethane	U		0.0200	0.100	1	03/01/2022 22:58	WG1825305
1,2,3-Trichloropropane	U		0.204	0.500	1	03/01/2022 22:58	WG1825305
1,2,4-Trimethylbenzene	0.0710	<u>B J</u>	0.0464	0.200	1	03/01/2022 22:58	WG1825305
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/01/2022 22:58	WG1825305
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/01/2022 22:58	WG1825305
Vinyl chloride	U		0.0273	0.100	1	03/01/2022 22:58	WG1825305
Xylenes, Total	U		0.191	0.260	1	03/01/2022 22:58	WG1825305
Ethyl Ether	U		0.0170	0.100	1	03/01/2022 22:58	WG1825305
Tetrahydrofuran	U		0.0900	0.500	1	03/01/2022 22:58	WG1825305
Iodomethane	U		0.242	0.500	1	03/01/2022 22:58	WG1825305
Allyl chloride	U		0.580	1.00	1	03/01/2022 22:58	WG1825305
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/01/2022 22:58	WG1825305
(S) Toluene-d8	102			75.0-131		03/01/2022 22:58	WG1825305
(S) 4-Bromofluorobenzene	97.8			67.0-138		03/01/2022 22:58	WG1825305
(S) 1,2-Dichloroethane-d4	104			70.0-130		03/01/2022 22:58	WG1825305

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3765394-1 02/26/22 10:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Sulfate	653	↓	594	5000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1465290-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1465290-01 02/26/22 13:19 • (DUP) R3765394-3 02/26/22 13:38

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	114000	112000	5	1.73		20

L1465487-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1465487-08 02/26/22 18:40 • (DUP) R3765394-6 02/26/22 18:59

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	8680	8450	1	2.63		20

Laboratory Control Sample (LCS)

(LCS) R3765394-2 02/26/22 10:29

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Sulfate	40000	40400	101	90.0-110	

L1465290-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1465290-01 02/26/22 13:19 • (MS) R3765394-4 02/26/22 13:57 • (MSD) R3765394-5 02/26/22 14:15

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Sulfate	50000	114000	161000	159000	93.1	89.7	5	80.0-120			1.06	20

L1465487-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1465487-08 02/26/22 18:40 • (MS) R3765394-7 02/26/22 19:56

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Sulfate	50000	8680	58400	99.5	1	80.0-120	

Method Blank (MB)

(MB) R3765822-2 03/02/22 11:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	314	↓	102	1000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1465487-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1465487-12 03/02/22 15:41 • (DUP) R3765822-5 03/02/22 16:17

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	8640	8740	1	1.18		20

L1465625-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1465625-08 03/02/22 21:21 • (DUP) R3765822-8 03/02/22 21:48

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	4630	4610	1	0.389		20

Laboratory Control Sample (LCS)

(LCS) R3765822-1 03/02/22 10:39

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC	75000	75300	100	85.0-115	

L1465487-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1465487-08 03/02/22 12:56 • (MS) R3765822-3 03/02/22 13:23 • (MSD) R3765822-4 03/02/22 13:49

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	50000	2010	49800	49200	95.6	94.3	1	80.0-120			1.25	20

L1465487-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1465487-14 03/02/22 18:23 • (MS) R3765822-6 03/02/22 18:54 • (MSD) R3765822-7 03/02/22 19:30

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	50000	4630	55600	55700	102	102	1	80.0-120			0.205	20

Method Blank (MB)

(MB) R3765391-1 03/02/22 01:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		28.1	100
Manganese	U		0.704	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3765391-2 03/02/22 01:52

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron	5000	5040	101	80.0-120	
Manganese	50.0	50.0	100	80.0-120	

L1465245-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1465245-01 03/02/22 01:56 • (MS) R3765391-4 03/02/22 02:02 • (MSD) R3765391-5 03/02/22 02:05

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	U	4950	4720	98.9	94.4	1	75.0-125			4.70	20
Manganese	50.0	U	49.2	48.2	98.4	96.4	1	75.0-125			1.99	20

Method Blank (MB)

(MB) R3764549-2 02/27/22 18:32

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	70.4	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	108			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3764549-1 02/27/22 17:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	6000	109	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			100	78.0-120	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3765446-2 03/01/22 08:53

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	115			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3765446-1 03/01/22 08:06

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	6230	113	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			104	78.0-120	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3765654-2 03/02/22 13:54

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1465347-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1465347-03 03/02/22 15:12 • (DUP) R3765654-3 03/02/22 15:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	113	110	1	2.69		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1465487-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1465487-10 03/02/22 15:59 • (DUP) R3765654-4 03/02/22 16:19

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	84.9	88.2	1	3.81		20
Ethane	0.435	0.397	1	9.13	↓	20
Ethene	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3765654-1 03/02/22 13:48 • (LCSD) R3765654-5 03/02/22 16:26

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	67.0	64.5	98.8	95.1	85.0-115			3.80	20
Ethane	129	120	119	93.0	92.2	85.0-115			0.837	20
Ethene	127	121	121	95.3	95.3	85.0-115			0.000	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3766116-2 03/03/22 10:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1465564-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1465564-01 03/03/22 12:04 • (DUP) R3766116-3 03/03/22 12:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	8.60	8.34	1	200		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1465638-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1465638-01 03/03/22 13:09 • (DUP) R3766116-6 03/03/22 14:14

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	146	161	1	9.77		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3766116-1 03/03/22 10:44 • (LCSD) R3766116-7 03/03/22 14:25

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	61.7	70.9	91.0	105	85.0-115			13.9	20
Ethane	129	115	119	89.1	92.2	85.0-115			3.42	20
Ethene	127	119	119	93.7	93.7	85.0-115			0.000	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1465564-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1465564-01 03/03/22 12:04 • (MS) R3766116-4 03/03/22 14:02 • (MSD) R3766116-5 03/03/22 14:09

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Methane	67.8	8.60	72.3	69.8	107	103	1	85.0-115			3.52	20
Ethane	129	U	122	117	94.6	90.7	1	85.0-115			4.18	20
Ethene	127	U	123	118	96.9	92.9	1	85.0-115			4.15	20

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3766182-2 03/03/22 16:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Methane	U		0.287	0.678

1 Cp

2 Tc

3 Ss

L1465529-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1465529-04 03/03/22 16:25 • (DUP) R3766182-3 03/03/22 16:28

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Methane	12600	12700	10	0.791		20

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3766182-1 03/03/22 15:57 • (LCSD) R3766182-4 03/03/22 16:33

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Methane	67.8	64.9	64.8	95.7	95.6	85.0-115			0.154	20

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3764960-3 02/28/22 04:55

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00
Isopropylbenzene	U		0.0345	0.100

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3764960-3 02/28/22 04:55

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Ethyl ether	U		0.0170	0.100
Tetrahydrofuran	U		0.0900	0.500
Iodomethane	U		0.242	0.500
Allyl Chloride	U		0.580	1.00
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
(S) Toluene-d8	96.4			75.0-131
(S) 4-Bromofluorobenzene	94.3			67.0-138
(S) 1,2-Dichloroethane-d4	108			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3764960-1 02/28/22 03:19 • (LCSD) R3764960-2 02/28/22 03:39

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	31.9	29.3	128	117	10.0-160			8.50	31
Acrylonitrile	25.0	19.2	18.8	76.8	75.2	45.0-153			2.11	22
Benzene	5.00	4.44	4.17	88.8	83.4	70.0-123			6.27	20
Bromobenzene	5.00	5.46	5.35	109	107	73.0-121			2.04	20
Bromodichloromethane	5.00	5.52	5.18	110	104	73.0-121			6.36	20
Bromoform	5.00	5.56	5.40	111	108	64.0-132			2.92	20
Bromomethane	5.00	4.57	4.32	91.4	86.4	56.0-147			5.62	20
n-Butylbenzene	5.00	4.33	4.08	86.6	81.6	68.0-135			5.95	20
sec-Butylbenzene	5.00	4.79	4.72	95.8	94.4	74.0-130			1.47	20
tert-Butylbenzene	5.00	5.13	4.92	103	98.4	75.0-127			4.18	20
Carbon tetrachloride	5.00	5.76	5.42	115	108	66.0-128			6.08	20
Chlorobenzene	5.00	5.04	4.75	101	95.0	76.0-128			5.92	20
Chlorodibromomethane	5.00	5.53	5.30	111	106	74.0-127			4.25	20
Chloroethane	5.00	4.50	4.23	90.0	84.6	61.0-134			6.19	20
Chloroform	5.00	5.13	4.76	103	95.2	72.0-123			7.48	20
Chloromethane	5.00	4.31	3.86	86.2	77.2	51.0-138			11.0	20
2-Chlorotoluene	5.00	4.90	5.27	98.0	105	75.0-124			7.28	20
4-Chlorotoluene	5.00	5.16	5.00	103	100	75.0-124			3.15	20
1,2-Dibromo-3-Chloropropane	5.00	3.86	4.20	77.2	84.0	59.0-130			8.44	20
1,2-Dibromoethane	5.00	5.16	5.14	103	103	74.0-128			0.388	20
Dibromomethane	5.00	4.97	4.66	99.4	93.2	75.0-122			6.44	20
1,2-Dichlorobenzene	5.00	4.43	4.88	88.6	97.6	76.0-124			9.67	20
1,3-Dichlorobenzene	5.00	5.03	5.06	101	101	76.0-125			0.595	20
1,4-Dichlorobenzene	5.00	4.58	5.15	91.6	103	77.0-121			11.7	20
Dichlorodifluoromethane	5.00	5.45	4.95	109	99.0	43.0-156			9.62	20
1,1-Dichloroethane	5.00	4.82	4.65	96.4	93.0	70.0-127			3.59	20
1,2-Dichloroethane	5.00	5.77	5.36	115	107	65.0-131			7.37	20
1,1-Dichloroethene	5.00	4.85	4.52	97.0	90.4	65.0-131			7.04	20
cis-1,2-Dichloroethene	5.00	5.11	4.74	102	94.8	73.0-125			7.51	20
trans-1,2-Dichloroethene	5.00	5.02	4.60	100	92.0	71.0-125			8.73	20
1,2-Dichloropropane	5.00	4.77	4.49	95.4	89.8	74.0-125			6.05	20
1,1-Dichloropropene	5.00	5.01	4.54	100	90.8	73.0-125			9.84	20
1,3-Dichloropropane	5.00	5.02	4.76	100	95.2	80.0-125			5.32	20
cis-1,3-Dichloropropene	5.00	5.32	5.04	106	101	76.0-127			5.41	20
trans-1,3-Dichloropropene	5.00	5.82	5.53	116	111	73.0-127			5.11	20
2,2-Dichloropropane	5.00	4.81	4.48	96.2	89.6	59.0-135			7.10	20
Di-isopropyl ether	5.00	4.74	4.64	94.8	92.8	60.0-136			2.13	20
Ethylbenzene	5.00	4.93	4.71	98.6	94.2	74.0-126			4.56	20
Hexachloro-1,3-butadiene	5.00	4.90	4.99	98.0	99.8	57.0-150			1.82	20
Isopropylbenzene	5.00	4.79	4.64	95.8	92.8	72.0-127			3.18	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3764960-1 02/28/22 03:19 • (LCSD) R3764960-2 02/28/22 03:39

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
p-Isopropyltoluene	5.00	5.14	5.05	103	101	72.0-133			1.77	20
2-Butanone (MEK)	25.0	22.0	20.5	88.0	82.0	30.0-160			7.06	24
Methylene Chloride	5.00	4.74	4.44	94.8	88.8	68.0-123			6.54	20
4-Methyl-2-pentanone (MIBK)	25.0	26.0	25.4	104	102	56.0-143			2.33	20
Methyl tert-butyl ether	5.00	5.10	4.87	102	97.4	66.0-132			4.61	20
Naphthalene	5.00	3.82	3.90	76.4	78.0	59.0-130			2.07	20
n-Propylbenzene	5.00	4.66	4.65	93.2	93.0	74.0-126			0.215	20
Styrene	5.00	4.85	4.66	97.0	93.2	72.0-127			4.00	20
1,1,1,2-Tetrachloroethane	5.00	5.67	5.07	113	101	74.0-129			11.2	20
1,1,2,2-Tetrachloroethane	5.00	4.17	4.15	83.4	83.0	68.0-128			0.481	20
1,1,2-Trichlorotrifluoroethane	5.00	4.93	4.60	98.6	92.0	61.0-139			6.93	20
Tetrachloroethene	5.00	5.16	4.82	103	96.4	70.0-136			6.81	20
Toluene	5.00	4.50	4.24	90.0	84.8	75.0-121			5.95	20
1,2,3-Trichlorobenzene	5.00	4.19	4.37	83.8	87.4	59.0-139			4.21	20
1,2,4-Trichlorobenzene	5.00	4.17	4.55	83.4	91.0	62.0-137			8.72	20
1,1,1-Trichloroethane	5.00	5.49	4.94	110	98.8	69.0-126			10.5	20
1,1,2-Trichloroethane	5.00	4.87	4.79	97.4	95.8	78.0-123			1.66	20
Trichloroethene	5.00	5.37	4.79	107	95.8	76.0-126			11.4	20
Trichlorofluoromethane	5.00	4.90	4.41	98.0	88.2	61.0-142			10.5	20
1,2,3-Trichloropropane	5.00	5.21	5.52	104	110	67.0-129			5.78	20
1,2,4-Trimethylbenzene	5.00	5.01	5.01	100	100	70.0-126			0.000	20
1,2,3-Trimethylbenzene	5.00	4.97	4.87	99.4	97.4	74.0-124			2.03	20
1,3,5-Trimethylbenzene	5.00	4.97	4.94	99.4	98.8	73.0-127			0.605	20
Vinyl chloride	5.00	4.22	3.83	84.4	76.6	63.0-134			9.69	20
Xylenes, Total	15.0	14.4	13.8	96.0	92.0	72.0-127			4.26	20
Ethyl ether	5.00	4.98	4.71	99.6	94.2	64.0-137			5.57	20
Tetrahydrofuran	5.00	5.09	4.72	102	94.4	37.0-146			7.54	24
Iodomethane	25.0	27.9	26.1	112	104	74.0-134			6.67	20
Allyl chloride	25.0	25.5	23.9	102	95.6	70.0-131			6.48	20
trans-1,4-Dichloro-2-butene	5.00	5.30	5.29	106	106	45.0-143			0.189	20
(S) Toluene-d8				99.9	101	75.0-131				
(S) 4-Bromofluorobenzene				97.4	94.4	67.0-138				
(S) 1,2-Dichloroethane-d4				113	111	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3765552-3 03/01/22 21:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00
Isopropylbenzene	U		0.0345	0.100

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3765552-3 03/01/22 21:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	0.107	U	0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Ethyl ether	U		0.0170	0.100
Tetrahydrofuran	U		0.0900	0.500
Iodomethane	U		0.242	0.500
Allyl Chloride	U		0.580	1.00
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
(S) Toluene-d8	96.6			75.0-131
(S) 4-Bromofluorobenzene	99.1			67.0-138
(S) 1,2-Dichloroethane-d4	107			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3765552-1 03/01/22 20:26 • (LCSD) R3765552-2 03/01/22 20:45

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	36.0	33.9	144	136	10.0-160			6.01	31
Acrylonitrile	25.0	21.5	21.9	86.0	87.6	45.0-153			1.84	22
Benzene	5.00	4.79	4.88	95.8	97.6	70.0-123			1.86	20
Bromobenzene	5.00	5.84	5.84	117	117	73.0-121			0.000	20
Bromodichloromethane	5.00	5.59	5.44	112	109	73.0-121			2.72	20
Bromoform	5.00	5.92	5.31	118	106	64.0-132			10.9	20
Bromomethane	5.00	5.81	5.58	116	112	56.0-147			4.04	20
n-Butylbenzene	5.00	5.15	4.78	103	95.6	68.0-135			7.45	20
sec-Butylbenzene	5.00	5.31	5.17	106	103	74.0-130			2.67	20
tert-Butylbenzene	5.00	5.45	5.62	109	112	75.0-127			3.07	20
Carbon tetrachloride	5.00	6.48	6.17	130	123	66.0-128	J4		4.90	20
Chlorobenzene	5.00	5.37	5.01	107	100	76.0-128			6.94	20
Chlorodibromomethane	5.00	5.76	5.22	115	104	74.0-127			9.84	20
Chloroethane	5.00	5.54	5.46	111	109	61.0-134			1.45	20
Chloroform	5.00	5.44	5.32	109	106	72.0-123			2.23	20
Chloromethane	5.00	4.80	4.54	96.0	90.8	51.0-138			5.57	20
2-Chlorotoluene	5.00	5.37	5.59	107	112	75.0-124			4.01	20
4-Chlorotoluene	5.00	5.34	5.48	107	110	75.0-124			2.59	20
1,2-Dibromo-3-Chloropropane	5.00	4.34	4.71	86.8	94.2	59.0-130			8.18	20
1,2-Dibromoethane	5.00	5.21	5.12	104	102	74.0-128			1.74	20
Dibromomethane	5.00	4.97	5.07	99.4	101	75.0-122			1.99	20
1,2-Dichlorobenzene	5.00	5.31	5.16	106	103	76.0-124			2.87	20
1,3-Dichlorobenzene	5.00	5.68	5.55	114	111	76.0-125			2.32	20
1,4-Dichlorobenzene	5.00	5.38	5.23	108	105	77.0-121			2.83	20
Dichlorodifluoromethane	5.00	6.11	5.89	122	118	43.0-156			3.67	20
1,1-Dichloroethane	5.00	5.32	5.24	106	105	70.0-127			1.52	20
1,2-Dichloroethane	5.00	5.72	5.54	114	111	65.0-131			3.20	20
1,1-Dichloroethene	5.00	5.65	5.18	113	104	65.0-131			8.68	20
cis-1,2-Dichloroethene	5.00	5.45	5.44	109	109	73.0-125			0.184	20
trans-1,2-Dichloroethene	5.00	5.57	5.40	111	108	71.0-125			3.10	20
1,2-Dichloropropane	5.00	5.17	4.88	103	97.6	74.0-125			5.77	20
1,1-Dichloropropene	5.00	5.33	5.31	107	106	73.0-125			0.376	20
1,3-Dichloropropane	5.00	5.09	5.04	102	101	80.0-125			0.987	20
cis-1,3-Dichloropropene	5.00	5.79	5.25	116	105	76.0-127			9.78	20
trans-1,3-Dichloropropene	5.00	5.58	5.38	112	108	73.0-127			3.65	20
2,2-Dichloropropane	5.00	5.27	5.23	105	105	59.0-135			0.762	20
Di-isopropyl ether	5.00	4.93	4.86	98.6	97.2	60.0-136			1.43	20
Ethylbenzene	5.00	5.37	5.31	107	106	74.0-126			1.12	20
Hexachloro-1,3-butadiene	5.00	5.72	5.45	114	109	57.0-150			4.83	20
Isopropylbenzene	5.00	5.83	4.91	117	98.2	72.0-127			17.1	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3765552-1 03/01/22 20:26 • (LCSD) R3765552-2 03/01/22 20:45

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
p-Isopropyltoluene	5.00	5.70	5.58	114	112	72.0-133			2.13	20
2-Butanone (MEK)	25.0	23.6	22.7	94.4	90.8	30.0-160			3.89	24
Methylene Chloride	5.00	4.96	4.89	99.2	97.8	68.0-123			1.42	20
4-Methyl-2-pentanone (MIBK)	25.0	26.0	24.8	104	99.2	56.0-143			4.72	20
Methyl tert-butyl ether	5.00	5.28	5.31	106	106	66.0-132			0.567	20
Naphthalene	5.00	4.18	4.16	83.6	83.2	59.0-130			0.480	20
n-Propylbenzene	5.00	5.30	5.19	106	104	74.0-126			2.10	20
Styrene	5.00	5.46	4.85	109	97.0	72.0-127			11.8	20
1,1,1,2-Tetrachloroethane	5.00	5.81	5.08	116	102	74.0-129			13.4	20
1,1,2,2-Tetrachloroethane	5.00	4.50	4.31	90.0	86.2	68.0-128			4.31	20
1,1,2-Trichlorotrifluoroethane	5.00	5.75	5.48	115	110	61.0-139			4.81	20
Tetrachloroethene	5.00	5.77	5.23	115	105	70.0-136			9.82	20
Toluene	5.00	4.87	4.47	97.4	89.4	75.0-121			8.57	20
1,2,3-Trichlorobenzene	5.00	4.42	4.44	88.4	88.8	59.0-139			0.451	20
1,2,4-Trichlorobenzene	5.00	5.17	4.67	103	93.4	62.0-137			10.2	20
1,1,1-Trichloroethane	5.00	5.98	5.57	120	111	69.0-126			7.10	20
1,1,2-Trichloroethane	5.00	5.21	4.66	104	93.2	78.0-123			11.1	20
Trichloroethene	5.00	5.83	5.69	117	114	76.0-126			2.43	20
Trichlorofluoromethane	5.00	6.44	5.96	129	119	61.0-142			7.74	20
1,2,3-Trichloropropane	5.00	5.37	6.03	107	121	67.0-129			11.6	20
1,2,4-Trimethylbenzene	5.00	5.60	5.60	112	112	70.0-126			0.000	20
1,2,3-Trimethylbenzene	5.00	5.24	5.24	105	105	74.0-124			0.000	20
1,3,5-Trimethylbenzene	5.00	5.57	5.41	111	108	73.0-127			2.91	20
Vinyl chloride	5.00	5.20	4.92	104	98.4	63.0-134			5.53	20
Xylenes, Total	15.0	16.4	14.5	109	96.7	72.0-127			12.3	20
Ethyl ether	5.00	5.56	5.06	111	101	64.0-137			9.42	20
Tetrahydrofuran	5.00	5.92	6.28	118	126	37.0-146			5.90	24
Iodomethane	25.0	28.7	28.8	115	115	74.0-134			0.348	20
Allyl chloride	25.0	28.5	28.2	114	113	70.0-131			1.06	20
trans-1,4-Dichloro-2-butene	5.00	5.30	5.54	106	111	45.0-143			4.43	20
(S) Toluene-d8				103	93.4	75.0-131				
(S) 4-Bromofluorobenzene				104	92.0	67.0-138				
(S) 1,2-Dichloroethane-d4				107	110	70.0-130				

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3765553-3 03/01/22 21:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00
Isopropylbenzene	U		0.0345	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3765553-3 03/01/22 21:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	0.107	U	0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Ethyl ether	U		0.0170	0.100
Tetrahydrofuran	U		0.0900	0.500
Iodomethane	U		0.242	0.500
Allyl Chloride	U		0.580	1.00
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
(S) Toluene-d8	96.6			75.0-131
(S) 4-Bromofluorobenzene	99.1			67.0-138
(S) 1,2-Dichloroethane-d4	107			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3765553-1 03/01/22 20:26 • (LCSD) R3765553-2 03/01/22 20:45

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	36.0	33.9	144	136	10.0-160			6.01	31
Acrylonitrile	25.0	21.5	21.9	86.0	87.6	45.0-153			1.84	22
Benzene	5.00	4.79	4.88	95.8	97.6	70.0-123			1.86	20
Bromobenzene	5.00	5.84	5.84	117	117	73.0-121			0.000	20
Bromodichloromethane	5.00	5.59	5.44	112	109	73.0-121			2.72	20
Bromoform	5.00	5.92	5.31	118	106	64.0-132			10.9	20
Bromomethane	5.00	5.81	5.58	116	112	56.0-147			4.04	20
n-Butylbenzene	5.00	5.15	4.78	103	95.6	68.0-135			7.45	20
sec-Butylbenzene	5.00	5.31	5.17	106	103	74.0-130			2.67	20
tert-Butylbenzene	5.00	5.45	5.62	109	112	75.0-127			3.07	20
Carbon tetrachloride	5.00	6.48	6.17	130	123	66.0-128	J4		4.90	20
Chlorobenzene	5.00	5.37	5.01	107	100	76.0-128			6.94	20
Chlorodibromomethane	5.00	5.76	5.22	115	104	74.0-127			9.84	20
Chloroethane	5.00	5.54	5.46	111	109	61.0-134			1.45	20
Chloroform	5.00	5.44	5.32	109	106	72.0-123			2.23	20
Chloromethane	5.00	4.80	4.54	96.0	90.8	51.0-138			5.57	20
2-Chlorotoluene	5.00	5.37	5.59	107	112	75.0-124			4.01	20
4-Chlorotoluene	5.00	5.34	5.48	107	110	75.0-124			2.59	20
1,2-Dibromo-3-Chloropropane	5.00	4.34	4.71	86.8	94.2	59.0-130			8.18	20
1,2-Dibromoethane	5.00	5.21	5.12	104	102	74.0-128			1.74	20
Dibromomethane	5.00	4.97	5.07	99.4	101	75.0-122			1.99	20
1,2-Dichlorobenzene	5.00	5.31	5.16	106	103	76.0-124			2.87	20
1,3-Dichlorobenzene	5.00	5.68	5.55	114	111	76.0-125			2.32	20
1,4-Dichlorobenzene	5.00	5.38	5.23	108	105	77.0-121			2.83	20
Dichlorodifluoromethane	5.00	6.11	5.89	122	118	43.0-156			3.67	20
1,1-Dichloroethane	5.00	5.32	5.24	106	105	70.0-127			1.52	20
1,2-Dichloroethane	5.00	5.72	5.54	114	111	65.0-131			3.20	20
1,1-Dichloroethene	5.00	5.65	5.18	113	104	65.0-131			8.68	20
cis-1,2-Dichloroethene	5.00	5.45	5.44	109	109	73.0-125			0.184	20
trans-1,2-Dichloroethene	5.00	5.57	5.40	111	108	71.0-125			3.10	20
1,2-Dichloropropane	5.00	5.17	4.88	103	97.6	74.0-125			5.77	20
1,1-Dichloropropene	5.00	5.33	5.31	107	106	73.0-125			0.376	20
1,3-Dichloropropane	5.00	5.09	5.04	102	101	80.0-125			0.987	20
cis-1,3-Dichloropropene	5.00	5.79	5.25	116	105	76.0-127			9.78	20
trans-1,3-Dichloropropene	5.00	5.58	5.38	112	108	73.0-127			3.65	20
2,2-Dichloropropane	5.00	5.27	5.23	105	105	59.0-135			0.762	20
Di-isopropyl ether	5.00	4.93	4.86	98.6	97.2	60.0-136			1.43	20
Ethylbenzene	5.00	5.37	5.31	107	106	74.0-126			1.12	20
Hexachloro-1,3-butadiene	5.00	5.72	5.45	114	109	57.0-150			4.83	20
Isopropylbenzene	5.00	5.83	4.91	117	98.2	72.0-127			17.1	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3765553-1 03/01/22 20:26 • (LCSD) R3765553-2 03/01/22 20:45

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
p-Isopropyltoluene	5.00	5.70	5.58	114	112	72.0-133			2.13	20
2-Butanone (MEK)	25.0	23.6	22.7	94.4	90.8	30.0-160			3.89	24
Methylene Chloride	5.00	4.96	4.89	99.2	97.8	68.0-123			1.42	20
4-Methyl-2-pentanone (MIBK)	25.0	26.0	24.8	104	99.2	56.0-143			4.72	20
Methyl tert-butyl ether	5.00	5.28	5.31	106	106	66.0-132			0.567	20
Naphthalene	5.00	4.18	4.16	83.6	83.2	59.0-130			0.480	20
n-Propylbenzene	5.00	5.30	5.19	106	104	74.0-126			2.10	20
Styrene	5.00	5.46	4.85	109	97.0	72.0-127			11.8	20
1,1,1,2-Tetrachloroethane	5.00	5.81	5.08	116	102	74.0-129			13.4	20
1,1,2,2-Tetrachloroethane	5.00	4.50	4.31	90.0	86.2	68.0-128			4.31	20
1,1,2-Trichlorotrifluoroethane	5.00	5.75	5.48	115	110	61.0-139			4.81	20
Tetrachloroethene	5.00	5.77	5.23	115	105	70.0-136			9.82	20
Toluene	5.00	4.87	4.47	97.4	89.4	75.0-121			8.57	20
1,2,3-Trichlorobenzene	5.00	4.42	4.44	88.4	88.8	59.0-139			0.451	20
1,2,4-Trichlorobenzene	5.00	5.17	4.67	103	93.4	62.0-137			10.2	20
1,1,1-Trichloroethane	5.00	5.98	5.57	120	111	69.0-126			7.10	20
1,1,2-Trichloroethane	5.00	5.21	4.66	104	93.2	78.0-123			11.1	20
Trichloroethene	5.00	5.83	5.69	117	114	76.0-126			2.43	20
Trichlorofluoromethane	5.00	6.44	5.96	129	119	61.0-142			7.74	20
1,2,3-Trichloropropane	5.00	5.37	6.03	107	121	67.0-129			11.6	20
1,2,4-Trimethylbenzene	5.00	5.60	5.60	112	112	70.0-126			0.000	20
1,2,3-Trimethylbenzene	5.00	5.24	5.24	105	105	74.0-124			0.000	20
1,3,5-Trimethylbenzene	5.00	5.57	5.41	111	108	73.0-127			2.91	20
Vinyl chloride	5.00	5.20	4.92	104	98.4	63.0-134			5.53	20
Xylenes, Total	15.0	16.4	14.5	109	96.7	72.0-127			12.3	20
Ethyl ether	5.00	5.56	5.06	111	101	64.0-137			9.42	20
Tetrahydrofuran	5.00	5.92	6.28	118	126	37.0-146			5.90	24
Iodomethane	25.0	28.7	28.8	115	115	74.0-134			0.348	20
Allyl chloride	25.0	28.5	28.2	114	113	70.0-131			1.06	20
trans-1,4-Dichloro-2-butene	5.00	5.30	5.54	106	111	45.0-143			4.43	20
(S) Toluene-d8				103	93.4	75.0-131				
(S) 4-Bromofluorobenzene				104	92.0	67.0-138				
(S) 1,2-Dichloroethane-d4				107	110	70.0-130				

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3765747-3 03/02/22 22:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
(S) Toluene-d8	118			75.0-131
(S) 4-Bromofluorobenzene	107			67.0-138
(S) 1,2-Dichloroethane-d4	87.1			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3765747-1 03/02/22 21:13 • (LCSD) R3765747-2 03/02/22 21:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	5.00	5.04	4.24	101	84.8	73.0-125			17.2	20
(S) Toluene-d8				97.5	99.2	75.0-131				
(S) 4-Bromofluorobenzene				102	102	67.0-138				
(S) 1,2-Dichloroethane-d4				85.7	87.8	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

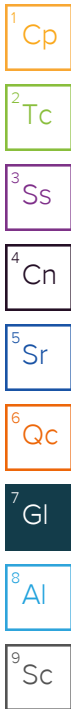
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J4	The associated batch QC was outside the established quality control range for accuracy.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address: **PES Environmental, Inc.- WA**
 2101 Fourth Ave., Suite 1310
 Seattle, WA 98121

Billing Information:
 Attn: Accounts Payable
 2101 4th Avenue, Suite 1310
 Seattle, WA 98121

Report to: **Brian O'Neal/Bill Haldeman**
 Email To: **Shannon.McKernan@nv5.com;brian.oneal@nv5.com**

Project Description: **American Linen**
 City/State Collected: **SEATTLE WA**
 Please Circle: PT MT CT ET

Chain of Custody Page 1 of 2

Pace
 PEOPLE ADVANCING SCIENCE

MT JULIET, TN
 12065 Lebanon Rd. Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Phone: **206-529-3980**
 Client Project #: **1413.001.02.501**
 Lab Project #: **PESENVSWA-ALP**

Collected by (print): **RH Loughlin/H. Cohen**
 Site/Facility ID #: **443018-1413001.05.601**

Collected by (signature): *[Signature]*
 P.O. #: **443018-1413001.05.601**

Quote #
 Date Results Needed

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Immediately Packed on Ice N Y

Analysis / Container / Preservative	Pres Chk
ALK 125mlHDPE-NoPres No ALKALINITY	
FEG, MNG 250mlHDPE-HNO3	
FEG, MNG 250mlHDPE-HNO3	
NWTPHGX 40mlAmb HCl	
RSK175LL 40mlAmb-HCl	
SULFATE 125mlHDPE-NoPres	
TOC 250mlHDPE-HCl	
V8260ULLC 40mlAmb-HCl	

SDG # **L1465487**

G203

ACCUMUM: **PESENVSWA**
 Template: **T203400**
 Prelogin: **P903823**
 PM: **546 - Jared Starkey**
 PB: **AP 2-8-22**

Shipped Via:
 Remarks Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	ALK 125mlHDPE-NoPres No ALKALINITY	FEG, MNG 250mlHDPE-HNO3	FEG, MNG 250mlHDPE-HNO3	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	SULFATE 125mlHDPE-NoPres	TOC 250mlHDPE-HCl	V8260ULLC 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-165-022222	Grab	GW	23	2/22/22	1105	3								X		-01
MW-176-022222		GW	60		1107	3								X		-02
MW-166-022222		GW	31.5		1200	3								X		-03
MW-167-022222		GW	47		1250	3								X		-04
MW-175-022222		GW	46		1300	3								X		-05
MW-168-022222		GW	62		1355	3								X		-06
MW121-022222		GW	22	2/27/22	1430	6			X					X		-07
MW-965-022322		GW	22	2/23/22	830	8		X	X	X	X	X	X	X		-08
R-MW6-022322		GW	18.5		1003	8		X		X	X	X	X	X		-09
MW-161-022322	Grab	GW	135	2/23/22	1030	8	X	X		X	X	X	X	X		-10

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:

Samples returned via:
 UPS FedEx Courier

Tracking # **552859467690**

pH _____ Temp _____
 Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N

If Applicable
 VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature) *[Signature]* Date: **2/23/22** Time: **1600**
 Received by: (Signature) *[Signature]* Trip Blank Received: Yes/No **No**
 HCL / MeOH TBR

Relinquished by: (Signature) Date: _____ Time: _____
 Received by: (Signature) *[Signature]* Trip Blank Received: Yes/No **No**
 HCL / MeOH TBR

Relinquished by: (Signature) Date: _____ Time: _____
 Received for lab by: (Signature) *[Signature]* Date: **2/25/22** Time: **0738**
 Hold: _____ Condition: **NCF / OK**

Company Name/Address: **PES Environmental, Inc.- WA**
 2101 Fourth Ave., Suite 1310
 Seattle, WA 98121

Billing Information:
 Attn: Accounts Payable
 2101 4th Avenue, Suite 1310
 Seattle, WA 98121

Report to:
 Brian O'Neal/Bill Haldeman

Email To:
 Shannon.McKernan@nv5.com;brian.oneal@nv5

Project Description:
 American Linen

City/State Collected: **SEATTLE, WA**

Please Circle:
 PT MT CT ET

Chain of Custody Page **2** of **2**

Pace
 PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd. Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Phone: **206-529-3980**

Client Project #
1413.001.02.501

Lab Project #
PESENVSWA-ALP

Collected by (print):
R. McLaughlin/H. Cohen

Site/Facility ID #

P.O. #
443018-1413001.05.601

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Date Results Needed

Immediately Packed on Ice N Y

No. of Cntrs

Analysis / Container / Preservative	ALK-125mlHDPE-NoPres	FEG, MNG 250mlHDPE-HNO3	FEG, MNG 250mlHDPE-HNO3	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	SULFATE 125mlHDPE-NoPres	TOC 250mlHDPE-HCl	V8260ULLC 40mlAmb-HCl
ALKALINITY	X	X						
	X	X						
	X	X						
	X	X						
	X	X						
	X	X						
	X	X						
	X	X						

SDG # **U465487**

Table #

Acctnum: **PESENVSWA**

Template: **T203400**

Prelogin: **P903823**

PM: **546 - Jared Starkey**

PB: **AP 2.8.22**

Shipped Via:

Remarks

Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK-125mlHDPE-NoPres	FEG, MNG 250mlHDPE-HNO3	FEG, MNG 250mlHDPE-HNO3	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	SULFATE 125mlHDPE-NoPres	TOC 250mlHDPE-HCl	V8260ULLC 40mlAmb-HCl	Remarks	Sample # (lab only)
MW104-022322	Grab	GW	124	2/23/22	1150	8	X	X			X	X	X	X		-11
MW107-022322	↓	GW	40	↓	1210	8	X	X			X	X	X	X		-12
MW-160-022322	↓	GW	123	↓	1345	8	X	X			X	X	X	X		-13
MW-144R-022322	↓	GW	45	↓	1355	8	X	X			X	X	X	X		-14
FMW-141-022322	Grab	GW	52	2/23/22	1545	3	(RN)							X		-15
TB-022322	Grab	GW	—	2/23/22	—	2				X				X		-16
		GW														
		GW														
		GW														
		GW														

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
 UPS FedEx Courier

Tracking # **552859467690**

Sample Receipt Checklist

COC Seal Present/Intact: Y N

COC Signed/Accurate: Y N

Bottles arrive intact: Y N

Correct bottles used: Y N

Sufficient volume sent: Y N

If Applicable

VOA Zero Headspace: Y N

Preservation Correct/Checked: Y N

RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature) *[Signature]* Date: **2/23/22** Time: **1600**

Received by: (Signature) _____ Trip Blank Received: **2** Yes / No HCL / MeOH TBR

Relinquished by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) _____ Temp: **22.0°C** Bottles Received: **8**

Relinquished by: (Signature) _____ Date: _____ Time: _____

Received for lab by: (Signature) *[Signature]* Date: **4/25/22** Time: **0930**

Hold: _____ Condition: **NCF / OK**

March 04, 2022

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

PES Environmental, Inc.- WA

Sample Delivery Group: L1465723
Samples Received: 02/26/2022
Project Number: 1413.001.02.501
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:



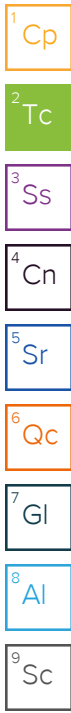
Jared Starkey
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
MW-966-022422 L1465723-01	6
R-MW5-022422 L1465723-02	8
MW105-022422 L1465723-03	10
FMW-131-022522 L1465723-04	12
GEI-2-022522 L1465723-05	14
MW128-022522 L1465723-06	16
MW-329-022522 L1465723-07	18
Qc: Quality Control Summary	20
Wet Chemistry by Method 300.0	20
Wet Chemistry by Method 9060A	21
Metals (ICPMS) by Method 6020B	22
Volatile Organic Compounds (GC) by Method NWTPHGX	23
Volatile Organic Compounds (GC) by Method RSK175	24
Volatile Organic Compounds (GC/MS) by Method 8260D	25
Gl: Glossary of Terms	30
Al: Accreditations & Locations	31
Sc: Sample Chain of Custody	32

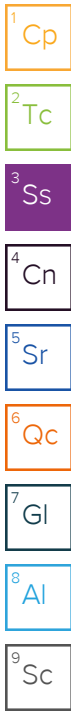


SAMPLE SUMMARY

MW-966-022422 L1465723-01 GW

Collected by R.T. McLaughlin Collected date/time 02/24/22 08:00 Received date/time 02/26/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1824592	1	02/27/22 20:02	02/27/22 20:02	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1826609	1	03/03/22 16:00	03/03/22 16:00	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1824401	1	03/02/22 03:17	03/03/22 16:37	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1825104	1	03/01/22 01:44	03/01/22 01:44	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1825932	1	03/04/22 10:18	03/04/22 10:18	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1825305	1	03/01/22 23:55	03/01/22 23:55	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1826259	1	03/03/22 00:48	03/03/22 00:48	BMB	Mt. Juliet, TN



R-MW5-022422 L1465723-02 GW

Collected by R.T. McLaughlin Collected date/time 02/24/22 10:10 Received date/time 02/26/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1824592	1	02/27/22 20:16	02/27/22 20:16	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1826609	1	03/03/22 17:24	03/03/22 17:24	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1824401	1	03/02/22 03:17	03/03/22 16:41	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1825104	1	03/01/22 02:06	03/01/22 02:06	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1825932	1	03/04/22 10:21	03/04/22 10:21	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1825305	1	03/02/22 00:14	03/02/22 00:14	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1826259	1	03/03/22 01:08	03/03/22 01:08	BMB	Mt. Juliet, TN

MW105-022422 L1465723-03 GW

Collected by R.T. McLaughlin Collected date/time 02/24/22 14:20 Received date/time 02/26/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1824592	1	02/27/22 20:46	02/27/22 20:46	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1826609	1	03/03/22 17:43	03/03/22 17:43	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1824401	1	03/02/22 03:17	03/03/22 16:44	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1825932	1	03/04/22 10:25	03/04/22 10:25	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1825305	1	03/02/22 00:33	03/02/22 00:33	DWR	Mt. Juliet, TN

FMW-131-022522 L1465723-04 GW

Collected by R.T. McLaughlin Collected date/time 02/25/22 09:20 Received date/time 02/26/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1825305	1	03/02/22 00:52	03/02/22 00:52	DWR	Mt. Juliet, TN

GEI-2-022522 L1465723-05 GW

Collected by R.T. McLaughlin Collected date/time 02/25/22 10:32 Received date/time 02/26/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1825305	1	03/02/22 01:11	03/02/22 01:11	DWR	Mt. Juliet, TN

MW128-022522 L1465723-06 GW

Collected by R.T. McLaughlin Collected date/time 02/25/22 12:25 Received date/time 02/26/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1825305	1	03/02/22 01:30	03/02/22 01:30	DWR	Mt. Juliet, TN

SAMPLE SUMMARY

MW-329-022522 L1465723-07 GW

Collected by R.T. McLaughlin
Collected date/time 02/25/22 13:05
Received date/time 02/26/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1825305	1	03/02/22 01:49	03/02/22 01:49	DWR	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jared Starkey
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Sulfate	8370		594	5000	1	02/27/2022 20:02	WG1824592

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
TOC (Total Organic Carbon)	1720		102	1000	1	03/03/2022 16:00	WG1826609

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Iron	2140		28.1	100	1	03/03/2022 16:37	WG1824401
Manganese	406		0.704	5.00	1	03/03/2022 16:37	WG1824401

Volatile Organic Compounds (GC) by Method NWTPHGX

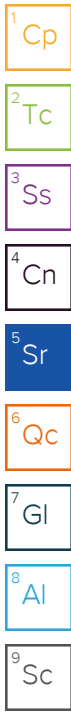
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	34.8	<u>B_J</u>	31.6	100	1	03/01/2022 01:44	WG1825104
^(S) a,a,a-Trifluorotoluene(FID)	95.5			78.0-120		03/01/2022 01:44	WG1825104

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Methane	1240		0.287	0.678	1	03/04/2022 10:18	WG1825932
Ethane	U		0.296	1.29	1	03/04/2022 10:18	WG1825932
Ethene	U		0.422	1.27	1	03/04/2022 10:18	WG1825932

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Acetone	2.56	<u>C5</u>	0.548	1.00	1	03/01/2022 23:55	WG1825305
Acrylonitrile	U		0.0760	0.500	1	03/01/2022 23:55	WG1825305
Benzene	U		0.0160	0.0400	1	03/01/2022 23:55	WG1825305
Bromobenzene	U		0.0420	0.500	1	03/01/2022 23:55	WG1825305
Bromodichloromethane	U		0.0315	0.100	1	03/01/2022 23:55	WG1825305
Bromoform	U		0.239	1.00	1	03/01/2022 23:55	WG1825305
Bromomethane	U		0.148	0.500	1	03/01/2022 23:55	WG1825305
n-Butylbenzene	U		0.153	0.500	1	03/01/2022 23:55	WG1825305
sec-Butylbenzene	U		0.101	0.500	1	03/01/2022 23:55	WG1825305
tert-Butylbenzene	U		0.0620	0.200	1	03/01/2022 23:55	WG1825305
Carbon tetrachloride	U	<u>J4</u>	0.0432	0.200	1	03/01/2022 23:55	WG1825305
Chlorobenzene	U		0.0229	0.100	1	03/01/2022 23:55	WG1825305
Chlorodibromomethane	U		0.0180	0.100	1	03/01/2022 23:55	WG1825305
Chloroethane	U		0.0432	0.200	1	03/01/2022 23:55	WG1825305
Chloroform	U		0.0166	0.100	1	03/01/2022 23:55	WG1825305
Chloromethane	U		0.0556	0.500	1	03/01/2022 23:55	WG1825305
2-Chlorotoluene	U		0.0368	0.100	1	03/01/2022 23:55	WG1825305
4-Chlorotoluene	U		0.0452	0.200	1	03/01/2022 23:55	WG1825305
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/01/2022 23:55	WG1825305
1,2-Dibromoethane	U		0.0210	0.100	1	03/01/2022 23:55	WG1825305
Dibromomethane	U		0.0400	0.200	1	03/01/2022 23:55	WG1825305
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/01/2022 23:55	WG1825305
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/01/2022 23:55	WG1825305



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/01/2022 23:55	WG1825305
Dichlorodifluoromethane	U		0.0327	0.100	1	03/01/2022 23:55	WG1825305
1,1-Dichloroethane	U		0.0230	0.100	1	03/01/2022 23:55	WG1825305
1,2-Dichloroethane	U		0.0190	0.100	1	03/01/2022 23:55	WG1825305
1,1-Dichloroethene	U		0.0200	0.100	1	03/01/2022 23:55	WG1825305
cis-1,2-Dichloroethene	0.324		0.0276	0.100	1	03/03/2022 00:48	WG1826259
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/01/2022 23:55	WG1825305
1,2-Dichloropropane	U		0.0508	0.200	1	03/01/2022 23:55	WG1825305
1,1-Dichloropropene	U		0.0280	0.100	1	03/01/2022 23:55	WG1825305
1,3-Dichloropropane	U		0.0700	0.200	1	03/01/2022 23:55	WG1825305
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/01/2022 23:55	WG1825305
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/01/2022 23:55	WG1825305
2,2-Dichloropropane	U		0.0317	0.100	1	03/01/2022 23:55	WG1825305
Di-isopropyl ether	U		0.0140	0.0400	1	03/01/2022 23:55	WG1825305
Ethylbenzene	U		0.0212	0.100	1	03/01/2022 23:55	WG1825305
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/01/2022 23:55	WG1825305
Isopropylbenzene	U		0.0345	0.100	1	03/01/2022 23:55	WG1825305
p-Isopropyltoluene	U		0.0932	0.200	1	03/01/2022 23:55	WG1825305
2-Butanone (MEK)	U		0.500	1.00	1	03/01/2022 23:55	WG1825305
Methylene Chloride	U		0.265	1.00	1	03/01/2022 23:55	WG1825305
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/01/2022 23:55	WG1825305
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/01/2022 23:55	WG1825305
Naphthalene	U		0.124	0.500	1	03/01/2022 23:55	WG1825305
n-Propylbenzene	U		0.0472	0.200	1	03/01/2022 23:55	WG1825305
Styrene	U		0.109	0.500	1	03/01/2022 23:55	WG1825305
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/01/2022 23:55	WG1825305
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/01/2022 23:55	WG1825305
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/01/2022 23:55	WG1825305
Tetrachloroethene	0.650		0.0280	0.100	1	03/01/2022 23:55	WG1825305
Toluene	U		0.0500	0.200	1	03/01/2022 23:55	WG1825305
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/01/2022 23:55	WG1825305
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/01/2022 23:55	WG1825305
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/01/2022 23:55	WG1825305
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/01/2022 23:55	WG1825305
Trichloroethene	0.301		0.0160	0.0400	1	03/01/2022 23:55	WG1825305
Trichlorofluoromethane	U		0.0200	0.100	1	03/01/2022 23:55	WG1825305
1,2,3-Trichloropropane	U		0.204	0.500	1	03/01/2022 23:55	WG1825305
1,2,4-Trimethylbenzene	0.0780	<u>B J</u>	0.0464	0.200	1	03/01/2022 23:55	WG1825305
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/01/2022 23:55	WG1825305
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/01/2022 23:55	WG1825305
Vinyl chloride	U		0.0273	0.100	1	03/01/2022 23:55	WG1825305
Xylenes, Total	U		0.191	0.260	1	03/01/2022 23:55	WG1825305
Ethyl Ether	U		0.0170	0.100	1	03/01/2022 23:55	WG1825305
Tetrahydrofuran	U		0.0900	0.500	1	03/01/2022 23:55	WG1825305
Iodomethane	U		0.242	0.500	1	03/01/2022 23:55	WG1825305
Allyl chloride	U		0.580	1.00	1	03/01/2022 23:55	WG1825305
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/01/2022 23:55	WG1825305
(S) Toluene-d8	99.6			75.0-131		03/01/2022 23:55	WG1825305
(S) Toluene-d8	97.5			75.0-131		03/03/2022 00:48	WG1826259
(S) 4-Bromofluorobenzene	99.8			67.0-138		03/01/2022 23:55	WG1825305
(S) 4-Bromofluorobenzene	84.3			67.0-138		03/03/2022 00:48	WG1826259
(S) 1,2-Dichloroethane-d4	109			70.0-130		03/01/2022 23:55	WG1825305
(S) 1,2-Dichloroethane-d4	81.0			70.0-130		03/03/2022 00:48	WG1826259

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	8420		594	5000	1	02/27/2022 20:16	WG1824592

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1600		102	1000	1	03/03/2022 17:24	WG1826609

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2910		28.1	100	1	03/03/2022 16:41	WG1824401
Manganese	437		0.704	5.00	1	03/03/2022 16:41	WG1824401

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	36.2	<u>B_J</u>	31.6	100	1	03/01/2022 02:06	WG1825104
^(S) a,a,a-Trifluorotoluene(FID)	95.9			78.0-120		03/01/2022 02:06	WG1825104

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	1210		0.287	0.678	1	03/04/2022 10:21	WG1825932
Ethane	U		0.296	1.29	1	03/04/2022 10:21	WG1825932
Ethene	U		0.422	1.27	1	03/04/2022 10:21	WG1825932

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	03/02/2022 00:14	WG1825305
Acrylonitrile	U		0.0760	0.500	1	03/02/2022 00:14	WG1825305
Benzene	U		0.0160	0.0400	1	03/02/2022 00:14	WG1825305
Bromobenzene	U		0.0420	0.500	1	03/02/2022 00:14	WG1825305
Bromodichloromethane	U		0.0315	0.100	1	03/02/2022 00:14	WG1825305
Bromoform	U		0.239	1.00	1	03/02/2022 00:14	WG1825305
Bromomethane	U		0.148	0.500	1	03/02/2022 00:14	WG1825305
n-Butylbenzene	U		0.153	0.500	1	03/02/2022 00:14	WG1825305
sec-Butylbenzene	U		0.101	0.500	1	03/02/2022 00:14	WG1825305
tert-Butylbenzene	U		0.0620	0.200	1	03/02/2022 00:14	WG1825305
Carbon tetrachloride	U	<u>J4</u>	0.0432	0.200	1	03/02/2022 00:14	WG1825305
Chlorobenzene	U		0.0229	0.100	1	03/02/2022 00:14	WG1825305
Chlorodibromomethane	U		0.0180	0.100	1	03/02/2022 00:14	WG1825305
Chloroethane	U		0.0432	0.200	1	03/02/2022 00:14	WG1825305
Chloroform	U		0.0166	0.100	1	03/02/2022 00:14	WG1825305
Chloromethane	U		0.0556	0.500	1	03/02/2022 00:14	WG1825305
2-Chlorotoluene	U		0.0368	0.100	1	03/02/2022 00:14	WG1825305
4-Chlorotoluene	U		0.0452	0.200	1	03/02/2022 00:14	WG1825305
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/02/2022 00:14	WG1825305
1,2-Dibromoethane	U		0.0210	0.100	1	03/02/2022 00:14	WG1825305
Dibromomethane	U		0.0400	0.200	1	03/02/2022 00:14	WG1825305
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/02/2022 00:14	WG1825305
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/02/2022 00:14	WG1825305

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/02/2022 00:14	WG1825305
Dichlorodifluoromethane	U		0.0327	0.100	1	03/02/2022 00:14	WG1825305
1,1-Dichloroethane	U		0.0230	0.100	1	03/02/2022 00:14	WG1825305
1,2-Dichloroethane	U		0.0190	0.100	1	03/02/2022 00:14	WG1825305
1,1-Dichloroethene	U		0.0200	0.100	1	03/02/2022 00:14	WG1825305
cis-1,2-Dichloroethene	0.198		0.0276	0.100	1	03/03/2022 01:08	WG1826259
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/02/2022 00:14	WG1825305
1,2-Dichloropropane	U		0.0508	0.200	1	03/02/2022 00:14	WG1825305
1,1-Dichloropropene	U		0.0280	0.100	1	03/02/2022 00:14	WG1825305
1,3-Dichloropropane	U		0.0700	0.200	1	03/02/2022 00:14	WG1825305
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/02/2022 00:14	WG1825305
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/02/2022 00:14	WG1825305
2,2-Dichloropropane	U		0.0317	0.100	1	03/02/2022 00:14	WG1825305
Di-isopropyl ether	U		0.0140	0.0400	1	03/02/2022 00:14	WG1825305
Ethylbenzene	U		0.0212	0.100	1	03/02/2022 00:14	WG1825305
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/02/2022 00:14	WG1825305
Isopropylbenzene	U		0.0345	0.100	1	03/02/2022 00:14	WG1825305
p-Isopropyltoluene	U		0.0932	0.200	1	03/02/2022 00:14	WG1825305
2-Butanone (MEK)	U		0.500	1.00	1	03/02/2022 00:14	WG1825305
Methylene Chloride	U		0.265	1.00	1	03/02/2022 00:14	WG1825305
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/02/2022 00:14	WG1825305
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/02/2022 00:14	WG1825305
Naphthalene	U		0.124	0.500	1	03/02/2022 00:14	WG1825305
n-Propylbenzene	U		0.0472	0.200	1	03/02/2022 00:14	WG1825305
Styrene	U		0.109	0.500	1	03/02/2022 00:14	WG1825305
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/02/2022 00:14	WG1825305
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/02/2022 00:14	WG1825305
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/02/2022 00:14	WG1825305
Tetrachloroethene	0.569		0.0280	0.100	1	03/02/2022 00:14	WG1825305
Toluene	U		0.0500	0.200	1	03/02/2022 00:14	WG1825305
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/02/2022 00:14	WG1825305
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/02/2022 00:14	WG1825305
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/02/2022 00:14	WG1825305
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/02/2022 00:14	WG1825305
Trichloroethene	0.266		0.0160	0.0400	1	03/02/2022 00:14	WG1825305
Trichlorofluoromethane	U		0.0200	0.100	1	03/02/2022 00:14	WG1825305
1,2,3-Trichloropropane	U		0.204	0.500	1	03/02/2022 00:14	WG1825305
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/02/2022 00:14	WG1825305
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/02/2022 00:14	WG1825305
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/02/2022 00:14	WG1825305
Vinyl chloride	U		0.0273	0.100	1	03/02/2022 00:14	WG1825305
Xylenes, Total	U		0.191	0.260	1	03/02/2022 00:14	WG1825305
Ethyl Ether	U		0.0170	0.100	1	03/02/2022 00:14	WG1825305
Tetrahydrofuran	U		0.0900	0.500	1	03/02/2022 00:14	WG1825305
Iodomethane	U		0.242	0.500	1	03/02/2022 00:14	WG1825305
Allyl chloride	U		0.580	1.00	1	03/02/2022 00:14	WG1825305
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/02/2022 00:14	WG1825305
(S) Toluene-d8	95.0			75.0-131		03/02/2022 00:14	WG1825305
(S) Toluene-d8	98.3			75.0-131		03/03/2022 01:08	WG1826259
(S) 4-Bromofluorobenzene	96.1			67.0-138		03/02/2022 00:14	WG1825305
(S) 4-Bromofluorobenzene	96.2			67.0-138		03/03/2022 01:08	WG1826259
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/02/2022 00:14	WG1825305
(S) 1,2-Dichloroethane-d4	89.0			70.0-130		03/03/2022 01:08	WG1826259

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	10900		594	5000	1	02/27/2022 20:46	WG1824592

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2380		102	1000	1	03/03/2022 17:43	WG1826609

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	6010		28.1	100	1	03/03/2022 16:44	WG1824401
Manganese	778		0.704	5.00	1	03/03/2022 16:44	WG1824401

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	114		0.287	0.678	1	03/04/2022 10:25	WG1825932
Ethane	U		0.296	1.29	1	03/04/2022 10:25	WG1825932
Ethene	1.08	J	0.422	1.27	1	03/04/2022 10:25	WG1825932

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.47	C5	0.548	1.00	1	03/02/2022 00:33	WG1825305
Acrylonitrile	U		0.0760	0.500	1	03/02/2022 00:33	WG1825305
Benzene	U		0.0160	0.0400	1	03/02/2022 00:33	WG1825305
Bromobenzene	U		0.0420	0.500	1	03/02/2022 00:33	WG1825305
Bromodichloromethane	U		0.0315	0.100	1	03/02/2022 00:33	WG1825305
Bromoform	U		0.239	1.00	1	03/02/2022 00:33	WG1825305
Bromomethane	U		0.148	0.500	1	03/02/2022 00:33	WG1825305
n-Butylbenzene	U		0.153	0.500	1	03/02/2022 00:33	WG1825305
sec-Butylbenzene	U		0.101	0.500	1	03/02/2022 00:33	WG1825305
tert-Butylbenzene	U		0.0620	0.200	1	03/02/2022 00:33	WG1825305
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/02/2022 00:33	WG1825305
Chlorobenzene	U		0.0229	0.100	1	03/02/2022 00:33	WG1825305
Chlorodibromomethane	U		0.0180	0.100	1	03/02/2022 00:33	WG1825305
Chloroethane	U		0.0432	0.200	1	03/02/2022 00:33	WG1825305
Chloroform	U		0.0166	0.100	1	03/02/2022 00:33	WG1825305
Chloromethane	U		0.0556	0.500	1	03/02/2022 00:33	WG1825305
2-Chlorotoluene	U		0.0368	0.100	1	03/02/2022 00:33	WG1825305
4-Chlorotoluene	U		0.0452	0.200	1	03/02/2022 00:33	WG1825305
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/02/2022 00:33	WG1825305
1,2-Dibromoethane	U		0.0210	0.100	1	03/02/2022 00:33	WG1825305
Dibromomethane	U		0.0400	0.200	1	03/02/2022 00:33	WG1825305
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/02/2022 00:33	WG1825305
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/02/2022 00:33	WG1825305
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/02/2022 00:33	WG1825305
Dichlorodifluoromethane	U		0.0327	0.100	1	03/02/2022 00:33	WG1825305
1,1-Dichloroethane	U		0.0230	0.100	1	03/02/2022 00:33	WG1825305
1,2-Dichloroethane	U		0.0190	0.100	1	03/02/2022 00:33	WG1825305
1,1-Dichloroethene	0.895		0.0200	0.100	1	03/02/2022 00:33	WG1825305
cis-1,2-Dichloroethene	7.70		0.0276	0.100	1	03/02/2022 00:33	WG1825305
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/02/2022 00:33	WG1825305
1,2-Dichloropropane	U		0.0508	0.200	1	03/02/2022 00:33	WG1825305

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/02/2022 00:33	WG1825305
1,3-Dichloropropane	U		0.0700	0.200	1	03/02/2022 00:33	WG1825305
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/02/2022 00:33	WG1825305
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/02/2022 00:33	WG1825305
2,2-Dichloropropane	U		0.0317	0.100	1	03/02/2022 00:33	WG1825305
Di-isopropyl ether	U		0.0140	0.0400	1	03/02/2022 00:33	WG1825305
Ethylbenzene	U		0.0212	0.100	1	03/02/2022 00:33	WG1825305
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/02/2022 00:33	WG1825305
Isopropylbenzene	U		0.0345	0.100	1	03/02/2022 00:33	WG1825305
p-Isopropyltoluene	U		0.0932	0.200	1	03/02/2022 00:33	WG1825305
2-Butanone (MEK)	U		0.500	1.00	1	03/02/2022 00:33	WG1825305
Methylene Chloride	U		0.265	1.00	1	03/02/2022 00:33	WG1825305
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/02/2022 00:33	WG1825305
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/02/2022 00:33	WG1825305
Naphthalene	U		0.124	0.500	1	03/02/2022 00:33	WG1825305
n-Propylbenzene	U		0.0472	0.200	1	03/02/2022 00:33	WG1825305
Styrene	U		0.109	0.500	1	03/02/2022 00:33	WG1825305
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/02/2022 00:33	WG1825305
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/02/2022 00:33	WG1825305
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/02/2022 00:33	WG1825305
Tetrachloroethene	U		0.0280	0.100	1	03/02/2022 00:33	WG1825305
Toluene	0.0760	<u>J</u>	0.0500	0.200	1	03/02/2022 00:33	WG1825305
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/02/2022 00:33	WG1825305
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/02/2022 00:33	WG1825305
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/02/2022 00:33	WG1825305
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/02/2022 00:33	WG1825305
Trichloroethene	0.511		0.0160	0.0400	1	03/02/2022 00:33	WG1825305
Trichlorofluoromethane	U		0.0200	0.100	1	03/02/2022 00:33	WG1825305
1,2,3-Trichloropropane	U		0.204	0.500	1	03/02/2022 00:33	WG1825305
1,2,4-Trimethylbenzene	0.0640	<u>B J</u>	0.0464	0.200	1	03/02/2022 00:33	WG1825305
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/02/2022 00:33	WG1825305
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/02/2022 00:33	WG1825305
Vinyl chloride	0.422		0.0273	0.100	1	03/02/2022 00:33	WG1825305
Xylenes, Total	U		0.191	0.260	1	03/02/2022 00:33	WG1825305
Ethyl Ether	U		0.0170	0.100	1	03/02/2022 00:33	WG1825305
Tetrahydrofuran	U		0.0900	0.500	1	03/02/2022 00:33	WG1825305
Iodomethane	U		0.242	0.500	1	03/02/2022 00:33	WG1825305
Allyl chloride	U		0.580	1.00	1	03/02/2022 00:33	WG1825305
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/02/2022 00:33	WG1825305
(S) Toluene-d8	97.2			75.0-131		03/02/2022 00:33	WG1825305
(S) 4-Bromofluorobenzene	93.2			67.0-138		03/02/2022 00:33	WG1825305
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/02/2022 00:33	WG1825305

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.95	C5	0.548	1.00	1	03/02/2022 00:52	WG1825305
Acrylonitrile	U		0.0760	0.500	1	03/02/2022 00:52	WG1825305
Benzene	0.0590		0.0160	0.0400	1	03/02/2022 00:52	WG1825305
Bromobenzene	U		0.0420	0.500	1	03/02/2022 00:52	WG1825305
Bromodichloromethane	U		0.0315	0.100	1	03/02/2022 00:52	WG1825305
Bromoform	U		0.239	1.00	1	03/02/2022 00:52	WG1825305
Bromomethane	U		0.148	0.500	1	03/02/2022 00:52	WG1825305
n-Butylbenzene	U		0.153	0.500	1	03/02/2022 00:52	WG1825305
sec-Butylbenzene	0.214	J	0.101	0.500	1	03/02/2022 00:52	WG1825305
tert-Butylbenzene	U		0.0620	0.200	1	03/02/2022 00:52	WG1825305
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/02/2022 00:52	WG1825305
Chlorobenzene	U		0.0229	0.100	1	03/02/2022 00:52	WG1825305
Chlorodibromomethane	U		0.0180	0.100	1	03/02/2022 00:52	WG1825305
Chloroethane	U		0.0432	0.200	1	03/02/2022 00:52	WG1825305
Chloroform	U		0.0166	0.100	1	03/02/2022 00:52	WG1825305
Chloromethane	U		0.0556	0.500	1	03/02/2022 00:52	WG1825305
2-Chlorotoluene	U		0.0368	0.100	1	03/02/2022 00:52	WG1825305
4-Chlorotoluene	U		0.0452	0.200	1	03/02/2022 00:52	WG1825305
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/02/2022 00:52	WG1825305
1,2-Dibromoethane	U		0.0210	0.100	1	03/02/2022 00:52	WG1825305
Dibromomethane	U		0.0400	0.200	1	03/02/2022 00:52	WG1825305
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/02/2022 00:52	WG1825305
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/02/2022 00:52	WG1825305
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/02/2022 00:52	WG1825305
Dichlorodifluoromethane	U		0.0327	0.100	1	03/02/2022 00:52	WG1825305
1,1-Dichloroethane	U		0.0230	0.100	1	03/02/2022 00:52	WG1825305
1,2-Dichloroethane	U		0.0190	0.100	1	03/02/2022 00:52	WG1825305
1,1-Dichloroethene	U		0.0200	0.100	1	03/02/2022 00:52	WG1825305
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/02/2022 00:52	WG1825305
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/02/2022 00:52	WG1825305
1,2-Dichloropropane	U		0.0508	0.200	1	03/02/2022 00:52	WG1825305
1,1-Dichloropropene	U		0.0280	0.100	1	03/02/2022 00:52	WG1825305
1,3-Dichloropropane	U		0.0700	0.200	1	03/02/2022 00:52	WG1825305
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/02/2022 00:52	WG1825305
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/02/2022 00:52	WG1825305
2,2-Dichloropropane	U		0.0317	0.100	1	03/02/2022 00:52	WG1825305
Di-isopropyl ether	U		0.0140	0.0400	1	03/02/2022 00:52	WG1825305
Ethylbenzene	0.0850	J	0.0212	0.100	1	03/02/2022 00:52	WG1825305
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/02/2022 00:52	WG1825305
Isopropylbenzene	0.984		0.0345	0.100	1	03/02/2022 00:52	WG1825305
p-Isopropyltoluene	U		0.0932	0.200	1	03/02/2022 00:52	WG1825305
2-Butanone (MEK)	U		0.500	1.00	1	03/02/2022 00:52	WG1825305
Methylene Chloride	U		0.265	1.00	1	03/02/2022 00:52	WG1825305
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/02/2022 00:52	WG1825305
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/02/2022 00:52	WG1825305
Naphthalene	28.7		0.124	0.500	1	03/02/2022 00:52	WG1825305
n-Propylbenzene	U		0.0472	0.200	1	03/02/2022 00:52	WG1825305
Styrene	U		0.109	0.500	1	03/02/2022 00:52	WG1825305
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/02/2022 00:52	WG1825305
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/02/2022 00:52	WG1825305
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/02/2022 00:52	WG1825305
Tetrachloroethene	U		0.0280	0.100	1	03/02/2022 00:52	WG1825305
Toluene	0.0840	J	0.0500	0.200	1	03/02/2022 00:52	WG1825305
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/02/2022 00:52	WG1825305
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/02/2022 00:52	WG1825305
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/02/2022 00:52	WG1825305

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/02/2022 00:52	WG1825305
Trichloroethene	U		0.0160	0.0400	1	03/02/2022 00:52	WG1825305
Trichlorofluoromethane	U		0.0200	0.100	1	03/02/2022 00:52	WG1825305
1,2,3-Trichloropropane	U		0.204	0.500	1	03/02/2022 00:52	WG1825305
1,2,4-Trimethylbenzene	0.0790	<u>B</u> <u>J</u>	0.0464	0.200	1	03/02/2022 00:52	WG1825305
1,2,3-Trimethylbenzene	0.0670	<u>J</u>	0.0460	0.200	1	03/02/2022 00:52	WG1825305
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/02/2022 00:52	WG1825305
Vinyl chloride	U		0.0273	0.100	1	03/02/2022 00:52	WG1825305
Xylenes, Total	U		0.191	0.260	1	03/02/2022 00:52	WG1825305
Ethyl Ether	U		0.0170	0.100	1	03/02/2022 00:52	WG1825305
Tetrahydrofuran	U		0.0900	0.500	1	03/02/2022 00:52	WG1825305
Iodomethane	U		0.242	0.500	1	03/02/2022 00:52	WG1825305
Allyl chloride	U		0.580	1.00	1	03/02/2022 00:52	WG1825305
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/02/2022 00:52	WG1825305
(S) Toluene-d8	106			75.0-131		03/02/2022 00:52	WG1825305
(S) 4-Bromofluorobenzene	97.6			67.0-138		03/02/2022 00:52	WG1825305
(S) 1,2-Dichloroethane-d4	111			70.0-130		03/02/2022 00:52	WG1825305

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	03/02/2022 01:11	WG1825305
Acrylonitrile	U		0.0760	0.500	1	03/02/2022 01:11	WG1825305
Benzene	3.18		0.0160	0.0400	1	03/02/2022 01:11	WG1825305
Bromobenzene	U		0.0420	0.500	1	03/02/2022 01:11	WG1825305
Bromodichloromethane	U		0.0315	0.100	1	03/02/2022 01:11	WG1825305
Bromoform	U		0.239	1.00	1	03/02/2022 01:11	WG1825305
Bromomethane	U		0.148	0.500	1	03/02/2022 01:11	WG1825305
n-Butylbenzene	U		0.153	0.500	1	03/02/2022 01:11	WG1825305
sec-Butylbenzene	U		0.101	0.500	1	03/02/2022 01:11	WG1825305
tert-Butylbenzene	U		0.0620	0.200	1	03/02/2022 01:11	WG1825305
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/02/2022 01:11	WG1825305
Chlorobenzene	U		0.0229	0.100	1	03/02/2022 01:11	WG1825305
Chlorodibromomethane	U		0.0180	0.100	1	03/02/2022 01:11	WG1825305
Chloroethane	U		0.0432	0.200	1	03/02/2022 01:11	WG1825305
Chloroform	U		0.0166	0.100	1	03/02/2022 01:11	WG1825305
Chloromethane	U		0.0556	0.500	1	03/02/2022 01:11	WG1825305
2-Chlorotoluene	U		0.0368	0.100	1	03/02/2022 01:11	WG1825305
4-Chlorotoluene	U		0.0452	0.200	1	03/02/2022 01:11	WG1825305
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/02/2022 01:11	WG1825305
1,2-Dibromoethane	U		0.0210	0.100	1	03/02/2022 01:11	WG1825305
Dibromomethane	U		0.0400	0.200	1	03/02/2022 01:11	WG1825305
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/02/2022 01:11	WG1825305
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/02/2022 01:11	WG1825305
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/02/2022 01:11	WG1825305
Dichlorodifluoromethane	U		0.0327	0.100	1	03/02/2022 01:11	WG1825305
1,1-Dichloroethane	0.0320	J	0.0230	0.100	1	03/02/2022 01:11	WG1825305
1,2-Dichloroethane	U		0.0190	0.100	1	03/02/2022 01:11	WG1825305
1,1-Dichloroethene	U		0.0200	0.100	1	03/02/2022 01:11	WG1825305
cis-1,2-Dichloroethene	0.307		0.0276	0.100	1	03/02/2022 01:11	WG1825305
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/02/2022 01:11	WG1825305
1,2-Dichloropropane	U		0.0508	0.200	1	03/02/2022 01:11	WG1825305
1,1-Dichloropropene	U		0.0280	0.100	1	03/02/2022 01:11	WG1825305
1,3-Dichloropropane	U		0.0700	0.200	1	03/02/2022 01:11	WG1825305
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/02/2022 01:11	WG1825305
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/02/2022 01:11	WG1825305
2,2-Dichloropropane	U		0.0317	0.100	1	03/02/2022 01:11	WG1825305
Di-isopropyl ether	U		0.0140	0.0400	1	03/02/2022 01:11	WG1825305
Ethylbenzene	U		0.0212	0.100	1	03/02/2022 01:11	WG1825305
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/02/2022 01:11	WG1825305
Isopropylbenzene	U		0.0345	0.100	1	03/02/2022 01:11	WG1825305
p-Isopropyltoluene	U		0.0932	0.200	1	03/02/2022 01:11	WG1825305
2-Butanone (MEK)	U		0.500	1.00	1	03/02/2022 01:11	WG1825305
Methylene Chloride	U		0.265	1.00	1	03/02/2022 01:11	WG1825305
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/02/2022 01:11	WG1825305
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/02/2022 01:11	WG1825305
Naphthalene	0.934		0.124	0.500	1	03/02/2022 01:11	WG1825305
n-Propylbenzene	U		0.0472	0.200	1	03/02/2022 01:11	WG1825305
Styrene	U		0.109	0.500	1	03/02/2022 01:11	WG1825305
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/02/2022 01:11	WG1825305
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/02/2022 01:11	WG1825305
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/02/2022 01:11	WG1825305
Tetrachloroethene	U		0.0280	0.100	1	03/02/2022 01:11	WG1825305
Toluene	U		0.0500	0.200	1	03/02/2022 01:11	WG1825305
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/02/2022 01:11	WG1825305
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/02/2022 01:11	WG1825305
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/02/2022 01:11	WG1825305

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/02/2022 01:11	WG1825305
Trichloroethene	U		0.0160	0.0400	1	03/02/2022 01:11	WG1825305
Trichlorofluoromethane	U		0.0200	0.100	1	03/02/2022 01:11	WG1825305
1,2,3-Trichloropropane	U		0.204	0.500	1	03/02/2022 01:11	WG1825305
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/02/2022 01:11	WG1825305
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/02/2022 01:11	WG1825305
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/02/2022 01:11	WG1825305
Vinyl chloride	13.8		0.0273	0.100	1	03/02/2022 01:11	WG1825305
Xylenes, Total	U		0.191	0.260	1	03/02/2022 01:11	WG1825305
Ethyl Ether	U		0.0170	0.100	1	03/02/2022 01:11	WG1825305
Tetrahydrofuran	U		0.0900	0.500	1	03/02/2022 01:11	WG1825305
Iodomethane	U		0.242	0.500	1	03/02/2022 01:11	WG1825305
Allyl chloride	U		0.580	1.00	1	03/02/2022 01:11	WG1825305
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/02/2022 01:11	WG1825305
(S) Toluene-d8	92.3			75.0-131		03/02/2022 01:11	WG1825305
(S) 4-Bromofluorobenzene	92.8			67.0-138		03/02/2022 01:11	WG1825305
(S) 1,2-Dichloroethane-d4	110			70.0-130		03/02/2022 01:11	WG1825305

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	03/02/2022 01:30	WG1825305
Acrylonitrile	U		0.0760	0.500	1	03/02/2022 01:30	WG1825305
Benzene	9.75		0.0160	0.0400	1	03/02/2022 01:30	WG1825305
Bromobenzene	U		0.0420	0.500	1	03/02/2022 01:30	WG1825305
Bromodichloromethane	U		0.0315	0.100	1	03/02/2022 01:30	WG1825305
Bromoform	U		0.239	1.00	1	03/02/2022 01:30	WG1825305
Bromomethane	U		0.148	0.500	1	03/02/2022 01:30	WG1825305
n-Butylbenzene	U		0.153	0.500	1	03/02/2022 01:30	WG1825305
sec-Butylbenzene	U		0.101	0.500	1	03/02/2022 01:30	WG1825305
tert-Butylbenzene	U		0.0620	0.200	1	03/02/2022 01:30	WG1825305
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/02/2022 01:30	WG1825305
Chlorobenzene	U		0.0229	0.100	1	03/02/2022 01:30	WG1825305
Chlorodibromomethane	U		0.0180	0.100	1	03/02/2022 01:30	WG1825305
Chloroethane	U		0.0432	0.200	1	03/02/2022 01:30	WG1825305
Chloroform	U		0.0166	0.100	1	03/02/2022 01:30	WG1825305
Chloromethane	U		0.0556	0.500	1	03/02/2022 01:30	WG1825305
2-Chlorotoluene	U		0.0368	0.100	1	03/02/2022 01:30	WG1825305
4-Chlorotoluene	U		0.0452	0.200	1	03/02/2022 01:30	WG1825305
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/02/2022 01:30	WG1825305
1,2-Dibromoethane	U		0.0210	0.100	1	03/02/2022 01:30	WG1825305
Dibromomethane	U		0.0400	0.200	1	03/02/2022 01:30	WG1825305
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/02/2022 01:30	WG1825305
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/02/2022 01:30	WG1825305
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/02/2022 01:30	WG1825305
Dichlorodifluoromethane	U		0.0327	0.100	1	03/02/2022 01:30	WG1825305
1,1-Dichloroethane	0.0390	J	0.0230	0.100	1	03/02/2022 01:30	WG1825305
1,2-Dichloroethane	U		0.0190	0.100	1	03/02/2022 01:30	WG1825305
1,1-Dichloroethene	U		0.0200	0.100	1	03/02/2022 01:30	WG1825305
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/02/2022 01:30	WG1825305
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/02/2022 01:30	WG1825305
1,2-Dichloropropane	U		0.0508	0.200	1	03/02/2022 01:30	WG1825305
1,1-Dichloropropene	U		0.0280	0.100	1	03/02/2022 01:30	WG1825305
1,3-Dichloropropane	U		0.0700	0.200	1	03/02/2022 01:30	WG1825305
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/02/2022 01:30	WG1825305
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/02/2022 01:30	WG1825305
2,2-Dichloropropane	U		0.0317	0.100	1	03/02/2022 01:30	WG1825305
Di-isopropyl ether	0.0870		0.0140	0.0400	1	03/02/2022 01:30	WG1825305
Ethylbenzene	U		0.0212	0.100	1	03/02/2022 01:30	WG1825305
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/02/2022 01:30	WG1825305
Isopropylbenzene	U		0.0345	0.100	1	03/02/2022 01:30	WG1825305
p-Isopropyltoluene	U		0.0932	0.200	1	03/02/2022 01:30	WG1825305
2-Butanone (MEK)	U		0.500	1.00	1	03/02/2022 01:30	WG1825305
Methylene Chloride	U		0.265	1.00	1	03/02/2022 01:30	WG1825305
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/02/2022 01:30	WG1825305
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/02/2022 01:30	WG1825305
Naphthalene	0.233	J	0.124	0.500	1	03/02/2022 01:30	WG1825305
n-Propylbenzene	U		0.0472	0.200	1	03/02/2022 01:30	WG1825305
Styrene	U		0.109	0.500	1	03/02/2022 01:30	WG1825305
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/02/2022 01:30	WG1825305
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/02/2022 01:30	WG1825305
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/02/2022 01:30	WG1825305
Tetrachloroethene	U		0.0280	0.100	1	03/02/2022 01:30	WG1825305
Toluene	U		0.0500	0.200	1	03/02/2022 01:30	WG1825305
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/02/2022 01:30	WG1825305
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/02/2022 01:30	WG1825305
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/02/2022 01:30	WG1825305

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/02/2022 01:30	WG1825305
Trichloroethene	U		0.0160	0.0400	1	03/02/2022 01:30	WG1825305
Trichlorofluoromethane	U		0.0200	0.100	1	03/02/2022 01:30	WG1825305
1,2,3-Trichloropropane	U		0.204	0.500	1	03/02/2022 01:30	WG1825305
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/02/2022 01:30	WG1825305
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/02/2022 01:30	WG1825305
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/02/2022 01:30	WG1825305
Vinyl chloride	10.6		0.0273	0.100	1	03/02/2022 01:30	WG1825305
Xylenes, Total	U		0.191	0.260	1	03/02/2022 01:30	WG1825305
Ethyl Ether	0.0980	J	0.0170	0.100	1	03/02/2022 01:30	WG1825305
Tetrahydrofuran	U		0.0900	0.500	1	03/02/2022 01:30	WG1825305
Iodomethane	U		0.242	0.500	1	03/02/2022 01:30	WG1825305
Allyl chloride	U		0.580	1.00	1	03/02/2022 01:30	WG1825305
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/02/2022 01:30	WG1825305
(S) Toluene-d8	99.2			75.0-131		03/02/2022 01:30	WG1825305
(S) 4-Bromofluorobenzene	96.0			67.0-138		03/02/2022 01:30	WG1825305
(S) 1,2-Dichloroethane-d4	111			70.0-130		03/02/2022 01:30	WG1825305

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

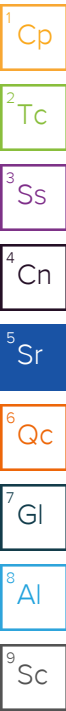
7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	03/02/2022 01:49	WG1825305
Acrylonitrile	U		0.0760	0.500	1	03/02/2022 01:49	WG1825305
Benzene	0.222		0.0160	0.0400	1	03/02/2022 01:49	WG1825305
Bromobenzene	U		0.0420	0.500	1	03/02/2022 01:49	WG1825305
Bromodichloromethane	U		0.0315	0.100	1	03/02/2022 01:49	WG1825305
Bromoform	U		0.239	1.00	1	03/02/2022 01:49	WG1825305
Bromomethane	U		0.148	0.500	1	03/02/2022 01:49	WG1825305
n-Butylbenzene	U		0.153	0.500	1	03/02/2022 01:49	WG1825305
sec-Butylbenzene	U		0.101	0.500	1	03/02/2022 01:49	WG1825305
tert-Butylbenzene	U		0.0620	0.200	1	03/02/2022 01:49	WG1825305
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/02/2022 01:49	WG1825305
Chlorobenzene	U		0.0229	0.100	1	03/02/2022 01:49	WG1825305
Chlorodibromomethane	U		0.0180	0.100	1	03/02/2022 01:49	WG1825305
Chloroethane	U		0.0432	0.200	1	03/02/2022 01:49	WG1825305
Chloroform	U		0.0166	0.100	1	03/02/2022 01:49	WG1825305
Chloromethane	U		0.0556	0.500	1	03/02/2022 01:49	WG1825305
2-Chlorotoluene	U		0.0368	0.100	1	03/02/2022 01:49	WG1825305
4-Chlorotoluene	U		0.0452	0.200	1	03/02/2022 01:49	WG1825305
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/02/2022 01:49	WG1825305
1,2-Dibromoethane	U		0.0210	0.100	1	03/02/2022 01:49	WG1825305
Dibromomethane	U		0.0400	0.200	1	03/02/2022 01:49	WG1825305
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/02/2022 01:49	WG1825305
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/02/2022 01:49	WG1825305
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/02/2022 01:49	WG1825305
Dichlorodifluoromethane	U		0.0327	0.100	1	03/02/2022 01:49	WG1825305
1,1-Dichloroethane	U		0.0230	0.100	1	03/02/2022 01:49	WG1825305
1,2-Dichloroethane	U		0.0190	0.100	1	03/02/2022 01:49	WG1825305
1,1-Dichloroethene	U		0.0200	0.100	1	03/02/2022 01:49	WG1825305
cis-1,2-Dichloroethene	10.1		0.0276	0.100	1	03/02/2022 01:49	WG1825305
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/02/2022 01:49	WG1825305
1,2-Dichloropropane	U		0.0508	0.200	1	03/02/2022 01:49	WG1825305
1,1-Dichloropropene	U		0.0280	0.100	1	03/02/2022 01:49	WG1825305
1,3-Dichloropropane	U		0.0700	0.200	1	03/02/2022 01:49	WG1825305
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/02/2022 01:49	WG1825305
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/02/2022 01:49	WG1825305
2,2-Dichloropropane	U		0.0317	0.100	1	03/02/2022 01:49	WG1825305
Di-isopropyl ether	0.0760		0.0140	0.0400	1	03/02/2022 01:49	WG1825305
Ethylbenzene	U		0.0212	0.100	1	03/02/2022 01:49	WG1825305
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/02/2022 01:49	WG1825305
Isopropylbenzene	U		0.0345	0.100	1	03/02/2022 01:49	WG1825305
p-Isopropyltoluene	U		0.0932	0.200	1	03/02/2022 01:49	WG1825305
2-Butanone (MEK)	U		0.500	1.00	1	03/02/2022 01:49	WG1825305
Methylene Chloride	U		0.265	1.00	1	03/02/2022 01:49	WG1825305
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/02/2022 01:49	WG1825305
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/02/2022 01:49	WG1825305
Naphthalene	U		0.124	0.500	1	03/02/2022 01:49	WG1825305
n-Propylbenzene	U		0.0472	0.200	1	03/02/2022 01:49	WG1825305
Styrene	U		0.109	0.500	1	03/02/2022 01:49	WG1825305
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/02/2022 01:49	WG1825305
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/02/2022 01:49	WG1825305
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/02/2022 01:49	WG1825305
Tetrachloroethene	U		0.0280	0.100	1	03/02/2022 01:49	WG1825305
Toluene	U		0.0500	0.200	1	03/02/2022 01:49	WG1825305
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/02/2022 01:49	WG1825305
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/02/2022 01:49	WG1825305
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/02/2022 01:49	WG1825305



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/02/2022 01:49	WG1825305
Trichloroethene	U		0.0160	0.0400	1	03/02/2022 01:49	WG1825305
Trichlorofluoromethane	U		0.0200	0.100	1	03/02/2022 01:49	WG1825305
1,2,3-Trichloropropane	U		0.204	0.500	1	03/02/2022 01:49	WG1825305
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/02/2022 01:49	WG1825305
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/02/2022 01:49	WG1825305
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/02/2022 01:49	WG1825305
Vinyl chloride	21.8		0.0273	0.100	1	03/02/2022 01:49	WG1825305
Xylenes, Total	U		0.191	0.260	1	03/02/2022 01:49	WG1825305
Ethyl Ether	U		0.0170	0.100	1	03/02/2022 01:49	WG1825305
Tetrahydrofuran	U		0.0900	0.500	1	03/02/2022 01:49	WG1825305
Iodomethane	U		0.242	0.500	1	03/02/2022 01:49	WG1825305
Allyl chloride	U		0.580	1.00	1	03/02/2022 01:49	WG1825305
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/02/2022 01:49	WG1825305
(S) Toluene-d8	94.2			75.0-131		03/02/2022 01:49	WG1825305
(S) 4-Bromofluorobenzene	93.3			67.0-138		03/02/2022 01:49	WG1825305
(S) 1,2-Dichloroethane-d4	112			70.0-130		03/02/2022 01:49	WG1825305

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3764734-1 02/27/22 19:06

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Sulfate	U		594	5000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1465723-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1465723-02 02/27/22 20:16 • (DUP) R3764734-3 02/27/22 20:31

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	8420	8350	1	0.843		20

L1465732-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1465732-07 02/28/22 00:30 • (DUP) R3764734-8 02/28/22 00:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	251000	250000	5	0.386		20

Laboratory Control Sample (LCS)

(LCS) R3764734-2 02/27/22 19:21

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Sulfate	40000	40200	100	90.0-110	

L1465723-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1465723-03 02/27/22 20:46 • (MS) R3764734-4 02/27/22 21:01 • (MSD) R3764734-5 02/27/22 21:16

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Sulfate	50000	10900	55500	55400	89.2	89.0	1	80.0-120			0.126	20

Method Blank (MB)

(MB) R3766310-2 03/03/22 11:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	U		102	1000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1465723-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1465723-03 03/03/22 17:43 • (DUP) R3766310-5 03/03/22 18:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	2380	2190	1	7.97		20

L1465880-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1465880-14 03/03/22 21:28 • (DUP) R3766310-8 03/03/22 21:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	845	807	1	4.66	↓	20

Laboratory Control Sample (LCS)

(LCS) R3766310-1 03/03/22 11:28

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	75100	100	85.0-115	

L1465723-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1465723-01 03/03/22 16:00 • (MS) R3766310-3 03/03/22 16:21 • (MSD) R3766310-4 03/03/22 16:45

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	1720	52600	52700	102	102	1	80.0-120			0.266	20

L1465880-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1465880-09 03/03/22 19:27 • (MS) R3766310-6 03/03/22 19:47 • (MSD) R3766310-7 03/03/22 20:10

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	1430	52100	52600	101	102	1	80.0-120			0.956	20

Method Blank (MB)

(MB) R3766147-1 03/03/22 15:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		28.1	100
Manganese	U		0.704	5.00

Laboratory Control Sample (LCS)

(LCS) R3766147-2 03/03/22 15:22

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron	5000	4910	98.3	80.0-120	
Manganese	50.0	50.4	101	80.0-120	

L1465647-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1465647-13 03/03/22 15:25 • (MS) R3766147-4 03/03/22 15:32 • (MSD) R3766147-5 03/03/22 15:35

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	45.2	5060	5090	100	101	1	75.0-125			0.639	20
Manganese	50.0	2.51	51.8	51.6	98.5	98.2	1	75.0-125			0.328	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3765522-2 02/28/22 23:46

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	91.2	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	100			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3765522-1 02/28/22 22:50

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5730	104	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			109	78.0-120	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3766424-2 03/04/22 10:08

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1465727-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1465727-06 03/04/22 11:13 • (DUP) R3766424-3 03/04/22 11:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	U	U	1	0.000		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1465944-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1465944-05 03/04/22 12:18 • (DUP) R3766424-4 03/04/22 12:21

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	146	149	1	2.03		20
Ethane	1.88	1.76	1	6.59		20
Ethene	9.65	9.00	1	6.97		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3766424-1 03/04/22 10:05 • (LCSD) R3766424-5 03/04/22 12:34

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	64.2	63.4	94.7	93.5	85.0-115			1.25	20
Ethane	129	119	114	92.2	88.4	85.0-115			4.29	20
Ethene	127	120	115	94.5	90.6	85.0-115			4.26	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3765552-3 03/01/22 21:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00
Isopropylbenzene	U		0.0345	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3765552-3 03/01/22 21:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	0.107	U	0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Ethyl ether	U		0.0170	0.100
Tetrahydrofuran	U		0.0900	0.500
Iodomethane	U		0.242	0.500
Allyl Chloride	U		0.580	1.00
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
(S) Toluene-d8	96.6			75.0-131
(S) 4-Bromofluorobenzene	99.1			67.0-138
(S) 1,2-Dichloroethane-d4	107			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3765552-1 03/01/22 20:26 • (LCSD) R3765552-2 03/01/22 20:45

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	25.0	36.0	33.9	144	136	10.0-160			6.01	31
Acrylonitrile	25.0	21.5	21.9	86.0	87.6	45.0-153			1.84	22
Benzene	5.00	4.79	4.88	95.8	97.6	70.0-123			1.86	20
Bromobenzene	5.00	5.84	5.84	117	117	73.0-121			0.000	20
Bromodichloromethane	5.00	5.59	5.44	112	109	73.0-121			2.72	20
Bromoform	5.00	5.92	5.31	118	106	64.0-132			10.9	20
Bromomethane	5.00	5.81	5.58	116	112	56.0-147			4.04	20
n-Butylbenzene	5.00	5.15	4.78	103	95.6	68.0-135			7.45	20
sec-Butylbenzene	5.00	5.31	5.17	106	103	74.0-130			2.67	20
tert-Butylbenzene	5.00	5.45	5.62	109	112	75.0-127			3.07	20
Carbon tetrachloride	5.00	6.48	6.17	130	123	66.0-128	J4		4.90	20
Chlorobenzene	5.00	5.37	5.01	107	100	76.0-128			6.94	20
Chlorodibromomethane	5.00	5.76	5.22	115	104	74.0-127			9.84	20
Chloroethane	5.00	5.54	5.46	111	109	61.0-134			1.45	20
Chloroform	5.00	5.44	5.32	109	106	72.0-123			2.23	20
Chloromethane	5.00	4.80	4.54	96.0	90.8	51.0-138			5.57	20
2-Chlorotoluene	5.00	5.37	5.59	107	112	75.0-124			4.01	20
4-Chlorotoluene	5.00	5.34	5.48	107	110	75.0-124			2.59	20
1,2-Dibromo-3-Chloropropane	5.00	4.34	4.71	86.8	94.2	59.0-130			8.18	20
1,2-Dibromoethane	5.00	5.21	5.12	104	102	74.0-128			1.74	20
Dibromomethane	5.00	4.97	5.07	99.4	101	75.0-122			1.99	20
1,2-Dichlorobenzene	5.00	5.31	5.16	106	103	76.0-124			2.87	20
1,3-Dichlorobenzene	5.00	5.68	5.55	114	111	76.0-125			2.32	20
1,4-Dichlorobenzene	5.00	5.38	5.23	108	105	77.0-121			2.83	20
Dichlorodifluoromethane	5.00	6.11	5.89	122	118	43.0-156			3.67	20
1,1-Dichloroethane	5.00	5.32	5.24	106	105	70.0-127			1.52	20
1,2-Dichloroethane	5.00	5.72	5.54	114	111	65.0-131			3.20	20
1,1-Dichloroethene	5.00	5.65	5.18	113	104	65.0-131			8.68	20
cis-1,2-Dichloroethene	5.00	5.45	5.44	109	109	73.0-125			0.184	20
trans-1,2-Dichloroethene	5.00	5.57	5.40	111	108	71.0-125			3.10	20
1,2-Dichloropropane	5.00	5.17	4.88	103	97.6	74.0-125			5.77	20
1,1-Dichloropropene	5.00	5.33	5.31	107	106	73.0-125			0.376	20
1,3-Dichloropropane	5.00	5.09	5.04	102	101	80.0-125			0.987	20
cis-1,3-Dichloropropene	5.00	5.79	5.25	116	105	76.0-127			9.78	20
trans-1,3-Dichloropropene	5.00	5.58	5.38	112	108	73.0-127			3.65	20
2,2-Dichloropropane	5.00	5.27	5.23	105	105	59.0-135			0.762	20
Di-isopropyl ether	5.00	4.93	4.86	98.6	97.2	60.0-136			1.43	20
Ethylbenzene	5.00	5.37	5.31	107	106	74.0-126			1.12	20
Hexachloro-1,3-butadiene	5.00	5.72	5.45	114	109	57.0-150			4.83	20
Isopropylbenzene	5.00	5.83	4.91	117	98.2	72.0-127			17.1	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3765552-1 03/01/22 20:26 • (LCSD) R3765552-2 03/01/22 20:45

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
p-Isopropyltoluene	5.00	5.70	5.58	114	112	72.0-133			2.13	20
2-Butanone (MEK)	25.0	23.6	22.7	94.4	90.8	30.0-160			3.89	24
Methylene Chloride	5.00	4.96	4.89	99.2	97.8	68.0-123			1.42	20
4-Methyl-2-pentanone (MIBK)	25.0	26.0	24.8	104	99.2	56.0-143			4.72	20
Methyl tert-butyl ether	5.00	5.28	5.31	106	106	66.0-132			0.567	20
Naphthalene	5.00	4.18	4.16	83.6	83.2	59.0-130			0.480	20
n-Propylbenzene	5.00	5.30	5.19	106	104	74.0-126			2.10	20
Styrene	5.00	5.46	4.85	109	97.0	72.0-127			11.8	20
1,1,1,2-Tetrachloroethane	5.00	5.81	5.08	116	102	74.0-129			13.4	20
1,1,2,2-Tetrachloroethane	5.00	4.50	4.31	90.0	86.2	68.0-128			4.31	20
1,1,2-Trichlorotrifluoroethane	5.00	5.75	5.48	115	110	61.0-139			4.81	20
Tetrachloroethene	5.00	5.77	5.23	115	105	70.0-136			9.82	20
Toluene	5.00	4.87	4.47	97.4	89.4	75.0-121			8.57	20
1,2,3-Trichlorobenzene	5.00	4.42	4.44	88.4	88.8	59.0-139			0.451	20
1,2,4-Trichlorobenzene	5.00	5.17	4.67	103	93.4	62.0-137			10.2	20
1,1,1-Trichloroethane	5.00	5.98	5.57	120	111	69.0-126			7.10	20
1,1,2-Trichloroethane	5.00	5.21	4.66	104	93.2	78.0-123			11.1	20
Trichloroethene	5.00	5.83	5.69	117	114	76.0-126			2.43	20
Trichlorofluoromethane	5.00	6.44	5.96	129	119	61.0-142			7.74	20
1,2,3-Trichloropropane	5.00	5.37	6.03	107	121	67.0-129			11.6	20
1,2,4-Trimethylbenzene	5.00	5.60	5.60	112	112	70.0-126			0.000	20
1,2,3-Trimethylbenzene	5.00	5.24	5.24	105	105	74.0-124			0.000	20
1,3,5-Trimethylbenzene	5.00	5.57	5.41	111	108	73.0-127			2.91	20
Vinyl chloride	5.00	5.20	4.92	104	98.4	63.0-134			5.53	20
Xylenes, Total	15.0	16.4	14.5	109	96.7	72.0-127			12.3	20
Ethyl ether	5.00	5.56	5.06	111	101	64.0-137			9.42	20
Tetrahydrofuran	5.00	5.92	6.28	118	126	37.0-146			5.90	24
Iodomethane	25.0	28.7	28.8	115	115	74.0-134			0.348	20
Allyl chloride	25.0	28.5	28.2	114	113	70.0-131			1.06	20
trans-1,4-Dichloro-2-butene	5.00	5.30	5.54	106	111	45.0-143			4.43	20
<i>(S) Toluene-d8</i>				103	93.4	75.0-131				
<i>(S) 4-Bromofluorobenzene</i>				104	92.0	67.0-138				
<i>(S) 1,2-Dichloroethane-d4</i>				107	110	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3765747-3 03/02/22 22:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
(S) Toluene-d8	118			75.0-131
(S) 4-Bromofluorobenzene	107			67.0-138
(S) 1,2-Dichloroethane-d4	87.1			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3765747-1 03/02/22 21:13 • (LCSD) R3765747-2 03/02/22 21:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	5.00	5.04	4.24	101	84.8	73.0-125			17.2	20
(S) Toluene-d8				97.5	99.2	75.0-131				
(S) 4-Bromofluorobenzene				102	102	67.0-138				
(S) 1,2-Dichloroethane-d4				85.7	87.8	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

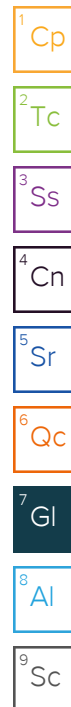
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address:
PES Environmental, Inc.- WA
 2101 Fourth Ave., Suite 1310
 Seattle, WA 98121

Billing Information:
 Attn: Accounts Payable
 2101 4th Avenue, Suite 1310
 Seattle, WA 98121

Pres
 Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Report to:
Brian O'Neal/Bill Haldeman

Email To:
 Shannon.McKernan@nv5.com;brian.oneal@nv5

Project Description:
American Linen

City/State
 Collected: **SEATTLE WA**

Please Circle:
 PT MT CT ET

Phone: **206-529-3980**

Client Project #
1413.001.02.501

Lab Project #
PESENVSWA-ALP

Collected by (print):
RMM Laughlin

Site/Facility ID #

P.O. #
443018-1413001.05.601

Collected by (signature):
RMM
 Immediately Packed on Ice N Y

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #
 Date Results Needed

No.
 of
 Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	ALK 125mIHDPE-NoPres	FEG, MNG 250mIHDPE-HNO3	FEG, MNG 250mIHDPE-HNO3	NWTPHGX 40mIAmb HCl	RSKI 75LL 40mIAmb-HCl	SULFATE 125mIHDPE-NoPres	TOC 250mIHDPE-HCl	V8260ULLC 40mIAmb-HCl	Remarks	Sample # (lab only)
MW-966-022422	Grab	GW	-	2/24/22	0800	11		X		X	X	X	X	X		- 01
R-MWS-022422		GW	-		1010	11		X		X	X	X	X	X		- 02
MW105-022422		GW	-	2/24/22	1420	8		X			X	X	X	X		- 03
FMW-131-022522		GW	-	2/25/22	920	3								X		- 04
GEI-2-022522		GW	-		1032	3								X		- 05
MW128-022522		GW	-		1225	3								X		- 06
MW-329-022522	Grab	GW	-	2/25/22	1305	3								X		- 07
		GW														
		GW														
		GW														

Pace
 PEOPLE ADVANCING SCIENCE
 MT JULIET, TN
 12065 Lebanon Rd Mount Juliet, TN 37122
 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>

SDG # **L1465723**
L-144
 Acctnum: **PESENVSWA**
 Template: **T203400**
 Prelogin: **P903823**
 PM: **546 - Jared Starkey**
 PB: **CP 2-8-22**
 Shipped Via:

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: **#2 (RN) 1 of 2 coolers**
 pH _____ Temp _____
 Flow _____ Other _____
 Samples returned via: UPS FedEx Courier
 Tracking # **5528 5947 1498**

Sample Receipt Checklist
 COC Seal Present/Intact: Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
If Applicable
 VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature)
[Signature]
 Date: **2/25/22**
 Time: **1345**

Received by: (Signature)
[Signature]
 Date: **2/25/22**
 Time: **1600**

Received for lab by: (Signature)
[Signature]
 Date: **2/26/22**
 Time: **0930**

Trip Blank Received: Yes No
 HCL / MeOH
 TBR
 Bottles Received: **42**
 Temp: **1.4 to 1.4**

If preservation required by Login: Date/Time
 Hold:
 Condition: **NCF / OK**

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

PES Environmental, Inc.- WA

Sample Delivery Group: L1465944
Samples Received: 02/26/2022
Project Number: 1413.001.02.501.05
Description: American Linen

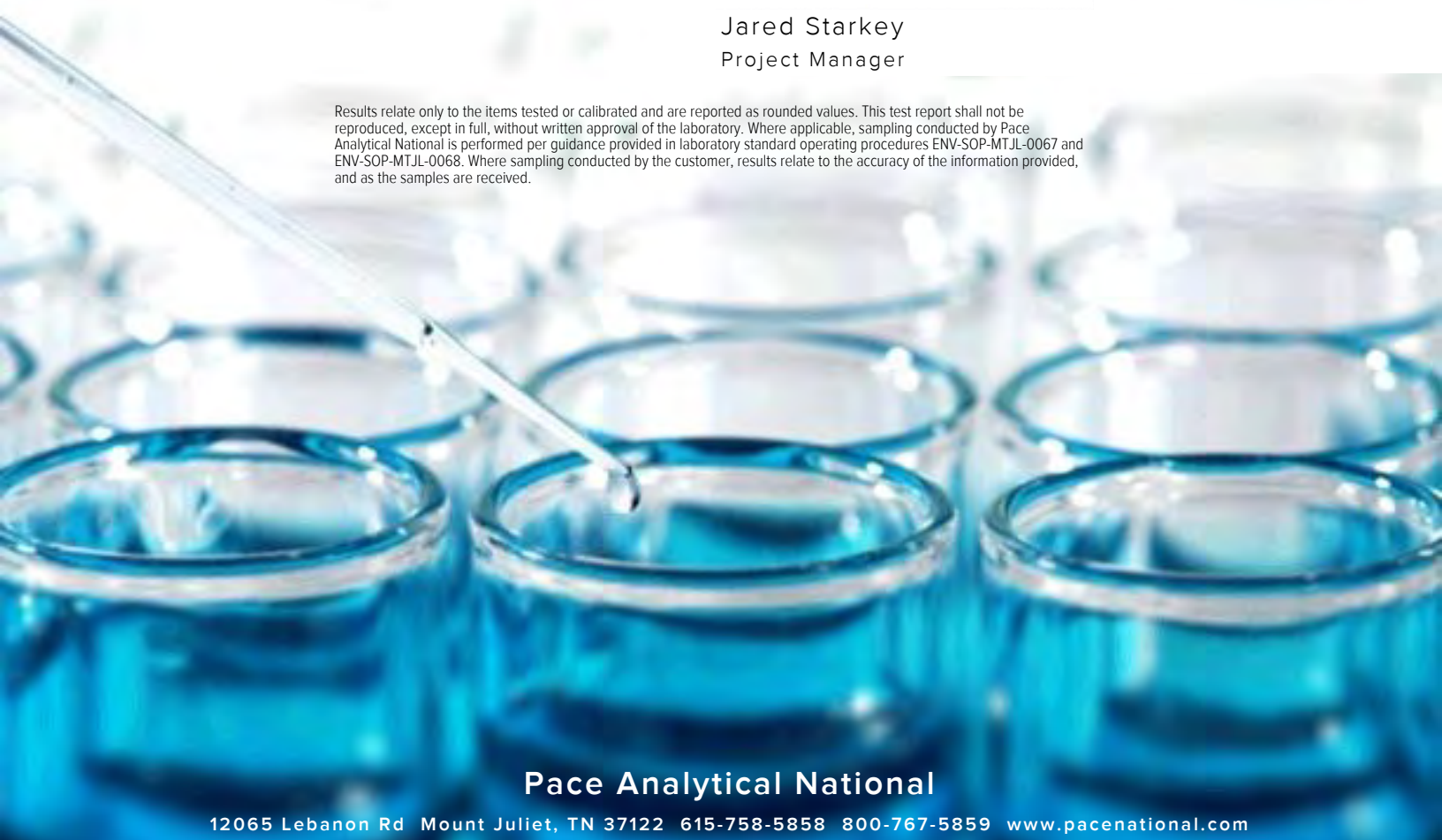
Report To: Brian O'Neal/Bill Haldeman
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:



Jared Starkey
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

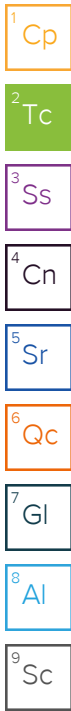


Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
MW-138-022422 L1465944-01	6
MW112-022422 L1465944-02	8
BB-8-022422 L1465944-03	10
MW110-022522 L1465944-04	12
MW-153-022522 L1465944-05	14
MW-148-022522 L1465944-06	16
TB-022522 L1465944-07	18
Qc: Quality Control Summary	20
Wet Chemistry by Method 9056A	20
Wet Chemistry by Method 9060A	21
Metals (ICPMS) by Method 6020B	23
Volatile Organic Compounds (GC) by Method RSK175	24
Volatile Organic Compounds (GC/MS) by Method 8260D	27
Gl: Glossary of Terms	31
Al: Accreditations & Locations	32
Sc: Sample Chain of Custody	33



SAMPLE SUMMARY

MW-138-022422 L1465944-01 GW

Collected by HRC Collected date/time 02/24/22 10:00 Received date/time 02/26/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1825481	10	03/01/22 18:07	03/01/22 18:07	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1826609	1	03/03/22 23:24	03/03/22 23:24	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1825528	20	03/02/22 16:45	03/03/22 12:25	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1825932	1	03/04/22 11:48	03/04/22 11:48	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1825305	1	03/02/22 03:23	03/02/22 03:23	DWR	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

MW112-022422 L1465944-02 GW

Collected by HRC Collected date/time 02/24/22 12:10 Received date/time 02/26/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1825481	1	03/01/22 18:20	03/01/22 18:20	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1826609	1	03/03/22 23:42	03/03/22 23:42	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1825528	1	03/02/22 16:45	03/03/22 00:20	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1825932	1	03/04/22 11:51	03/04/22 11:51	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1825305	1	03/02/22 03:42	03/02/22 03:42	DWR	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

BB-8-022422 L1465944-03 GW

Collected by HRC Collected date/time 02/24/22 13:50 Received date/time 02/26/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1825481	1	03/01/22 18:33	03/01/22 18:33	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1826609	1	03/03/22 23:58	03/03/22 23:58	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1825528	1	03/02/22 16:45	03/03/22 00:23	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1825932	1	03/04/22 11:54	03/04/22 11:54	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1825305	1	03/02/22 04:01	03/02/22 04:01	DWR	Mt. Juliet, TN

9 Sc

MW110-022522 L1465944-04 GW

Collected by HRC Collected date/time 02/25/22 11:15 Received date/time 02/26/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1825481	5	03/01/22 19:40	03/01/22 19:40	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1826609	1	03/04/22 00:14	03/04/22 00:14	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1825528	20	03/02/22 16:45	03/03/22 12:29	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1825932	1	03/04/22 12:12	03/04/22 12:12	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1825305	25	03/02/22 04:58	03/02/22 04:58	DWR	Mt. Juliet, TN

MW-153-022522 L1465944-05 GW

Collected by HRC Collected date/time 02/25/22 13:10 Received date/time 02/26/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1825481	1	03/01/22 19:54	03/01/22 19:54	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1826609	1	03/04/22 00:27	03/04/22 00:27	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1825528	5	03/02/22 16:45	03/03/22 12:32	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1825932	1	03/04/22 12:18	03/04/22 12:18	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1825305	1	03/02/22 04:20	03/02/22 04:20	DWR	Mt. Juliet, TN

SAMPLE SUMMARY

MW-148-022522 L1465944-06 GW

Collected by: HRC
 Collected date/time: 02/25/22 14:55
 Received date/time: 02/26/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1825481	5	03/01/22 20:07	03/01/22 20:07	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1826611	1	03/03/22 17:24	03/03/22 17:24	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1825528	5	03/02/22 16:45	03/03/22 12:35	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1825939	1	03/05/22 09:32	03/05/22 09:32	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1825305	1	03/02/22 04:39	03/02/22 04:39	DWR	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

TB-022522 L1465944-07 GW

Collected by: HRC
 Collected date/time: 02/25/22 15:30
 Received date/time: 02/26/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1825305	1	03/01/22 23:17	03/01/22 23:17	DWR	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jared Starkey
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	55100		5940	50000	10	03/01/2022 18:07	WG1825481

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	598	J	102	1000	1	03/03/2022 23:24	WG1826609

Metals (ICPMS) by Method 6020B

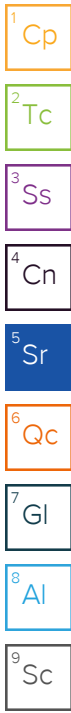
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	26600		562	2000	20	03/03/2022 12:25	WG1825528
Manganese	857		14.1	100	20	03/03/2022 12:25	WG1825528

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	27.3		0.287	0.678	1	03/04/2022 11:48	WG1825932
Ethane	U		0.296	1.29	1	03/04/2022 11:48	WG1825932
Ethene	U		0.422	1.27	1	03/04/2022 11:48	WG1825932

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.38	C5	0.548	1.00	1	03/02/2022 03:23	WG1825305
Acrylonitrile	U		0.0760	0.500	1	03/02/2022 03:23	WG1825305
Benzene	U		0.0160	0.0400	1	03/02/2022 03:23	WG1825305
Bromobenzene	U		0.0420	0.500	1	03/02/2022 03:23	WG1825305
Bromodichloromethane	U		0.0315	0.100	1	03/02/2022 03:23	WG1825305
Bromoform	U		0.239	1.00	1	03/02/2022 03:23	WG1825305
Bromomethane	U		0.148	0.500	1	03/02/2022 03:23	WG1825305
n-Butylbenzene	U		0.153	0.500	1	03/02/2022 03:23	WG1825305
sec-Butylbenzene	U		0.101	0.500	1	03/02/2022 03:23	WG1825305
tert-Butylbenzene	U		0.0620	0.200	1	03/02/2022 03:23	WG1825305
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/02/2022 03:23	WG1825305
Chlorobenzene	U		0.0229	0.100	1	03/02/2022 03:23	WG1825305
Chlorodibromomethane	U		0.0180	0.100	1	03/02/2022 03:23	WG1825305
Chloroethane	U		0.0432	0.200	1	03/02/2022 03:23	WG1825305
Chloroform	U		0.0166	0.100	1	03/02/2022 03:23	WG1825305
Chloromethane	U		0.0556	0.500	1	03/02/2022 03:23	WG1825305
2-Chlorotoluene	U		0.0368	0.100	1	03/02/2022 03:23	WG1825305
4-Chlorotoluene	U		0.0452	0.200	1	03/02/2022 03:23	WG1825305
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/02/2022 03:23	WG1825305
1,2-Dibromoethane	U		0.0210	0.100	1	03/02/2022 03:23	WG1825305
Dibromomethane	U		0.0400	0.200	1	03/02/2022 03:23	WG1825305
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/02/2022 03:23	WG1825305
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/02/2022 03:23	WG1825305
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/02/2022 03:23	WG1825305
Dichlorodifluoromethane	U		0.0327	0.100	1	03/02/2022 03:23	WG1825305
1,1-Dichloroethane	U		0.0230	0.100	1	03/02/2022 03:23	WG1825305
1,2-Dichloroethane	U		0.0190	0.100	1	03/02/2022 03:23	WG1825305
1,1-Dichloroethene	U		0.0200	0.100	1	03/02/2022 03:23	WG1825305
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/02/2022 03:23	WG1825305
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/02/2022 03:23	WG1825305
1,2-Dichloropropane	U		0.0508	0.200	1	03/02/2022 03:23	WG1825305



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/02/2022 03:23	WG1825305
1,3-Dichloropropane	U		0.0700	0.200	1	03/02/2022 03:23	WG1825305
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/02/2022 03:23	WG1825305
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/02/2022 03:23	WG1825305
2,2-Dichloropropane	U		0.0317	0.100	1	03/02/2022 03:23	WG1825305
Di-isopropyl ether	U		0.0140	0.0400	1	03/02/2022 03:23	WG1825305
Ethylbenzene	U		0.0212	0.100	1	03/02/2022 03:23	WG1825305
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/02/2022 03:23	WG1825305
Isopropylbenzene	U		0.0345	0.100	1	03/02/2022 03:23	WG1825305
p-Isopropyltoluene	U		0.0932	0.200	1	03/02/2022 03:23	WG1825305
2-Butanone (MEK)	U		0.500	1.00	1	03/02/2022 03:23	WG1825305
Methylene Chloride	U		0.265	1.00	1	03/02/2022 03:23	WG1825305
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/02/2022 03:23	WG1825305
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/02/2022 03:23	WG1825305
Naphthalene	U		0.124	0.500	1	03/02/2022 03:23	WG1825305
n-Propylbenzene	U		0.0472	0.200	1	03/02/2022 03:23	WG1825305
Styrene	U		0.109	0.500	1	03/02/2022 03:23	WG1825305
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/02/2022 03:23	WG1825305
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/02/2022 03:23	WG1825305
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/02/2022 03:23	WG1825305
Tetrachloroethene	U		0.0280	0.100	1	03/02/2022 03:23	WG1825305
Toluene	U		0.0500	0.200	1	03/02/2022 03:23	WG1825305
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/02/2022 03:23	WG1825305
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/02/2022 03:23	WG1825305
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/02/2022 03:23	WG1825305
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/02/2022 03:23	WG1825305
Trichloroethene	U		0.0160	0.0400	1	03/02/2022 03:23	WG1825305
Trichlorofluoromethane	U		0.0200	0.100	1	03/02/2022 03:23	WG1825305
1,2,3-Trichloropropane	U		0.204	0.500	1	03/02/2022 03:23	WG1825305
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/02/2022 03:23	WG1825305
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/02/2022 03:23	WG1825305
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/02/2022 03:23	WG1825305
Vinyl chloride	U		0.0273	0.100	1	03/02/2022 03:23	WG1825305
Xylenes, Total	U		0.191	0.260	1	03/02/2022 03:23	WG1825305
Ethyl Ether	U		0.0170	0.100	1	03/02/2022 03:23	WG1825305
Tetrahydrofuran	U		0.0900	0.500	1	03/02/2022 03:23	WG1825305
Iodomethane	U		0.242	0.500	1	03/02/2022 03:23	WG1825305
Allyl chloride	U		0.580	1.00	1	03/02/2022 03:23	WG1825305
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/02/2022 03:23	WG1825305
(S) Toluene-d8	103			75.0-131		03/02/2022 03:23	WG1825305
(S) 4-Bromofluorobenzene	94.1			67.0-138		03/02/2022 03:23	WG1825305
(S) 1,2-Dichloroethane-d4	117			70.0-130		03/02/2022 03:23	WG1825305

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	21300		594	5000	1	03/01/2022 18:20	WG1825481

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2400		102	1000	1	03/03/2022 23:42	WG1826609

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1450		28.1	100	1	03/03/2022 00:20	WG1825528
Manganese	184		0.704	5.00	1	03/03/2022 00:20	WG1825528

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	79.5		0.287	0.678	1	03/04/2022 11:51	WG1825932
Ethane	3.28		0.296	1.29	1	03/04/2022 11:51	WG1825932
Ethene	U		0.422	1.27	1	03/04/2022 11:51	WG1825932

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.13	C5	0.548	1.00	1	03/02/2022 03:42	WG1825305
Acrylonitrile	U		0.0760	0.500	1	03/02/2022 03:42	WG1825305
Benzene	U		0.0160	0.0400	1	03/02/2022 03:42	WG1825305
Bromobenzene	U		0.0420	0.500	1	03/02/2022 03:42	WG1825305
Bromodichloromethane	U		0.0315	0.100	1	03/02/2022 03:42	WG1825305
Bromoform	U		0.239	1.00	1	03/02/2022 03:42	WG1825305
Bromomethane	U		0.148	0.500	1	03/02/2022 03:42	WG1825305
n-Butylbenzene	U		0.153	0.500	1	03/02/2022 03:42	WG1825305
sec-Butylbenzene	U		0.101	0.500	1	03/02/2022 03:42	WG1825305
tert-Butylbenzene	U		0.0620	0.200	1	03/02/2022 03:42	WG1825305
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/02/2022 03:42	WG1825305
Chlorobenzene	U		0.0229	0.100	1	03/02/2022 03:42	WG1825305
Chlorodibromomethane	U		0.0180	0.100	1	03/02/2022 03:42	WG1825305
Chloroethane	U		0.0432	0.200	1	03/02/2022 03:42	WG1825305
Chloroform	U		0.0166	0.100	1	03/02/2022 03:42	WG1825305
Chloromethane	U		0.0556	0.500	1	03/02/2022 03:42	WG1825305
2-Chlorotoluene	U		0.0368	0.100	1	03/02/2022 03:42	WG1825305
4-Chlorotoluene	U		0.0452	0.200	1	03/02/2022 03:42	WG1825305
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/02/2022 03:42	WG1825305
1,2-Dibromoethane	U		0.0210	0.100	1	03/02/2022 03:42	WG1825305
Dibromomethane	U		0.0400	0.200	1	03/02/2022 03:42	WG1825305
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/02/2022 03:42	WG1825305
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/02/2022 03:42	WG1825305
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/02/2022 03:42	WG1825305
Dichlorodifluoromethane	U		0.0327	0.100	1	03/02/2022 03:42	WG1825305
1,1-Dichloroethane	U		0.0230	0.100	1	03/02/2022 03:42	WG1825305
1,2-Dichloroethane	U		0.0190	0.100	1	03/02/2022 03:42	WG1825305
1,1-Dichloroethene	U		0.0200	0.100	1	03/02/2022 03:42	WG1825305
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/02/2022 03:42	WG1825305
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/02/2022 03:42	WG1825305
1,2-Dichloropropane	U		0.0508	0.200	1	03/02/2022 03:42	WG1825305

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/02/2022 03:42	WG1825305
1,3-Dichloropropane	U		0.0700	0.200	1	03/02/2022 03:42	WG1825305
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/02/2022 03:42	WG1825305
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/02/2022 03:42	WG1825305
2,2-Dichloropropane	U		0.0317	0.100	1	03/02/2022 03:42	WG1825305
Di-isopropyl ether	U		0.0140	0.0400	1	03/02/2022 03:42	WG1825305
Ethylbenzene	U		0.0212	0.100	1	03/02/2022 03:42	WG1825305
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/02/2022 03:42	WG1825305
Isopropylbenzene	U		0.0345	0.100	1	03/02/2022 03:42	WG1825305
p-Isopropyltoluene	U		0.0932	0.200	1	03/02/2022 03:42	WG1825305
2-Butanone (MEK)	U		0.500	1.00	1	03/02/2022 03:42	WG1825305
Methylene Chloride	U		0.265	1.00	1	03/02/2022 03:42	WG1825305
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/02/2022 03:42	WG1825305
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/02/2022 03:42	WG1825305
Naphthalene	U		0.124	0.500	1	03/02/2022 03:42	WG1825305
n-Propylbenzene	U		0.0472	0.200	1	03/02/2022 03:42	WG1825305
Styrene	U		0.109	0.500	1	03/02/2022 03:42	WG1825305
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/02/2022 03:42	WG1825305
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/02/2022 03:42	WG1825305
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/02/2022 03:42	WG1825305
Tetrachloroethene	U		0.0280	0.100	1	03/02/2022 03:42	WG1825305
Toluene	U		0.0500	0.200	1	03/02/2022 03:42	WG1825305
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/02/2022 03:42	WG1825305
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/02/2022 03:42	WG1825305
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/02/2022 03:42	WG1825305
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/02/2022 03:42	WG1825305
Trichloroethene	U		0.0160	0.0400	1	03/02/2022 03:42	WG1825305
Trichlorofluoromethane	U		0.0200	0.100	1	03/02/2022 03:42	WG1825305
1,2,3-Trichloropropane	U		0.204	0.500	1	03/02/2022 03:42	WG1825305
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/02/2022 03:42	WG1825305
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/02/2022 03:42	WG1825305
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/02/2022 03:42	WG1825305
Vinyl chloride	U		0.0273	0.100	1	03/02/2022 03:42	WG1825305
Xylenes, Total	U		0.191	0.260	1	03/02/2022 03:42	WG1825305
Ethyl Ether	U		0.0170	0.100	1	03/02/2022 03:42	WG1825305
Tetrahydrofuran	U		0.0900	0.500	1	03/02/2022 03:42	WG1825305
Iodomethane	U		0.242	0.500	1	03/02/2022 03:42	WG1825305
Allyl chloride	U		0.580	1.00	1	03/02/2022 03:42	WG1825305
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/02/2022 03:42	WG1825305
(S) Toluene-d8	105			75.0-131		03/02/2022 03:42	WG1825305
(S) 4-Bromofluorobenzene	96.9			67.0-138		03/02/2022 03:42	WG1825305
(S) 1,2-Dichloroethane-d4	110			70.0-130		03/02/2022 03:42	WG1825305

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	35500		594	5000	1	03/01/2022 18:33	WG1825481

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1610		102	1000	1	03/03/2022 23:58	WG1826609

Metals (ICPMS) by Method 6020B

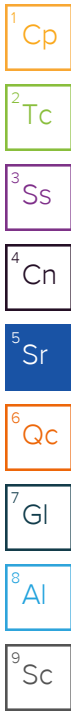
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	93.3	J	28.1	100	1	03/03/2022 00:23	WG1825528
Manganese	51.8		0.704	5.00	1	03/03/2022 00:23	WG1825528

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	U		0.287	0.678	1	03/04/2022 11:54	WG1825932
Ethane	U		0.296	1.29	1	03/04/2022 11:54	WG1825932
Ethene	U		0.422	1.27	1	03/04/2022 11:54	WG1825932

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	03/02/2022 04:01	WG1825305
Acrylonitrile	U		0.0760	0.500	1	03/02/2022 04:01	WG1825305
Benzene	U		0.0160	0.0400	1	03/02/2022 04:01	WG1825305
Bromobenzene	U		0.0420	0.500	1	03/02/2022 04:01	WG1825305
Bromodichloromethane	U		0.0315	0.100	1	03/02/2022 04:01	WG1825305
Bromoform	U		0.239	1.00	1	03/02/2022 04:01	WG1825305
Bromomethane	U		0.148	0.500	1	03/02/2022 04:01	WG1825305
n-Butylbenzene	U		0.153	0.500	1	03/02/2022 04:01	WG1825305
sec-Butylbenzene	U		0.101	0.500	1	03/02/2022 04:01	WG1825305
tert-Butylbenzene	U		0.0620	0.200	1	03/02/2022 04:01	WG1825305
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/02/2022 04:01	WG1825305
Chlorobenzene	U		0.0229	0.100	1	03/02/2022 04:01	WG1825305
Chlorodibromomethane	U		0.0180	0.100	1	03/02/2022 04:01	WG1825305
Chloroethane	U		0.0432	0.200	1	03/02/2022 04:01	WG1825305
Chloroform	U		0.0166	0.100	1	03/02/2022 04:01	WG1825305
Chloromethane	U		0.0556	0.500	1	03/02/2022 04:01	WG1825305
2-Chlorotoluene	U		0.0368	0.100	1	03/02/2022 04:01	WG1825305
4-Chlorotoluene	U		0.0452	0.200	1	03/02/2022 04:01	WG1825305
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/02/2022 04:01	WG1825305
1,2-Dibromoethane	U		0.0210	0.100	1	03/02/2022 04:01	WG1825305
Dibromomethane	U		0.0400	0.200	1	03/02/2022 04:01	WG1825305
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/02/2022 04:01	WG1825305
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/02/2022 04:01	WG1825305
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/02/2022 04:01	WG1825305
Dichlorodifluoromethane	U		0.0327	0.100	1	03/02/2022 04:01	WG1825305
1,1-Dichloroethane	U		0.0230	0.100	1	03/02/2022 04:01	WG1825305
1,2-Dichloroethane	U		0.0190	0.100	1	03/02/2022 04:01	WG1825305
1,1-Dichloroethene	U		0.0200	0.100	1	03/02/2022 04:01	WG1825305
cis-1,2-Dichloroethene	3.49		0.0276	0.100	1	03/02/2022 04:01	WG1825305
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/02/2022 04:01	WG1825305
1,2-Dichloropropane	U		0.0508	0.200	1	03/02/2022 04:01	WG1825305



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/02/2022 04:01	WG1825305
1,3-Dichloropropane	U		0.0700	0.200	1	03/02/2022 04:01	WG1825305
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/02/2022 04:01	WG1825305
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/02/2022 04:01	WG1825305
2,2-Dichloropropane	U		0.0317	0.100	1	03/02/2022 04:01	WG1825305
Di-isopropyl ether	U		0.0140	0.0400	1	03/02/2022 04:01	WG1825305
Ethylbenzene	U		0.0212	0.100	1	03/02/2022 04:01	WG1825305
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/02/2022 04:01	WG1825305
Isopropylbenzene	U		0.0345	0.100	1	03/02/2022 04:01	WG1825305
p-Isopropyltoluene	U		0.0932	0.200	1	03/02/2022 04:01	WG1825305
2-Butanone (MEK)	U		0.500	1.00	1	03/02/2022 04:01	WG1825305
Methylene Chloride	U		0.265	1.00	1	03/02/2022 04:01	WG1825305
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/02/2022 04:01	WG1825305
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/02/2022 04:01	WG1825305
Naphthalene	U		0.124	0.500	1	03/02/2022 04:01	WG1825305
n-Propylbenzene	U		0.0472	0.200	1	03/02/2022 04:01	WG1825305
Styrene	U		0.109	0.500	1	03/02/2022 04:01	WG1825305
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/02/2022 04:01	WG1825305
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/02/2022 04:01	WG1825305
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/02/2022 04:01	WG1825305
Tetrachloroethene	43.5		0.0280	0.100	1	03/02/2022 04:01	WG1825305
Toluene	U		0.0500	0.200	1	03/02/2022 04:01	WG1825305
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/02/2022 04:01	WG1825305
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/02/2022 04:01	WG1825305
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/02/2022 04:01	WG1825305
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/02/2022 04:01	WG1825305
Trichloroethene	7.20		0.0160	0.0400	1	03/02/2022 04:01	WG1825305
Trichlorofluoromethane	U		0.0200	0.100	1	03/02/2022 04:01	WG1825305
1,2,3-Trichloropropane	U		0.204	0.500	1	03/02/2022 04:01	WG1825305
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/02/2022 04:01	WG1825305
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/02/2022 04:01	WG1825305
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/02/2022 04:01	WG1825305
Vinyl chloride	U		0.0273	0.100	1	03/02/2022 04:01	WG1825305
Xylenes, Total	U		0.191	0.260	1	03/02/2022 04:01	WG1825305
Ethyl Ether	U		0.0170	0.100	1	03/02/2022 04:01	WG1825305
Tetrahydrofuran	U		0.0900	0.500	1	03/02/2022 04:01	WG1825305
Iodomethane	U		0.242	0.500	1	03/02/2022 04:01	WG1825305
Allyl chloride	U		0.580	1.00	1	03/02/2022 04:01	WG1825305
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/02/2022 04:01	WG1825305
(S) Toluene-d8	99.3			75.0-131		03/02/2022 04:01	WG1825305
(S) 4-Bromofluorobenzene	94.4			67.0-138		03/02/2022 04:01	WG1825305
(S) 1,2-Dichloroethane-d4	110			70.0-130		03/02/2022 04:01	WG1825305

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	80300		2970	25000	5	03/01/2022 19:40	WG1825481

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2790		102	1000	1	03/04/2022 00:14	WG1826609

Metals (ICPMS) by Method 6020B

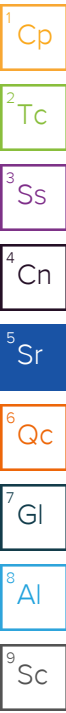
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1260	J	562	2000	20	03/03/2022 12:29	WG1825528
Manganese	3090		14.1	100	20	03/03/2022 12:29	WG1825528

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	4620		0.287	0.678	1	03/04/2022 12:12	WG1825932
Ethane	5.97		0.296	1.29	1	03/04/2022 12:12	WG1825932
Ethene	U		0.422	1.27	1	03/04/2022 12:12	WG1825932

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		13.7	25.0	25	03/02/2022 04:58	WG1825305
Acrylonitrile	U		1.90	12.5	25	03/02/2022 04:58	WG1825305
Benzene	U		0.400	1.00	25	03/02/2022 04:58	WG1825305
Bromobenzene	U		1.05	12.5	25	03/02/2022 04:58	WG1825305
Bromodichloromethane	U		0.788	2.50	25	03/02/2022 04:58	WG1825305
Bromoform	U		5.98	25.0	25	03/02/2022 04:58	WG1825305
Bromomethane	U		3.70	12.5	25	03/02/2022 04:58	WG1825305
n-Butylbenzene	U		3.83	12.5	25	03/02/2022 04:58	WG1825305
sec-Butylbenzene	U		2.53	12.5	25	03/02/2022 04:58	WG1825305
tert-Butylbenzene	U		1.55	5.00	25	03/02/2022 04:58	WG1825305
Carbon tetrachloride	U	J4	1.08	5.00	25	03/02/2022 04:58	WG1825305
Chlorobenzene	U		0.573	2.50	25	03/02/2022 04:58	WG1825305
Chlorodibromomethane	U		0.450	2.50	25	03/02/2022 04:58	WG1825305
Chloroethane	U		1.08	5.00	25	03/02/2022 04:58	WG1825305
Chloroform	U		0.415	2.50	25	03/02/2022 04:58	WG1825305
Chloromethane	U		1.39	12.5	25	03/02/2022 04:58	WG1825305
2-Chlorotoluene	U		0.920	2.50	25	03/02/2022 04:58	WG1825305
4-Chlorotoluene	U		1.13	5.00	25	03/02/2022 04:58	WG1825305
1,2-Dibromo-3-Chloropropane	U		5.10	25.0	25	03/02/2022 04:58	WG1825305
1,2-Dibromoethane	U		0.525	2.50	25	03/02/2022 04:58	WG1825305
Dibromomethane	U		1.00	5.00	25	03/02/2022 04:58	WG1825305
1,2-Dichlorobenzene	U		1.45	5.00	25	03/02/2022 04:58	WG1825305
1,3-Dichlorobenzene	U		1.70	5.00	25	03/02/2022 04:58	WG1825305
1,4-Dichlorobenzene	U		1.97	5.00	25	03/02/2022 04:58	WG1825305
Dichlorodifluoromethane	U		0.818	2.50	25	03/02/2022 04:58	WG1825305
1,1-Dichloroethane	U		0.575	2.50	25	03/02/2022 04:58	WG1825305
1,2-Dichloroethane	U		0.475	2.50	25	03/02/2022 04:58	WG1825305
1,1-Dichloroethene	U		0.500	2.50	25	03/02/2022 04:58	WG1825305
cis-1,2-Dichloroethene	374		0.690	2.50	25	03/02/2022 04:58	WG1825305
trans-1,2-Dichloroethene	U		1.43	5.00	25	03/02/2022 04:58	WG1825305
1,2-Dichloropropane	U		1.27	5.00	25	03/02/2022 04:58	WG1825305



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.700	2.50	25	03/02/2022 04:58	WG1825305
1,3-Dichloropropane	U		1.75	5.00	25	03/02/2022 04:58	WG1825305
cis-1,3-Dichloropropene	U		0.678	2.50	25	03/02/2022 04:58	WG1825305
trans-1,3-Dichloropropene	U		1.53	5.00	25	03/02/2022 04:58	WG1825305
2,2-Dichloropropane	U		0.793	2.50	25	03/02/2022 04:58	WG1825305
Di-isopropyl ether	U		0.350	1.00	25	03/02/2022 04:58	WG1825305
Ethylbenzene	U		0.530	2.50	25	03/02/2022 04:58	WG1825305
Hexachloro-1,3-butadiene	U		12.7	25.0	25	03/02/2022 04:58	WG1825305
Isopropylbenzene	U		0.863	2.50	25	03/02/2022 04:58	WG1825305
p-Isopropyltoluene	U		2.33	5.00	25	03/02/2022 04:58	WG1825305
2-Butanone (MEK)	U		12.5	25.0	25	03/02/2022 04:58	WG1825305
Methylene Chloride	U		6.63	25.0	25	03/02/2022 04:58	WG1825305
4-Methyl-2-pentanone (MIBK)	U		10.0	25.0	25	03/02/2022 04:58	WG1825305
Methyl tert-butyl ether	U		0.295	1.00	25	03/02/2022 04:58	WG1825305
Naphthalene	U		3.10	12.5	25	03/02/2022 04:58	WG1825305
n-Propylbenzene	U		1.18	5.00	25	03/02/2022 04:58	WG1825305
Styrene	U		2.73	12.5	25	03/02/2022 04:58	WG1825305
1,1,1,2-Tetrachloroethane	U		0.500	2.50	25	03/02/2022 04:58	WG1825305
1,1,2,2-Tetrachloroethane	U		0.390	2.50	25	03/02/2022 04:58	WG1825305
1,1,2-Trichlorotrifluoroethane	U		0.675	2.50	25	03/02/2022 04:58	WG1825305
Tetrachloroethene	671		0.700	2.50	25	03/02/2022 04:58	WG1825305
Toluene	U		1.25	5.00	25	03/02/2022 04:58	WG1825305
1,2,3-Trichlorobenzene	U		0.625	12.5	25	03/02/2022 04:58	WG1825305
1,2,4-Trichlorobenzene	U		4.83	12.5	25	03/02/2022 04:58	WG1825305
1,1,1-Trichloroethane	U		0.275	2.50	25	03/02/2022 04:58	WG1825305
1,1,2-Trichloroethane	U		0.883	2.50	25	03/02/2022 04:58	WG1825305
Trichloroethene	241		0.400	1.00	25	03/02/2022 04:58	WG1825305
Trichlorofluoromethane	U		0.500	2.50	25	03/02/2022 04:58	WG1825305
1,2,3-Trichloropropane	U		5.10	12.5	25	03/02/2022 04:58	WG1825305
1,2,4-Trimethylbenzene	U		1.16	5.00	25	03/02/2022 04:58	WG1825305
1,2,3-Trimethylbenzene	U		1.15	5.00	25	03/02/2022 04:58	WG1825305
1,3,5-Trimethylbenzene	U		1.08	5.00	25	03/02/2022 04:58	WG1825305
Vinyl chloride	U		0.682	2.50	25	03/02/2022 04:58	WG1825305
Xylenes, Total	U		4.78	6.50	25	03/02/2022 04:58	WG1825305
Ethyl Ether	U		0.425	2.50	25	03/02/2022 04:58	WG1825305
Tetrahydrofuran	U		2.25	12.5	25	03/02/2022 04:58	WG1825305
Iodomethane	U		6.05	12.5	25	03/02/2022 04:58	WG1825305
Allyl chloride	U		14.5	25.0	25	03/02/2022 04:58	WG1825305
Trans-1,4-Dichloro-2-butene	U		1.40	5.00	25	03/02/2022 04:58	WG1825305
(S) Toluene-d8	97.5			75.0-131		03/02/2022 04:58	WG1825305
(S) 4-Bromofluorobenzene	94.4			67.0-138		03/02/2022 04:58	WG1825305
(S) 1,2-Dichloroethane-d4	115			70.0-130		03/02/2022 04:58	WG1825305

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	8480		594	5000	1	03/01/2022 19:54	WG1825481

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	904	J	102	1000	1	03/04/2022 00:27	WG1826609

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2890		140	500	5	03/03/2022 12:32	WG1825528
Manganese	380		3.52	25.0	5	03/03/2022 12:32	WG1825528

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	146		0.287	0.678	1	03/04/2022 12:18	WG1825932
Ethane	1.88		0.296	1.29	1	03/04/2022 12:18	WG1825932
Ethene	9.65		0.422	1.27	1	03/04/2022 12:18	WG1825932

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	03/02/2022 04:20	WG1825305
Acrylonitrile	U		0.0760	0.500	1	03/02/2022 04:20	WG1825305
Benzene	U		0.0160	0.0400	1	03/02/2022 04:20	WG1825305
Bromobenzene	U		0.0420	0.500	1	03/02/2022 04:20	WG1825305
Bromodichloromethane	U		0.0315	0.100	1	03/02/2022 04:20	WG1825305
Bromoform	U		0.239	1.00	1	03/02/2022 04:20	WG1825305
Bromomethane	U		0.148	0.500	1	03/02/2022 04:20	WG1825305
n-Butylbenzene	U		0.153	0.500	1	03/02/2022 04:20	WG1825305
sec-Butylbenzene	U		0.101	0.500	1	03/02/2022 04:20	WG1825305
tert-Butylbenzene	U		0.0620	0.200	1	03/02/2022 04:20	WG1825305
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/02/2022 04:20	WG1825305
Chlorobenzene	U		0.0229	0.100	1	03/02/2022 04:20	WG1825305
Chlorodibromomethane	U		0.0180	0.100	1	03/02/2022 04:20	WG1825305
Chloroethane	U		0.0432	0.200	1	03/02/2022 04:20	WG1825305
Chloroform	U		0.0166	0.100	1	03/02/2022 04:20	WG1825305
Chloromethane	U		0.0556	0.500	1	03/02/2022 04:20	WG1825305
2-Chlorotoluene	U		0.0368	0.100	1	03/02/2022 04:20	WG1825305
4-Chlorotoluene	U		0.0452	0.200	1	03/02/2022 04:20	WG1825305
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/02/2022 04:20	WG1825305
1,2-Dibromoethane	U		0.0210	0.100	1	03/02/2022 04:20	WG1825305
Dibromomethane	U		0.0400	0.200	1	03/02/2022 04:20	WG1825305
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/02/2022 04:20	WG1825305
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/02/2022 04:20	WG1825305
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/02/2022 04:20	WG1825305
Dichlorodifluoromethane	U		0.0327	0.100	1	03/02/2022 04:20	WG1825305
1,1-Dichloroethane	U		0.0230	0.100	1	03/02/2022 04:20	WG1825305
1,2-Dichloroethane	U		0.0190	0.100	1	03/02/2022 04:20	WG1825305
1,1-Dichloroethene	U		0.0200	0.100	1	03/02/2022 04:20	WG1825305
cis-1,2-Dichloroethene	0.125		0.0276	0.100	1	03/02/2022 04:20	WG1825305
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/02/2022 04:20	WG1825305
1,2-Dichloropropane	U		0.0508	0.200	1	03/02/2022 04:20	WG1825305

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/02/2022 04:20	WG1825305
1,3-Dichloropropane	U		0.0700	0.200	1	03/02/2022 04:20	WG1825305
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/02/2022 04:20	WG1825305
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/02/2022 04:20	WG1825305
2,2-Dichloropropane	U		0.0317	0.100	1	03/02/2022 04:20	WG1825305
Di-isopropyl ether	U		0.0140	0.0400	1	03/02/2022 04:20	WG1825305
Ethylbenzene	U		0.0212	0.100	1	03/02/2022 04:20	WG1825305
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/02/2022 04:20	WG1825305
Isopropylbenzene	U		0.0345	0.100	1	03/02/2022 04:20	WG1825305
p-Isopropyltoluene	U		0.0932	0.200	1	03/02/2022 04:20	WG1825305
2-Butanone (MEK)	U		0.500	1.00	1	03/02/2022 04:20	WG1825305
Methylene Chloride	U		0.265	1.00	1	03/02/2022 04:20	WG1825305
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/02/2022 04:20	WG1825305
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/02/2022 04:20	WG1825305
Naphthalene	U		0.124	0.500	1	03/02/2022 04:20	WG1825305
n-Propylbenzene	U		0.0472	0.200	1	03/02/2022 04:20	WG1825305
Styrene	U		0.109	0.500	1	03/02/2022 04:20	WG1825305
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/02/2022 04:20	WG1825305
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/02/2022 04:20	WG1825305
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/02/2022 04:20	WG1825305
Tetrachloroethene	0.296		0.0280	0.100	1	03/02/2022 04:20	WG1825305
Toluene	U		0.0500	0.200	1	03/02/2022 04:20	WG1825305
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/02/2022 04:20	WG1825305
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/02/2022 04:20	WG1825305
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/02/2022 04:20	WG1825305
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/02/2022 04:20	WG1825305
Trichloroethene	U		0.0160	0.0400	1	03/02/2022 04:20	WG1825305
Trichlorofluoromethane	U		0.0200	0.100	1	03/02/2022 04:20	WG1825305
1,2,3-Trichloropropane	U		0.204	0.500	1	03/02/2022 04:20	WG1825305
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/02/2022 04:20	WG1825305
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/02/2022 04:20	WG1825305
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/02/2022 04:20	WG1825305
Vinyl chloride	1.14		0.0273	0.100	1	03/02/2022 04:20	WG1825305
Xylenes, Total	U		0.191	0.260	1	03/02/2022 04:20	WG1825305
Ethyl Ether	U		0.0170	0.100	1	03/02/2022 04:20	WG1825305
Tetrahydrofuran	U		0.0900	0.500	1	03/02/2022 04:20	WG1825305
Iodomethane	U		0.242	0.500	1	03/02/2022 04:20	WG1825305
Allyl chloride	U		0.580	1.00	1	03/02/2022 04:20	WG1825305
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/02/2022 04:20	WG1825305
(S) Toluene-d8	94.5			75.0-131		03/02/2022 04:20	WG1825305
(S) 4-Bromofluorobenzene	92.6			67.0-138		03/02/2022 04:20	WG1825305
(S) 1,2-Dichloroethane-d4	115			70.0-130		03/02/2022 04:20	WG1825305

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	139000		2970	25000	5	03/01/2022 20:07	WG1825481

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1870	<u>B</u>	102	1000	1	03/03/2022 17:24	WG1826611

Metals (ICPMS) by Method 6020B

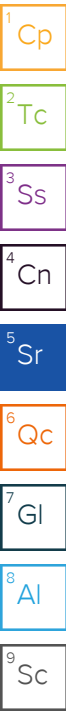
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	10200		140	500	5	03/03/2022 12:35	WG1825528
Manganese	576		3.52	25.0	5	03/03/2022 12:35	WG1825528

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	679		0.287	0.678	1	03/05/2022 09:32	WG1825939
Ethane	1.16	<u>J</u>	0.296	1.29	1	03/05/2022 09:32	WG1825939
Ethene	2.82		0.422	1.27	1	03/05/2022 09:32	WG1825939

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	03/02/2022 04:39	WG1825305
Acrylonitrile	U		0.0760	0.500	1	03/02/2022 04:39	WG1825305
Benzene	U		0.0160	0.0400	1	03/02/2022 04:39	WG1825305
Bromobenzene	U		0.0420	0.500	1	03/02/2022 04:39	WG1825305
Bromodichloromethane	U		0.0315	0.100	1	03/02/2022 04:39	WG1825305
Bromoform	U		0.239	1.00	1	03/02/2022 04:39	WG1825305
Bromomethane	U		0.148	0.500	1	03/02/2022 04:39	WG1825305
n-Butylbenzene	U		0.153	0.500	1	03/02/2022 04:39	WG1825305
sec-Butylbenzene	U		0.101	0.500	1	03/02/2022 04:39	WG1825305
tert-Butylbenzene	U		0.0620	0.200	1	03/02/2022 04:39	WG1825305
Carbon tetrachloride	U	<u>J4</u>	0.0432	0.200	1	03/02/2022 04:39	WG1825305
Chlorobenzene	U		0.0229	0.100	1	03/02/2022 04:39	WG1825305
Chlorodibromomethane	U		0.0180	0.100	1	03/02/2022 04:39	WG1825305
Chloroethane	U		0.0432	0.200	1	03/02/2022 04:39	WG1825305
Chloroform	U		0.0166	0.100	1	03/02/2022 04:39	WG1825305
Chloromethane	U		0.0556	0.500	1	03/02/2022 04:39	WG1825305
2-Chlorotoluene	U		0.0368	0.100	1	03/02/2022 04:39	WG1825305
4-Chlorotoluene	U		0.0452	0.200	1	03/02/2022 04:39	WG1825305
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/02/2022 04:39	WG1825305
1,2-Dibromoethane	U		0.0210	0.100	1	03/02/2022 04:39	WG1825305
Dibromomethane	U		0.0400	0.200	1	03/02/2022 04:39	WG1825305
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/02/2022 04:39	WG1825305
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/02/2022 04:39	WG1825305
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/02/2022 04:39	WG1825305
Dichlorodifluoromethane	U		0.0327	0.100	1	03/02/2022 04:39	WG1825305
1,1-Dichloroethane	U		0.0230	0.100	1	03/02/2022 04:39	WG1825305
1,2-Dichloroethane	U		0.0190	0.100	1	03/02/2022 04:39	WG1825305
1,1-Dichloroethene	U		0.0200	0.100	1	03/02/2022 04:39	WG1825305
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/02/2022 04:39	WG1825305
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/02/2022 04:39	WG1825305
1,2-Dichloropropane	U		0.0508	0.200	1	03/02/2022 04:39	WG1825305



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/02/2022 04:39	WG1825305
1,3-Dichloropropane	U		0.0700	0.200	1	03/02/2022 04:39	WG1825305
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/02/2022 04:39	WG1825305
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/02/2022 04:39	WG1825305
2,2-Dichloropropane	U		0.0317	0.100	1	03/02/2022 04:39	WG1825305
Di-isopropyl ether	U		0.0140	0.0400	1	03/02/2022 04:39	WG1825305
Ethylbenzene	U		0.0212	0.100	1	03/02/2022 04:39	WG1825305
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/02/2022 04:39	WG1825305
Isopropylbenzene	U		0.0345	0.100	1	03/02/2022 04:39	WG1825305
p-Isopropyltoluene	U		0.0932	0.200	1	03/02/2022 04:39	WG1825305
2-Butanone (MEK)	U		0.500	1.00	1	03/02/2022 04:39	WG1825305
Methylene Chloride	U		0.265	1.00	1	03/02/2022 04:39	WG1825305
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/02/2022 04:39	WG1825305
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/02/2022 04:39	WG1825305
Naphthalene	U		0.124	0.500	1	03/02/2022 04:39	WG1825305
n-Propylbenzene	U		0.0472	0.200	1	03/02/2022 04:39	WG1825305
Styrene	U		0.109	0.500	1	03/02/2022 04:39	WG1825305
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/02/2022 04:39	WG1825305
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/02/2022 04:39	WG1825305
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/02/2022 04:39	WG1825305
Tetrachloroethene	U		0.0280	0.100	1	03/02/2022 04:39	WG1825305
Toluene	U		0.0500	0.200	1	03/02/2022 04:39	WG1825305
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/02/2022 04:39	WG1825305
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/02/2022 04:39	WG1825305
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/02/2022 04:39	WG1825305
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/02/2022 04:39	WG1825305
Trichloroethene	U		0.0160	0.0400	1	03/02/2022 04:39	WG1825305
Trichlorofluoromethane	U		0.0200	0.100	1	03/02/2022 04:39	WG1825305
1,2,3-Trichloropropane	U		0.204	0.500	1	03/02/2022 04:39	WG1825305
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/02/2022 04:39	WG1825305
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/02/2022 04:39	WG1825305
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/02/2022 04:39	WG1825305
Vinyl chloride	0.657		0.0273	0.100	1	03/02/2022 04:39	WG1825305
Xylenes, Total	U		0.191	0.260	1	03/02/2022 04:39	WG1825305
Ethyl Ether	U		0.0170	0.100	1	03/02/2022 04:39	WG1825305
Tetrahydrofuran	U		0.0900	0.500	1	03/02/2022 04:39	WG1825305
Iodomethane	U		0.242	0.500	1	03/02/2022 04:39	WG1825305
Allyl chloride	U		0.580	1.00	1	03/02/2022 04:39	WG1825305
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/02/2022 04:39	WG1825305
(S) Toluene-d8	99.9			75.0-131		03/02/2022 04:39	WG1825305
(S) 4-Bromofluorobenzene	98.4			67.0-138		03/02/2022 04:39	WG1825305
(S) 1,2-Dichloroethane-d4	111			70.0-130		03/02/2022 04:39	WG1825305

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	4.39	C5	0.548	1.00	1	03/01/2022 23:17	WG1825305
Acrylonitrile	U		0.0760	0.500	1	03/01/2022 23:17	WG1825305
Benzene	U		0.0160	0.0400	1	03/01/2022 23:17	WG1825305
Bromobenzene	U		0.0420	0.500	1	03/01/2022 23:17	WG1825305
Bromodichloromethane	U		0.0315	0.100	1	03/01/2022 23:17	WG1825305
Bromoform	U		0.239	1.00	1	03/01/2022 23:17	WG1825305
Bromomethane	U		0.148	0.500	1	03/01/2022 23:17	WG1825305
n-Butylbenzene	U		0.153	0.500	1	03/01/2022 23:17	WG1825305
sec-Butylbenzene	U		0.101	0.500	1	03/01/2022 23:17	WG1825305
tert-Butylbenzene	U		0.0620	0.200	1	03/01/2022 23:17	WG1825305
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/01/2022 23:17	WG1825305
Chlorobenzene	U		0.0229	0.100	1	03/01/2022 23:17	WG1825305
Chlorodibromomethane	U		0.0180	0.100	1	03/01/2022 23:17	WG1825305
Chloroethane	U		0.0432	0.200	1	03/01/2022 23:17	WG1825305
Chloroform	U		0.0166	0.100	1	03/01/2022 23:17	WG1825305
Chloromethane	U		0.0556	0.500	1	03/01/2022 23:17	WG1825305
2-Chlorotoluene	U		0.0368	0.100	1	03/01/2022 23:17	WG1825305
4-Chlorotoluene	U		0.0452	0.200	1	03/01/2022 23:17	WG1825305
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/01/2022 23:17	WG1825305
1,2-Dibromoethane	U		0.0210	0.100	1	03/01/2022 23:17	WG1825305
Dibromomethane	U		0.0400	0.200	1	03/01/2022 23:17	WG1825305
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/01/2022 23:17	WG1825305
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/01/2022 23:17	WG1825305
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/01/2022 23:17	WG1825305
Dichlorodifluoromethane	U		0.0327	0.100	1	03/01/2022 23:17	WG1825305
1,1-Dichloroethane	U		0.0230	0.100	1	03/01/2022 23:17	WG1825305
1,2-Dichloroethane	U		0.0190	0.100	1	03/01/2022 23:17	WG1825305
1,1-Dichloroethene	U		0.0200	0.100	1	03/01/2022 23:17	WG1825305
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/01/2022 23:17	WG1825305
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/01/2022 23:17	WG1825305
1,2-Dichloropropane	U		0.0508	0.200	1	03/01/2022 23:17	WG1825305
1,1-Dichloropropene	U		0.0280	0.100	1	03/01/2022 23:17	WG1825305
1,3-Dichloropropane	U		0.0700	0.200	1	03/01/2022 23:17	WG1825305
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/01/2022 23:17	WG1825305
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/01/2022 23:17	WG1825305
2,2-Dichloropropane	U		0.0317	0.100	1	03/01/2022 23:17	WG1825305
Di-isopropyl ether	U		0.0140	0.0400	1	03/01/2022 23:17	WG1825305
Ethylbenzene	U		0.0212	0.100	1	03/01/2022 23:17	WG1825305
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/01/2022 23:17	WG1825305
Isopropylbenzene	U		0.0345	0.100	1	03/01/2022 23:17	WG1825305
p-Isopropyltoluene	U		0.0932	0.200	1	03/01/2022 23:17	WG1825305
2-Butanone (MEK)	U		0.500	1.00	1	03/01/2022 23:17	WG1825305
Methylene Chloride	U		0.265	1.00	1	03/01/2022 23:17	WG1825305
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/01/2022 23:17	WG1825305
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/01/2022 23:17	WG1825305
Naphthalene	U		0.124	0.500	1	03/01/2022 23:17	WG1825305
n-Propylbenzene	U		0.0472	0.200	1	03/01/2022 23:17	WG1825305
Styrene	U		0.109	0.500	1	03/01/2022 23:17	WG1825305
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/01/2022 23:17	WG1825305
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/01/2022 23:17	WG1825305
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/01/2022 23:17	WG1825305
Tetrachloroethene	U		0.0280	0.100	1	03/01/2022 23:17	WG1825305
Toluene	0.0970	J	0.0500	0.200	1	03/01/2022 23:17	WG1825305
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/01/2022 23:17	WG1825305
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/01/2022 23:17	WG1825305
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/01/2022 23:17	WG1825305

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/01/2022 23:17	WG1825305
Trichloroethene	U		0.0160	0.0400	1	03/01/2022 23:17	WG1825305
Trichlorofluoromethane	U		0.0200	0.100	1	03/01/2022 23:17	WG1825305
1,2,3-Trichloropropane	U		0.204	0.500	1	03/01/2022 23:17	WG1825305
1,2,4-Trimethylbenzene	0.0660	<u>BJ</u>	0.0464	0.200	1	03/01/2022 23:17	WG1825305
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/01/2022 23:17	WG1825305
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/01/2022 23:17	WG1825305
Vinyl chloride	U		0.0273	0.100	1	03/01/2022 23:17	WG1825305
Xylenes, Total	U		0.191	0.260	1	03/01/2022 23:17	WG1825305
Ethyl Ether	U		0.0170	0.100	1	03/01/2022 23:17	WG1825305
Tetrahydrofuran	U		0.0900	0.500	1	03/01/2022 23:17	WG1825305
Iodomethane	U		0.242	0.500	1	03/01/2022 23:17	WG1825305
Allyl chloride	U		0.580	1.00	1	03/01/2022 23:17	WG1825305
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/01/2022 23:17	WG1825305
(S) Toluene-d8	97.8			75.0-131		03/01/2022 23:17	WG1825305
(S) 4-Bromofluorobenzene	99.1			67.0-138		03/01/2022 23:17	WG1825305
(S) 1,2-Dichloroethane-d4	111			70.0-130		03/01/2022 23:17	WG1825305

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3765749-1 03/01/22 10:43

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Sulfate	U		594	5000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1466135-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1466135-05 03/01/22 17:13 • (DUP) R3765749-3 03/01/22 17:26

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	7800	7350	1	5.93		15

L1465944-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1465944-03 03/01/22 18:33 • (DUP) R3765749-6 03/01/22 18:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	35500	35700	1	0.779		15

Laboratory Control Sample (LCS)

(LCS) R3765749-2 03/01/22 10:57

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Sulfate	40000	40800	102	80.0-120	

L1466135-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1466135-05 03/01/22 17:13 • (MS) R3765749-4 03/01/22 17:40 • (MSD) R3765749-5 03/01/22 17:53

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Sulfate	50000	7800	58600	57000	102	98.5	1	80.0-120			2.71	15

L1465944-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1465944-03 03/01/22 18:33 • (MS) R3765749-7 03/01/22 19:27

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Sulfate	50000	35500	85400	100	1	80.0-120	

Method Blank (MB)

(MB) R3766310-2 03/03/22 11:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	U		102	1000

L1465723-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1465723-03 03/03/22 17:43 • (DUP) R3766310-5 03/03/22 18:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	2380	2190	1	7.97		20

L1465880-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1465880-14 03/03/22 21:28 • (DUP) R3766310-8 03/03/22 21:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	845	807	1	4.66	↓	20

Laboratory Control Sample (LCS)

(LCS) R3766310-1 03/03/22 11:28

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	75100	100	85.0-115	

L1465723-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1465723-01 03/03/22 16:00 • (MS) R3766310-3 03/03/22 16:21 • (MSD) R3766310-4 03/03/22 16:45

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	1720	52600	52700	102	102	1	80.0-120			0.266	20

L1465880-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1465880-09 03/03/22 19:27 • (MS) R3766310-6 03/03/22 19:47 • (MSD) R3766310-7 03/03/22 20:10

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	1430	52100	52600	101	102	1	80.0-120			0.956	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3766649-2 03/03/22 12:47

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	314	↓	102	1000

¹Cp

²Tc

³Ss

L1466368-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1466368-04 03/03/22 20:03 • (DUP) R3766649-5 03/03/22 20:29

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	1060	1050	1	1.17		20

⁴Cn

⁵Sr

L1466368-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1466368-10 03/04/22 01:35 • (DUP) R3766649-8 03/04/22 02:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	3440	3450	1	0.184		20

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3766649-1 03/03/22 12:21

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC	75000	71900	95.9	85.0-115	

L1465944-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1465944-06 03/03/22 17:24 • (MS) R3766649-3 03/03/22 17:50 • (MSD) R3766649-4 03/03/22 18:17

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	50000	1870	50300	49500	96.8	95.3	1	80.0-120			1.52	20

L1466368-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1466368-05 03/03/22 22:18 • (MS) R3766649-6 03/03/22 22:50 • (MSD) R3766649-7 03/03/22 23:16

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC	50000	1550	53000	53200	103	103	1	80.0-120			0.506	20

Method Blank (MB)

(MB) R3765882-1 03/02/22 23:51

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		28.1	100
Manganese	U		0.704	5.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3765882-2 03/02/22 23:54

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron	5000	4770	95.3	80.0-120	
Manganese	50.0	47.8	95.6	80.0-120	

L1466072-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1466072-11 03/02/22 23:57 • (MS) R3765882-4 03/03/22 00:04 • (MSD) R3765882-5 03/03/22 00:07

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	U	4750	4670	95.1	93.4	1	75.0-125			1.76	20
Manganese	50.0	U	47.3	48.4	94.6	96.8	1	75.0-125			2.28	20

Method Blank (MB)

(MB) R3766424-2 03/04/22 10:08

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1465727-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1465727-06 03/04/22 11:13 • (DUP) R3766424-3 03/04/22 11:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	U	U	1	0.000		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1465944-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1465944-05 03/04/22 12:18 • (DUP) R3766424-4 03/04/22 12:21

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	146	149	1	2.03		20
Ethane	1.88	1.76	1	6.59		20
Ethene	9.65	9.00	1	6.97		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3766424-1 03/04/22 10:05 • (LCSD) R3766424-5 03/04/22 12:34

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	64.2	63.4	94.7	93.5	85.0-115			1.25	20
Ethane	129	119	114	92.2	88.4	85.0-115			4.29	20
Ethene	127	120	115	94.5	90.6	85.0-115			4.26	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3766695-2 03/05/22 09:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1466135-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1466135-05 03/05/22 11:09 • (DUP) R3766695-3 03/05/22 11:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	1870	1870	1	0.000		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1466361-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1466361-04 03/05/22 12:23 • (DUP) R3766695-4 03/05/22 12:33

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	2880	2840	1	1.40		20
Ethane	2.18	2.36	1	200	P1	20
Ethene	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3766695-1 03/05/22 09:24 • (LCSD) R3766695-7 03/05/22 12:46

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	66.7	69.1	98.4	102	85.0-115			3.53	20
Ethane	129	120	117	93.0	90.7	85.0-115			2.53	20
Ethene	127	121	118	95.3	92.9	85.0-115			2.51	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1465954-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1465954-01 03/05/22 09:35 • (MS) R3766695-5 03/05/22 12:37 • (MSD) R3766695-6 03/05/22 12:40

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methane	67.8	861	1220	1140	529	412	1	85.0-115	√	√	6.78	20
Ethane	129	U	135	121	105	93.8	1	85.0-115			10.9	20
Ethene	127	U	136	122	107	96.1	1	85.0-115			10.9	20

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3765552-3 03/01/22 21:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00
Isopropylbenzene	U		0.0345	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3765552-3 03/01/22 21:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	0.107	U	0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Ethyl ether	U		0.0170	0.100
Tetrahydrofuran	U		0.0900	0.500
Iodomethane	U		0.242	0.500
Allyl Chloride	U		0.580	1.00
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
(S) Toluene-d8	96.6			75.0-131
(S) 4-Bromofluorobenzene	99.1			67.0-138
(S) 1,2-Dichloroethane-d4	107			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3765552-1 03/01/22 20:26 • (LCSD) R3765552-2 03/01/22 20:45

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	36.0	33.9	144	136	10.0-160			6.01	31
Acrylonitrile	25.0	21.5	21.9	86.0	87.6	45.0-153			1.84	22
Benzene	5.00	4.79	4.88	95.8	97.6	70.0-123			1.86	20
Bromobenzene	5.00	5.84	5.84	117	117	73.0-121			0.000	20
Bromodichloromethane	5.00	5.59	5.44	112	109	73.0-121			2.72	20
Bromoform	5.00	5.92	5.31	118	106	64.0-132			10.9	20
Bromomethane	5.00	5.81	5.58	116	112	56.0-147			4.04	20
n-Butylbenzene	5.00	5.15	4.78	103	95.6	68.0-135			7.45	20
sec-Butylbenzene	5.00	5.31	5.17	106	103	74.0-130			2.67	20
tert-Butylbenzene	5.00	5.45	5.62	109	112	75.0-127			3.07	20
Carbon tetrachloride	5.00	6.48	6.17	130	123	66.0-128	J4		4.90	20
Chlorobenzene	5.00	5.37	5.01	107	100	76.0-128			6.94	20
Chlorodibromomethane	5.00	5.76	5.22	115	104	74.0-127			9.84	20
Chloroethane	5.00	5.54	5.46	111	109	61.0-134			1.45	20
Chloroform	5.00	5.44	5.32	109	106	72.0-123			2.23	20
Chloromethane	5.00	4.80	4.54	96.0	90.8	51.0-138			5.57	20
2-Chlorotoluene	5.00	5.37	5.59	107	112	75.0-124			4.01	20
4-Chlorotoluene	5.00	5.34	5.48	107	110	75.0-124			2.59	20
1,2-Dibromo-3-Chloropropane	5.00	4.34	4.71	86.8	94.2	59.0-130			8.18	20
1,2-Dibromoethane	5.00	5.21	5.12	104	102	74.0-128			1.74	20
Dibromomethane	5.00	4.97	5.07	99.4	101	75.0-122			1.99	20
1,2-Dichlorobenzene	5.00	5.31	5.16	106	103	76.0-124			2.87	20
1,3-Dichlorobenzene	5.00	5.68	5.55	114	111	76.0-125			2.32	20
1,4-Dichlorobenzene	5.00	5.38	5.23	108	105	77.0-121			2.83	20
Dichlorodifluoromethane	5.00	6.11	5.89	122	118	43.0-156			3.67	20
1,1-Dichloroethane	5.00	5.32	5.24	106	105	70.0-127			1.52	20
1,2-Dichloroethane	5.00	5.72	5.54	114	111	65.0-131			3.20	20
1,1-Dichloroethene	5.00	5.65	5.18	113	104	65.0-131			8.68	20
cis-1,2-Dichloroethene	5.00	5.45	5.44	109	109	73.0-125			0.184	20
trans-1,2-Dichloroethene	5.00	5.57	5.40	111	108	71.0-125			3.10	20
1,2-Dichloropropane	5.00	5.17	4.88	103	97.6	74.0-125			5.77	20
1,1-Dichloropropene	5.00	5.33	5.31	107	106	73.0-125			0.376	20
1,3-Dichloropropane	5.00	5.09	5.04	102	101	80.0-125			0.987	20
cis-1,3-Dichloropropene	5.00	5.79	5.25	116	105	76.0-127			9.78	20
trans-1,3-Dichloropropene	5.00	5.58	5.38	112	108	73.0-127			3.65	20
2,2-Dichloropropane	5.00	5.27	5.23	105	105	59.0-135			0.762	20
Di-isopropyl ether	5.00	4.93	4.86	98.6	97.2	60.0-136			1.43	20
Ethylbenzene	5.00	5.37	5.31	107	106	74.0-126			1.12	20
Hexachloro-1,3-butadiene	5.00	5.72	5.45	114	109	57.0-150			4.83	20
Isopropylbenzene	5.00	5.83	4.91	117	98.2	72.0-127			17.1	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3765552-1 03/01/22 20:26 • (LCSD) R3765552-2 03/01/22 20:45

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
p-Isopropyltoluene	5.00	5.70	5.58	114	112	72.0-133			2.13	20
2-Butanone (MEK)	25.0	23.6	22.7	94.4	90.8	30.0-160			3.89	24
Methylene Chloride	5.00	4.96	4.89	99.2	97.8	68.0-123			1.42	20
4-Methyl-2-pentanone (MIBK)	25.0	26.0	24.8	104	99.2	56.0-143			4.72	20
Methyl tert-butyl ether	5.00	5.28	5.31	106	106	66.0-132			0.567	20
Naphthalene	5.00	4.18	4.16	83.6	83.2	59.0-130			0.480	20
n-Propylbenzene	5.00	5.30	5.19	106	104	74.0-126			2.10	20
Styrene	5.00	5.46	4.85	109	97.0	72.0-127			11.8	20
1,1,1,2-Tetrachloroethane	5.00	5.81	5.08	116	102	74.0-129			13.4	20
1,1,2,2-Tetrachloroethane	5.00	4.50	4.31	90.0	86.2	68.0-128			4.31	20
1,1,2-Trichlorotrifluoroethane	5.00	5.75	5.48	115	110	61.0-139			4.81	20
Tetrachloroethene	5.00	5.77	5.23	115	105	70.0-136			9.82	20
Toluene	5.00	4.87	4.47	97.4	89.4	75.0-121			8.57	20
1,2,3-Trichlorobenzene	5.00	4.42	4.44	88.4	88.8	59.0-139			0.451	20
1,2,4-Trichlorobenzene	5.00	5.17	4.67	103	93.4	62.0-137			10.2	20
1,1,1-Trichloroethane	5.00	5.98	5.57	120	111	69.0-126			7.10	20
1,1,2-Trichloroethane	5.00	5.21	4.66	104	93.2	78.0-123			11.1	20
Trichloroethene	5.00	5.83	5.69	117	114	76.0-126			2.43	20
Trichlorofluoromethane	5.00	6.44	5.96	129	119	61.0-142			7.74	20
1,2,3-Trichloropropane	5.00	5.37	6.03	107	121	67.0-129			11.6	20
1,2,4-Trimethylbenzene	5.00	5.60	5.60	112	112	70.0-126			0.000	20
1,2,3-Trimethylbenzene	5.00	5.24	5.24	105	105	74.0-124			0.000	20
1,3,5-Trimethylbenzene	5.00	5.57	5.41	111	108	73.0-127			2.91	20
Vinyl chloride	5.00	5.20	4.92	104	98.4	63.0-134			5.53	20
Xylenes, Total	15.0	16.4	14.5	109	96.7	72.0-127			12.3	20
Ethyl ether	5.00	5.56	5.06	111	101	64.0-137			9.42	20
Tetrahydrofuran	5.00	5.92	6.28	118	126	37.0-146			5.90	24
Iodomethane	25.0	28.7	28.8	115	115	74.0-134			0.348	20
Allyl chloride	25.0	28.5	28.2	114	113	70.0-131			1.06	20
trans-1,4-Dichloro-2-butene	5.00	5.30	5.54	106	111	45.0-143			4.43	20
(S) Toluene-d8				103	93.4	75.0-131				
(S) 4-Bromofluorobenzene				104	92.0	67.0-138				
(S) 1,2-Dichloroethane-d4				107	110	70.0-130				

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

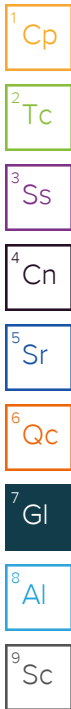
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

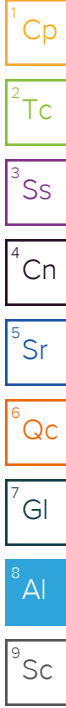
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address:
PES Environmental, Inc.- WA
 2101 Fourth Ave., Suite 1310
 Seattle, WA 98121

Billing Information:
 Attn: Accounts Payable
 2101 4th Avenue, Suite 1310
 Seattle, WA 98121

Pres Chk
 2/2
 2/2
 2/2

Chain of Custody Page 1 of 1

Report to:
Brian O'Neal/Bill Haldeman

Email To:
 Shannon.McKernan@nv5.com;brian.oneal@nv5

Project Description:
American Linen

City/State Collected:
Seattle, WA

Please Circle:
 PT MT CT ET

Phone: **206-529-3980**

Client Project #
1413.001.02.501.05

Lab Project #
PESENVSWA-ALP

Collected by (print):
HRC

Site/Facility ID #

P.O. #

Collected by (signature):
[Signature]
 Immediately Packed on Ice N Y

Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day

Quote #
 Date Results Needed
 No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
MW-138-022422	Grab	GW	110	2/24/22	1000	8
MW112-022422		GW	80		1210	8
BB-8-022422		GW	35		1350	8
MW110-022522		GW	40	2/25/22	1105	8
MW-153-022522		GW	125		1310	8
MW-148-022522		GW	75		1455	8
TB-022522	-	GW	-		1530	1
		GW				
		GW				
		GW				

Analysis / Container / Preservative	ALK 125mlHDPE-NoPres	FEG 250mlHDPE-HNO3	MNG 250mlHDPE-HNO3	RSK175LL 40mlAmb-HCl	TOC 250mlHDPE-HCl	V8260ULLC 40mlAmb-HCl	Sulfate
	X	X	X	X	X	X	X
	X	X	X	X	X	X	X
	X	X	X	X	X	X	X
	X	X	X	X	X	X	X
	X	X	X	X	X	X	X
	X	X	X	X	X	X	X
						X	

Pace
 PEOPLE ADVANCING SCIENCE
MT JULIET, TN
 12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **L1468944**
A058

Acctnum: **PESENVSWA**
 Template: **T202469**
 Prelogin: **P899982**
 PM: **546 - Jared Starkey**
 PB: **NS 1119122**

Shipped Via:
 Remarks Sample # (lab only)

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: **Cooler 2/2**
 pH _____ Temp _____
 Flow _____ Other _____
 Samples returned via: ___ UPS ___ FedEx ___ Courier
 Tracking # **5528 5947 0024**

Sample Receipt Checklist	
COC Seal Present/Intact:	NP <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable	
VOA Zero Headspace:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Relinquished by: (Signature) *[Signature]* Date: **2/25/22** Time: **1600**
 Received by: (Signature) _____ Trip Blank Received: Yes/No
 HCL / MeOH
 TBA
 Bottles Received: **0.9 + 0.9 = 1.8**
 Relinquished by: (Signature) _____ Date: _____ Time: _____
 Received by: (Signature) _____ Date: _____ Time: _____
 Relinquished by: (Signature) _____ Date: _____ Time: _____
 Received for lab by: (Signature) *[Signature]* Date: **2/26/22** Time: **0930**
 Hold: _____ Condition: **NCF / OK**

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

PES Environmental, Inc.- WA

Sample Delivery Group: L1467590
Samples Received: 03/03/2022
Project Number: 1413.001.02.501
Description: American Linen

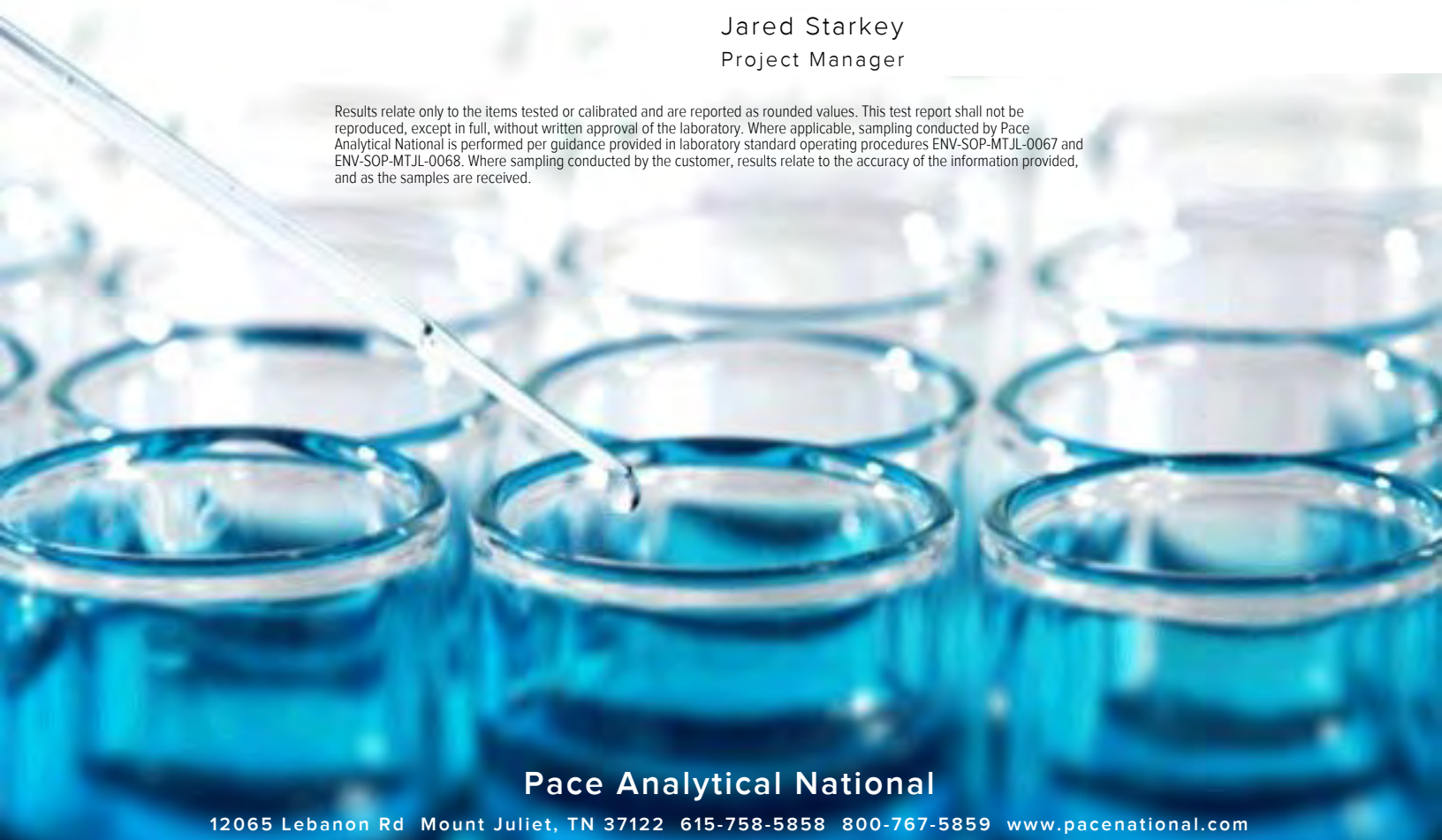
Report To: Brian O'Neal/Bill Haldeman
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:



Jared Starkey
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

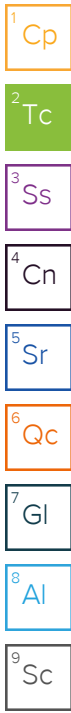


Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
MW-155-030122 L1467590-01	5
MW-335-030222 L1467590-02	7
MW-336-030222 L1467590-03	9
FMW-142-030222 L1467590-04	11
MW123-030222 L1467590-05	13
MW119-030222 L1467590-06	15
FMW-140-030222 L1467590-07	17
Qc: Quality Control Summary	19
Wet Chemistry by Method 300.0	19
Wet Chemistry by Method 9060A	21
Metals (ICPMS) by Method 6020B	22
Volatile Organic Compounds (GC) by Method RSK175	23
Volatile Organic Compounds (GC/MS) by Method 8260D	25
Gl: Glossary of Terms	30
Al: Accreditations & Locations	31
Sc: Sample Chain of Custody	32



SAMPLE SUMMARY

MW-155-030122 L1467590-01 GW

Collected by BLH/RTM Collected date/time 03/01/22 15:30 Received date/time 03/03/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1828695	5	03/07/22 21:37	03/07/22 21:37	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1827675	1	03/05/22 20:09	03/05/22 20:09	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1828306	1	03/08/22 00:35	03/08/22 14:19	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1829228	1	03/09/22 15:08	03/09/22 15:08	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1827872	1	03/07/22 16:29	03/07/22 16:29	BMB	Mt. Juliet, TN



MW-335-030222 L1467590-02 GW

Collected by BLH/RTM Collected date/time 03/02/22 10:25 Received date/time 03/03/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1827872	100	03/07/22 21:04	03/07/22 21:04	BMB	Mt. Juliet, TN



MW-336-030222 L1467590-03 GW

Collected by BLH/RTM Collected date/time 03/02/22 11:10 Received date/time 03/03/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1827872	1	03/07/22 21:43	03/07/22 21:43	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1830505	10	03/10/22 14:54	03/10/22 14:54	ADM	Mt. Juliet, TN



FMW-142-030222 L1467590-04 GW

Collected by BLH/RTM Collected date/time 03/02/22 12:10 Received date/time 03/03/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1827872	1	03/07/22 16:48	03/07/22 16:48	BMB	Mt. Juliet, TN

MW123-030222 L1467590-05 GW

Collected by BLH/RTM Collected date/time 03/02/22 13:10 Received date/time 03/03/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1827872	1	03/07/22 17:15	03/07/22 17:15	BMB	Mt. Juliet, TN

MW119-030222 L1467590-06 GW

Collected by BLH/RTM Collected date/time 03/02/22 14:05 Received date/time 03/03/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1827867	1	03/05/22 18:00	03/05/22 18:00	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1827675	1	03/05/22 20:26	03/05/22 20:26	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1828306	1	03/08/22 00:35	03/08/22 14:23	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1829663	1	03/10/22 11:08	03/10/22 11:08	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1827872	1	03/07/22 17:34	03/07/22 17:34	BMB	Mt. Juliet, TN

FMW-140-030222 L1467590-07 GW

Collected by BLH/RTM Collected date/time 03/02/22 14:00 Received date/time 03/03/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1827872	1	03/07/22 17:53	03/07/22 17:53	BMB	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jared Starkey
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	128000		2970	25000	5	03/07/2022 21:37	WG1828695

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2100	<u>B</u>	102	1000	1	03/05/2022 20:09	WG1827675

Metals (ICPMS) by Method 6020B

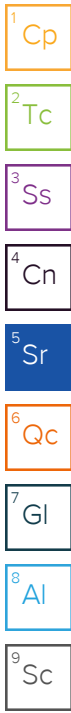
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	249		28.1	100	1	03/08/2022 14:19	WG1828306
Manganese	167		0.704	5.00	1	03/08/2022 14:19	WG1828306

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	46.2		0.287	0.678	1	03/09/2022 15:08	WG1829228
Ethane	U		0.296	1.29	1	03/09/2022 15:08	WG1829228
Ethene	U		0.422	1.27	1	03/09/2022 15:08	WG1829228

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.26	<u>C5 J4</u>	0.548	1.00	1	03/07/2022 16:29	WG1827872
Acrylonitrile	U		0.0760	0.500	1	03/07/2022 16:29	WG1827872
Benzene	U		0.0160	0.0400	1	03/07/2022 16:29	WG1827872
Bromobenzene	U		0.0420	0.500	1	03/07/2022 16:29	WG1827872
Bromodichloromethane	U		0.0315	0.100	1	03/07/2022 16:29	WG1827872
Bromoform	U		0.239	1.00	1	03/07/2022 16:29	WG1827872
Bromomethane	U		0.148	0.500	1	03/07/2022 16:29	WG1827872
n-Butylbenzene	U		0.153	0.500	1	03/07/2022 16:29	WG1827872
sec-Butylbenzene	U		0.101	0.500	1	03/07/2022 16:29	WG1827872
tert-Butylbenzene	U		0.0620	0.200	1	03/07/2022 16:29	WG1827872
Carbon tetrachloride	U	<u>J4</u>	0.0432	0.200	1	03/07/2022 16:29	WG1827872
Chlorobenzene	U		0.0229	0.100	1	03/07/2022 16:29	WG1827872
Chlorodibromomethane	U		0.0180	0.100	1	03/07/2022 16:29	WG1827872
Chloroethane	U		0.0432	0.200	1	03/07/2022 16:29	WG1827872
Chloroform	U		0.0166	0.100	1	03/07/2022 16:29	WG1827872
Chloromethane	U		0.0556	0.500	1	03/07/2022 16:29	WG1827872
2-Chlorotoluene	U		0.0368	0.100	1	03/07/2022 16:29	WG1827872
4-Chlorotoluene	U		0.0452	0.200	1	03/07/2022 16:29	WG1827872
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/07/2022 16:29	WG1827872
1,2-Dibromoethane	U		0.0210	0.100	1	03/07/2022 16:29	WG1827872
Dibromomethane	U		0.0400	0.200	1	03/07/2022 16:29	WG1827872
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/07/2022 16:29	WG1827872
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/07/2022 16:29	WG1827872
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/07/2022 16:29	WG1827872
Dichlorodifluoromethane	U		0.0327	0.100	1	03/07/2022 16:29	WG1827872
1,1-Dichloroethane	U		0.0230	0.100	1	03/07/2022 16:29	WG1827872
1,2-Dichloroethane	U		0.0190	0.100	1	03/07/2022 16:29	WG1827872
1,1-Dichloroethene	0.177		0.0200	0.100	1	03/07/2022 16:29	WG1827872
cis-1,2-Dichloroethene	51.6	<u>C5</u>	0.0276	0.100	1	03/07/2022 16:29	WG1827872
trans-1,2-Dichloroethene	0.0830	<u>J</u>	0.0572	0.200	1	03/07/2022 16:29	WG1827872
1,2-Dichloropropane	U		0.0508	0.200	1	03/07/2022 16:29	WG1827872



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/07/2022 16:29	WG1827872
1,3-Dichloropropane	U		0.0700	0.200	1	03/07/2022 16:29	WG1827872
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/07/2022 16:29	WG1827872
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/07/2022 16:29	WG1827872
2,2-Dichloropropane	U		0.0317	0.100	1	03/07/2022 16:29	WG1827872
Di-isopropyl ether	U		0.0140	0.0400	1	03/07/2022 16:29	WG1827872
Ethylbenzene	U		0.0212	0.100	1	03/07/2022 16:29	WG1827872
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/07/2022 16:29	WG1827872
Isopropylbenzene	U		0.0345	0.100	1	03/07/2022 16:29	WG1827872
p-Isopropyltoluene	U		0.0932	0.200	1	03/07/2022 16:29	WG1827872
2-Butanone (MEK)	U		0.500	1.00	1	03/07/2022 16:29	WG1827872
Methylene Chloride	U		0.265	1.00	1	03/07/2022 16:29	WG1827872
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/07/2022 16:29	WG1827872
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/07/2022 16:29	WG1827872
Naphthalene	U	C3	0.124	0.500	1	03/07/2022 16:29	WG1827872
n-Propylbenzene	U		0.0472	0.200	1	03/07/2022 16:29	WG1827872
Styrene	U		0.109	0.500	1	03/07/2022 16:29	WG1827872
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/07/2022 16:29	WG1827872
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/07/2022 16:29	WG1827872
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/07/2022 16:29	WG1827872
Tetrachloroethene	19.7		0.0280	0.100	1	03/07/2022 16:29	WG1827872
Toluene	U		0.0500	0.200	1	03/07/2022 16:29	WG1827872
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/07/2022 16:29	WG1827872
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/07/2022 16:29	WG1827872
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/07/2022 16:29	WG1827872
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/07/2022 16:29	WG1827872
Trichloroethene	6.56		0.0160	0.0400	1	03/07/2022 16:29	WG1827872
Trichlorofluoromethane	U		0.0200	0.100	1	03/07/2022 16:29	WG1827872
1,2,3-Trichloropropane	U		0.204	0.500	1	03/07/2022 16:29	WG1827872
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/07/2022 16:29	WG1827872
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/07/2022 16:29	WG1827872
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/07/2022 16:29	WG1827872
Vinyl chloride	0.240		0.0273	0.100	1	03/07/2022 16:29	WG1827872
Xylenes, Total	U		0.191	0.260	1	03/07/2022 16:29	WG1827872
Ethyl Ether	U		0.0170	0.100	1	03/07/2022 16:29	WG1827872
Tetrahydrofuran	U		0.0900	0.500	1	03/07/2022 16:29	WG1827872
Iodomethane	U		0.242	0.500	1	03/07/2022 16:29	WG1827872
Allyl chloride	U		0.580	1.00	1	03/07/2022 16:29	WG1827872
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/07/2022 16:29	WG1827872
(S) Toluene-d8	94.7			75.0-131		03/07/2022 16:29	WG1827872
(S) 4-Bromofluorobenzene	97.7			67.0-138		03/07/2022 16:29	WG1827872
(S) 1,2-Dichloroethane-d4	112			70.0-130		03/07/2022 16:29	WG1827872

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	54.8	100	100	03/07/2022 21:04	WG1827872
Acrylonitrile	U		7.60	50.0	100	03/07/2022 21:04	WG1827872
Benzene	U		1.60	4.00	100	03/07/2022 21:04	WG1827872
Bromobenzene	U		4.20	50.0	100	03/07/2022 21:04	WG1827872
Bromodichloromethane	U		3.15	10.0	100	03/07/2022 21:04	WG1827872
Bromoform	U		23.9	100	100	03/07/2022 21:04	WG1827872
Bromomethane	U		14.8	50.0	100	03/07/2022 21:04	WG1827872
n-Butylbenzene	U		15.3	50.0	100	03/07/2022 21:04	WG1827872
sec-Butylbenzene	U		10.1	50.0	100	03/07/2022 21:04	WG1827872
tert-Butylbenzene	U		6.20	20.0	100	03/07/2022 21:04	WG1827872
Carbon tetrachloride	U	J4	4.32	20.0	100	03/07/2022 21:04	WG1827872
Chlorobenzene	U		2.29	10.0	100	03/07/2022 21:04	WG1827872
Chlorodibromomethane	U		1.80	10.0	100	03/07/2022 21:04	WG1827872
Chloroethane	U		4.32	20.0	100	03/07/2022 21:04	WG1827872
Chloroform	U		1.66	10.0	100	03/07/2022 21:04	WG1827872
Chloromethane	U		5.56	50.0	100	03/07/2022 21:04	WG1827872
2-Chlorotoluene	U		3.68	10.0	100	03/07/2022 21:04	WG1827872
4-Chlorotoluene	U		4.52	20.0	100	03/07/2022 21:04	WG1827872
1,2-Dibromo-3-Chloropropane	U		20.4	100	100	03/07/2022 21:04	WG1827872
1,2-Dibromoethane	U		2.10	10.0	100	03/07/2022 21:04	WG1827872
Dibromomethane	U		4.00	20.0	100	03/07/2022 21:04	WG1827872
1,2-Dichlorobenzene	U		5.80	20.0	100	03/07/2022 21:04	WG1827872
1,3-Dichlorobenzene	U		6.80	20.0	100	03/07/2022 21:04	WG1827872
1,4-Dichlorobenzene	U		7.88	20.0	100	03/07/2022 21:04	WG1827872
Dichlorodifluoromethane	U		3.27	10.0	100	03/07/2022 21:04	WG1827872
1,1-Dichloroethane	U		2.30	10.0	100	03/07/2022 21:04	WG1827872
1,2-Dichloroethane	U		1.90	10.0	100	03/07/2022 21:04	WG1827872
1,1-Dichloroethene	U		2.00	10.0	100	03/07/2022 21:04	WG1827872
cis-1,2-Dichloroethene	818	C5	2.76	10.0	100	03/07/2022 21:04	WG1827872
trans-1,2-Dichloroethene	U		5.72	20.0	100	03/07/2022 21:04	WG1827872
1,2-Dichloropropane	U		5.08	20.0	100	03/07/2022 21:04	WG1827872
1,1-Dichloropropene	U		2.80	10.0	100	03/07/2022 21:04	WG1827872
1,3-Dichloropropane	U		7.00	20.0	100	03/07/2022 21:04	WG1827872
cis-1,3-Dichloropropene	U		2.71	10.0	100	03/07/2022 21:04	WG1827872
trans-1,3-Dichloropropene	U		6.12	20.0	100	03/07/2022 21:04	WG1827872
2,2-Dichloropropane	U		3.17	10.0	100	03/07/2022 21:04	WG1827872
Di-isopropyl ether	U		1.40	4.00	100	03/07/2022 21:04	WG1827872
Ethylbenzene	U		2.12	10.0	100	03/07/2022 21:04	WG1827872
Hexachloro-1,3-butadiene	U		50.8	100	100	03/07/2022 21:04	WG1827872
Isopropylbenzene	U		3.45	10.0	100	03/07/2022 21:04	WG1827872
p-Isopropyltoluene	U		9.32	20.0	100	03/07/2022 21:04	WG1827872
2-Butanone (MEK)	U		50.0	100	100	03/07/2022 21:04	WG1827872
Methylene Chloride	U		26.5	100	100	03/07/2022 21:04	WG1827872
4-Methyl-2-pentanone (MIBK)	U		40.0	100	100	03/07/2022 21:04	WG1827872
Methyl tert-butyl ether	U		1.18	4.00	100	03/07/2022 21:04	WG1827872
Naphthalene	U	C3	12.4	50.0	100	03/07/2022 21:04	WG1827872
n-Propylbenzene	U		4.72	20.0	100	03/07/2022 21:04	WG1827872
Styrene	U		10.9	50.0	100	03/07/2022 21:04	WG1827872
1,1,1,2-Tetrachloroethane	U		2.00	10.0	100	03/07/2022 21:04	WG1827872
1,1,2,2-Tetrachloroethane	U		1.56	10.0	100	03/07/2022 21:04	WG1827872
1,1,2-Trichlorotrifluoroethane	U		2.70	10.0	100	03/07/2022 21:04	WG1827872
Tetrachloroethene	166		2.80	10.0	100	03/07/2022 21:04	WG1827872
Toluene	U		5.00	20.0	100	03/07/2022 21:04	WG1827872
1,2,3-Trichlorobenzene	U		2.50	50.0	100	03/07/2022 21:04	WG1827872
1,2,4-Trichlorobenzene	U		19.3	50.0	100	03/07/2022 21:04	WG1827872
1,1,1-Trichloroethane	U		1.10	10.0	100	03/07/2022 21:04	WG1827872

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		3.53	10.0	100	03/07/2022 21:04	WG1827872
Trichloroethene	262		1.60	4.00	100	03/07/2022 21:04	WG1827872
Trichlorofluoromethane	U		2.00	10.0	100	03/07/2022 21:04	WG1827872
1,2,3-Trichloropropane	U		20.4	50.0	100	03/07/2022 21:04	WG1827872
1,2,4-Trimethylbenzene	U		4.64	20.0	100	03/07/2022 21:04	WG1827872
1,2,3-Trimethylbenzene	U		4.60	20.0	100	03/07/2022 21:04	WG1827872
1,3,5-Trimethylbenzene	U		4.32	20.0	100	03/07/2022 21:04	WG1827872
Vinyl chloride	U		2.73	10.0	100	03/07/2022 21:04	WG1827872
Xylenes, Total	U		19.1	26.0	100	03/07/2022 21:04	WG1827872
Ethyl Ether	U		1.70	10.0	100	03/07/2022 21:04	WG1827872
Tetrahydrofuran	U		9.00	50.0	100	03/07/2022 21:04	WG1827872
Iodomethane	U		24.2	50.0	100	03/07/2022 21:04	WG1827872
Allyl chloride	U		58.0	100	100	03/07/2022 21:04	WG1827872
Trans-1,4-Dichloro-2-butene	U		5.60	20.0	100	03/07/2022 21:04	WG1827872
(S) Toluene-d8	93.5			75.0-131		03/07/2022 21:04	WG1827872
(S) 4-Bromofluorobenzene	97.5			67.0-138		03/07/2022 21:04	WG1827872
(S) 1,2-Dichloroethane-d4	116			70.0-130		03/07/2022 21:04	WG1827872

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	03/07/2022 21:43	WG1827872
Acrylonitrile	U		0.0760	0.500	1	03/07/2022 21:43	WG1827872
Benzene	0.277		0.0160	0.0400	1	03/07/2022 21:43	WG1827872
Bromobenzene	U		0.0420	0.500	1	03/07/2022 21:43	WG1827872
Bromodichloromethane	U		0.0315	0.100	1	03/07/2022 21:43	WG1827872
Bromoform	U		0.239	1.00	1	03/07/2022 21:43	WG1827872
Bromomethane	U		0.148	0.500	1	03/07/2022 21:43	WG1827872
n-Butylbenzene	U		0.153	0.500	1	03/07/2022 21:43	WG1827872
sec-Butylbenzene	U		0.101	0.500	1	03/07/2022 21:43	WG1827872
tert-Butylbenzene	U		0.0620	0.200	1	03/07/2022 21:43	WG1827872
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/07/2022 21:43	WG1827872
Chlorobenzene	U		0.0229	0.100	1	03/07/2022 21:43	WG1827872
Chlorodibromomethane	U		0.0180	0.100	1	03/07/2022 21:43	WG1827872
Chloroethane	U		0.0432	0.200	1	03/07/2022 21:43	WG1827872
Chloroform	U		0.0166	0.100	1	03/07/2022 21:43	WG1827872
Chloromethane	U		0.0556	0.500	1	03/07/2022 21:43	WG1827872
2-Chlorotoluene	U		0.0368	0.100	1	03/07/2022 21:43	WG1827872
4-Chlorotoluene	U		0.0452	0.200	1	03/07/2022 21:43	WG1827872
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/07/2022 21:43	WG1827872
1,2-Dibromoethane	U		0.0210	0.100	1	03/07/2022 21:43	WG1827872
Dibromomethane	U		0.0400	0.200	1	03/07/2022 21:43	WG1827872
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/07/2022 21:43	WG1827872
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/07/2022 21:43	WG1827872
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/07/2022 21:43	WG1827872
Dichlorodifluoromethane	U		0.0327	0.100	1	03/07/2022 21:43	WG1827872
1,1-Dichloroethane	U		0.0230	0.100	1	03/07/2022 21:43	WG1827872
1,2-Dichloroethane	U		0.0190	0.100	1	03/07/2022 21:43	WG1827872
1,1-Dichloroethene	0.390		0.0200	0.100	1	03/07/2022 21:43	WG1827872
cis-1,2-Dichloroethene	223		0.276	1.00	10	03/10/2022 14:54	WG1830505
trans-1,2-Dichloroethene	0.330		0.0572	0.200	1	03/07/2022 21:43	WG1827872
1,2-Dichloropropane	U		0.0508	0.200	1	03/07/2022 21:43	WG1827872
1,1-Dichloropropene	U		0.0280	0.100	1	03/07/2022 21:43	WG1827872
1,3-Dichloropropane	U		0.0700	0.200	1	03/07/2022 21:43	WG1827872
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/07/2022 21:43	WG1827872
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/07/2022 21:43	WG1827872
2,2-Dichloropropane	U		0.0317	0.100	1	03/07/2022 21:43	WG1827872
Di-isopropyl ether	U		0.0140	0.0400	1	03/07/2022 21:43	WG1827872
Ethylbenzene	U		0.0212	0.100	1	03/07/2022 21:43	WG1827872
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/07/2022 21:43	WG1827872
Isopropylbenzene	U		0.0345	0.100	1	03/07/2022 21:43	WG1827872
p-Isopropyltoluene	U		0.0932	0.200	1	03/07/2022 21:43	WG1827872
2-Butanone (MEK)	U		0.500	1.00	1	03/07/2022 21:43	WG1827872
Methylene Chloride	U		0.265	1.00	1	03/07/2022 21:43	WG1827872
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/07/2022 21:43	WG1827872
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/07/2022 21:43	WG1827872
Naphthalene	U	C3	0.124	0.500	1	03/07/2022 21:43	WG1827872
n-Propylbenzene	U		0.0472	0.200	1	03/07/2022 21:43	WG1827872
Styrene	U		0.109	0.500	1	03/07/2022 21:43	WG1827872
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/07/2022 21:43	WG1827872
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/07/2022 21:43	WG1827872
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/07/2022 21:43	WG1827872
Tetrachloroethene	U		0.0280	0.100	1	03/07/2022 21:43	WG1827872
Toluene	U		0.0500	0.200	1	03/07/2022 21:43	WG1827872
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/07/2022 21:43	WG1827872
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/07/2022 21:43	WG1827872
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/07/2022 21:43	WG1827872

1 Cp

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4 Cn

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7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/07/2022 21:43	WG1827872
Trichloroethene	0.359		0.0160	0.0400	1	03/07/2022 21:43	WG1827872
Trichlorofluoromethane	U		0.0200	0.100	1	03/07/2022 21:43	WG1827872
1,2,3-Trichloropropane	U		0.204	0.500	1	03/07/2022 21:43	WG1827872
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/07/2022 21:43	WG1827872
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/07/2022 21:43	WG1827872
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/07/2022 21:43	WG1827872
Vinyl chloride	9.98		0.0273	0.100	1	03/07/2022 21:43	WG1827872
Xylenes, Total	U		0.191	0.260	1	03/07/2022 21:43	WG1827872
Ethyl Ether	U		0.0170	0.100	1	03/07/2022 21:43	WG1827872
Tetrahydrofuran	U		0.0900	0.500	1	03/07/2022 21:43	WG1827872
Iodomethane	U		0.242	0.500	1	03/07/2022 21:43	WG1827872
Allyl chloride	U		0.580	1.00	1	03/07/2022 21:43	WG1827872
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/07/2022 21:43	WG1827872
(S) Toluene-d8	100			75.0-131		03/07/2022 21:43	WG1827872
(S) Toluene-d8	107			75.0-131		03/10/2022 14:54	WG1830505
(S) 4-Bromofluorobenzene	96.3			67.0-138		03/07/2022 21:43	WG1827872
(S) 4-Bromofluorobenzene	102			67.0-138		03/10/2022 14:54	WG1830505
(S) 1,2-Dichloroethane-d4	109			70.0-130		03/07/2022 21:43	WG1827872
(S) 1,2-Dichloroethane-d4	103			70.0-130		03/10/2022 14:54	WG1830505

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Cp

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Tc

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Ss

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Cn

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Sr

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Al

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Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.70	C5 J4	0.548	1.00	1	03/07/2022 16:48	WG1827872
Acrylonitrile	U		0.0760	0.500	1	03/07/2022 16:48	WG1827872
Benzene	U		0.0160	0.0400	1	03/07/2022 16:48	WG1827872
Bromobenzene	U		0.0420	0.500	1	03/07/2022 16:48	WG1827872
Bromodichloromethane	U		0.0315	0.100	1	03/07/2022 16:48	WG1827872
Bromoform	U		0.239	1.00	1	03/07/2022 16:48	WG1827872
Bromomethane	U		0.148	0.500	1	03/07/2022 16:48	WG1827872
n-Butylbenzene	U		0.153	0.500	1	03/07/2022 16:48	WG1827872
sec-Butylbenzene	U		0.101	0.500	1	03/07/2022 16:48	WG1827872
tert-Butylbenzene	U		0.0620	0.200	1	03/07/2022 16:48	WG1827872
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/07/2022 16:48	WG1827872
Chlorobenzene	U		0.0229	0.100	1	03/07/2022 16:48	WG1827872
Chlorodibromomethane	U		0.0180	0.100	1	03/07/2022 16:48	WG1827872
Chloroethane	U		0.0432	0.200	1	03/07/2022 16:48	WG1827872
Chloroform	U		0.0166	0.100	1	03/07/2022 16:48	WG1827872
Chloromethane	U		0.0556	0.500	1	03/07/2022 16:48	WG1827872
2-Chlorotoluene	U		0.0368	0.100	1	03/07/2022 16:48	WG1827872
4-Chlorotoluene	U		0.0452	0.200	1	03/07/2022 16:48	WG1827872
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/07/2022 16:48	WG1827872
1,2-Dibromoethane	U		0.0210	0.100	1	03/07/2022 16:48	WG1827872
Dibromomethane	U		0.0400	0.200	1	03/07/2022 16:48	WG1827872
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/07/2022 16:48	WG1827872
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/07/2022 16:48	WG1827872
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/07/2022 16:48	WG1827872
Dichlorodifluoromethane	U		0.0327	0.100	1	03/07/2022 16:48	WG1827872
1,1-Dichloroethane	U		0.0230	0.100	1	03/07/2022 16:48	WG1827872
1,2-Dichloroethane	U		0.0190	0.100	1	03/07/2022 16:48	WG1827872
1,1-Dichloroethene	U		0.0200	0.100	1	03/07/2022 16:48	WG1827872
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/07/2022 16:48	WG1827872
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/07/2022 16:48	WG1827872
1,2-Dichloropropane	U		0.0508	0.200	1	03/07/2022 16:48	WG1827872
1,1-Dichloropropene	U		0.0280	0.100	1	03/07/2022 16:48	WG1827872
1,3-Dichloropropane	U		0.0700	0.200	1	03/07/2022 16:48	WG1827872
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/07/2022 16:48	WG1827872
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/07/2022 16:48	WG1827872
2,2-Dichloropropane	U		0.0317	0.100	1	03/07/2022 16:48	WG1827872
Di-isopropyl ether	U		0.0140	0.0400	1	03/07/2022 16:48	WG1827872
Ethylbenzene	U		0.0212	0.100	1	03/07/2022 16:48	WG1827872
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/07/2022 16:48	WG1827872
Isopropylbenzene	U		0.0345	0.100	1	03/07/2022 16:48	WG1827872
p-Isopropyltoluene	U		0.0932	0.200	1	03/07/2022 16:48	WG1827872
2-Butanone (MEK)	U		0.500	1.00	1	03/07/2022 16:48	WG1827872
Methylene Chloride	U		0.265	1.00	1	03/07/2022 16:48	WG1827872
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/07/2022 16:48	WG1827872
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/07/2022 16:48	WG1827872
Naphthalene	U	C3	0.124	0.500	1	03/07/2022 16:48	WG1827872
n-Propylbenzene	U		0.0472	0.200	1	03/07/2022 16:48	WG1827872
Styrene	U		0.109	0.500	1	03/07/2022 16:48	WG1827872
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/07/2022 16:48	WG1827872
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/07/2022 16:48	WG1827872
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/07/2022 16:48	WG1827872
Tetrachloroethene	0.117		0.0280	0.100	1	03/07/2022 16:48	WG1827872
Toluene	0.173	J	0.0500	0.200	1	03/07/2022 16:48	WG1827872
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/07/2022 16:48	WG1827872
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/07/2022 16:48	WG1827872
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/07/2022 16:48	WG1827872

1 Cp

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7 Gl

8 Al

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Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/07/2022 16:48	WG1827872
Trichloroethene	U		0.0160	0.0400	1	03/07/2022 16:48	WG1827872
Trichlorofluoromethane	U		0.0200	0.100	1	03/07/2022 16:48	WG1827872
1,2,3-Trichloropropane	U		0.204	0.500	1	03/07/2022 16:48	WG1827872
1,2,4-Trimethylbenzene	0.0710	U	0.0464	0.200	1	03/07/2022 16:48	WG1827872
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/07/2022 16:48	WG1827872
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/07/2022 16:48	WG1827872
Vinyl chloride	U		0.0273	0.100	1	03/07/2022 16:48	WG1827872
Xylenes, Total	0.199	U	0.191	0.260	1	03/07/2022 16:48	WG1827872
Ethyl Ether	U		0.0170	0.100	1	03/07/2022 16:48	WG1827872
Tetrahydrofuran	U		0.0900	0.500	1	03/07/2022 16:48	WG1827872
Iodomethane	U		0.242	0.500	1	03/07/2022 16:48	WG1827872
Allyl chloride	U		0.580	1.00	1	03/07/2022 16:48	WG1827872
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/07/2022 16:48	WG1827872
(S) Toluene-d8	94.7			75.0-131		03/07/2022 16:48	WG1827872
(S) 4-Bromofluorobenzene	98.0			67.0-138		03/07/2022 16:48	WG1827872
(S) 1,2-Dichloroethane-d4	113			70.0-130		03/07/2022 16:48	WG1827872

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Sr

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Gl

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Al

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Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.41	<u>C5 J4</u>	0.548	1.00	1	03/07/2022 17:15	WG1827872
Acrylonitrile	U		0.0760	0.500	1	03/07/2022 17:15	WG1827872
Benzene	U		0.0160	0.0400	1	03/07/2022 17:15	WG1827872
Bromobenzene	U		0.0420	0.500	1	03/07/2022 17:15	WG1827872
Bromodichloromethane	U		0.0315	0.100	1	03/07/2022 17:15	WG1827872
Bromoform	U		0.239	1.00	1	03/07/2022 17:15	WG1827872
Bromomethane	U		0.148	0.500	1	03/07/2022 17:15	WG1827872
n-Butylbenzene	U		0.153	0.500	1	03/07/2022 17:15	WG1827872
sec-Butylbenzene	U		0.101	0.500	1	03/07/2022 17:15	WG1827872
tert-Butylbenzene	U		0.0620	0.200	1	03/07/2022 17:15	WG1827872
Carbon tetrachloride	U	<u>J4</u>	0.0432	0.200	1	03/07/2022 17:15	WG1827872
Chlorobenzene	U		0.0229	0.100	1	03/07/2022 17:15	WG1827872
Chlorodibromomethane	U		0.0180	0.100	1	03/07/2022 17:15	WG1827872
Chloroethane	U		0.0432	0.200	1	03/07/2022 17:15	WG1827872
Chloroform	U		0.0166	0.100	1	03/07/2022 17:15	WG1827872
Chloromethane	U		0.0556	0.500	1	03/07/2022 17:15	WG1827872
2-Chlorotoluene	U		0.0368	0.100	1	03/07/2022 17:15	WG1827872
4-Chlorotoluene	U		0.0452	0.200	1	03/07/2022 17:15	WG1827872
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/07/2022 17:15	WG1827872
1,2-Dibromoethane	U		0.0210	0.100	1	03/07/2022 17:15	WG1827872
Dibromomethane	U		0.0400	0.200	1	03/07/2022 17:15	WG1827872
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/07/2022 17:15	WG1827872
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/07/2022 17:15	WG1827872
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/07/2022 17:15	WG1827872
Dichlorodifluoromethane	U		0.0327	0.100	1	03/07/2022 17:15	WG1827872
1,1-Dichloroethane	U		0.0230	0.100	1	03/07/2022 17:15	WG1827872
1,2-Dichloroethane	U		0.0190	0.100	1	03/07/2022 17:15	WG1827872
1,1-Dichloroethene	U		0.0200	0.100	1	03/07/2022 17:15	WG1827872
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/07/2022 17:15	WG1827872
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/07/2022 17:15	WG1827872
1,2-Dichloropropane	U		0.0508	0.200	1	03/07/2022 17:15	WG1827872
1,1-Dichloropropene	U		0.0280	0.100	1	03/07/2022 17:15	WG1827872
1,3-Dichloropropane	U		0.0700	0.200	1	03/07/2022 17:15	WG1827872
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/07/2022 17:15	WG1827872
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/07/2022 17:15	WG1827872
2,2-Dichloropropane	U		0.0317	0.100	1	03/07/2022 17:15	WG1827872
Di-isopropyl ether	0.116		0.0140	0.0400	1	03/07/2022 17:15	WG1827872
Ethylbenzene	U		0.0212	0.100	1	03/07/2022 17:15	WG1827872
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/07/2022 17:15	WG1827872
Isopropylbenzene	U		0.0345	0.100	1	03/07/2022 17:15	WG1827872
p-Isopropyltoluene	U		0.0932	0.200	1	03/07/2022 17:15	WG1827872
2-Butanone (MEK)	U		0.500	1.00	1	03/07/2022 17:15	WG1827872
Methylene Chloride	U		0.265	1.00	1	03/07/2022 17:15	WG1827872
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/07/2022 17:15	WG1827872
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/07/2022 17:15	WG1827872
Naphthalene	U	<u>C3</u>	0.124	0.500	1	03/07/2022 17:15	WG1827872
n-Propylbenzene	U		0.0472	0.200	1	03/07/2022 17:15	WG1827872
Styrene	U		0.109	0.500	1	03/07/2022 17:15	WG1827872
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/07/2022 17:15	WG1827872
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/07/2022 17:15	WG1827872
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/07/2022 17:15	WG1827872
Tetrachloroethene	U		0.0280	0.100	1	03/07/2022 17:15	WG1827872
Toluene	U		0.0500	0.200	1	03/07/2022 17:15	WG1827872
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/07/2022 17:15	WG1827872
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/07/2022 17:15	WG1827872
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/07/2022 17:15	WG1827872

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/07/2022 17:15	WG1827872
Trichloroethene	U		0.0160	0.0400	1	03/07/2022 17:15	WG1827872
Trichlorofluoromethane	U		0.0200	0.100	1	03/07/2022 17:15	WG1827872
1,2,3-Trichloropropane	U		0.204	0.500	1	03/07/2022 17:15	WG1827872
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/07/2022 17:15	WG1827872
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/07/2022 17:15	WG1827872
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/07/2022 17:15	WG1827872
Vinyl chloride	U		0.0273	0.100	1	03/07/2022 17:15	WG1827872
Xylenes, Total	U		0.191	0.260	1	03/07/2022 17:15	WG1827872
Ethyl Ether	0.335	C5	0.0170	0.100	1	03/07/2022 17:15	WG1827872
Tetrahydrofuran	U		0.0900	0.500	1	03/07/2022 17:15	WG1827872
Iodomethane	U		0.242	0.500	1	03/07/2022 17:15	WG1827872
Allyl chloride	U		0.580	1.00	1	03/07/2022 17:15	WG1827872
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/07/2022 17:15	WG1827872
(S) Toluene-d8	96.0			75.0-131		03/07/2022 17:15	WG1827872
(S) 4-Bromofluorobenzene	103			67.0-138		03/07/2022 17:15	WG1827872
(S) 1,2-Dichloroethane-d4	112			70.0-130		03/07/2022 17:15	WG1827872

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	13600		594	5000	1	03/05/2022 18:00	WG1827867

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	6040		102	1000	1	03/05/2022 20:26	WG1827675

Metals (ICPMS) by Method 6020B

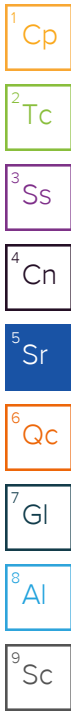
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	12300		28.1	100	1	03/08/2022 14:23	WG1828306
Manganese	2900		0.704	5.00	1	03/08/2022 14:23	WG1828306

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	1910		0.287	0.678	1	03/10/2022 11:08	WG1829663
Ethane	U		0.296	1.29	1	03/10/2022 11:08	WG1829663
Ethene	U		0.422	1.27	1	03/10/2022 11:08	WG1829663

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.30	C5 J4	0.548	1.00	1	03/07/2022 17:34	WG1827872
Acrylonitrile	U		0.0760	0.500	1	03/07/2022 17:34	WG1827872
Benzene	0.0380	J	0.0160	0.0400	1	03/07/2022 17:34	WG1827872
Bromobenzene	U		0.0420	0.500	1	03/07/2022 17:34	WG1827872
Bromodichloromethane	U		0.0315	0.100	1	03/07/2022 17:34	WG1827872
Bromoform	U		0.239	1.00	1	03/07/2022 17:34	WG1827872
Bromomethane	U		0.148	0.500	1	03/07/2022 17:34	WG1827872
n-Butylbenzene	U		0.153	0.500	1	03/07/2022 17:34	WG1827872
sec-Butylbenzene	U		0.101	0.500	1	03/07/2022 17:34	WG1827872
tert-Butylbenzene	U		0.0620	0.200	1	03/07/2022 17:34	WG1827872
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/07/2022 17:34	WG1827872
Chlorobenzene	U		0.0229	0.100	1	03/07/2022 17:34	WG1827872
Chlorodibromomethane	U		0.0180	0.100	1	03/07/2022 17:34	WG1827872
Chloroethane	U		0.0432	0.200	1	03/07/2022 17:34	WG1827872
Chloroform	U		0.0166	0.100	1	03/07/2022 17:34	WG1827872
Chloromethane	U		0.0556	0.500	1	03/07/2022 17:34	WG1827872
2-Chlorotoluene	U		0.0368	0.100	1	03/07/2022 17:34	WG1827872
4-Chlorotoluene	U		0.0452	0.200	1	03/07/2022 17:34	WG1827872
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/07/2022 17:34	WG1827872
1,2-Dibromoethane	U		0.0210	0.100	1	03/07/2022 17:34	WG1827872
Dibromomethane	U		0.0400	0.200	1	03/07/2022 17:34	WG1827872
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/07/2022 17:34	WG1827872
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/07/2022 17:34	WG1827872
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/07/2022 17:34	WG1827872
Dichlorodifluoromethane	U		0.0327	0.100	1	03/07/2022 17:34	WG1827872
1,1-Dichloroethane	U		0.0230	0.100	1	03/07/2022 17:34	WG1827872
1,2-Dichloroethane	U		0.0190	0.100	1	03/07/2022 17:34	WG1827872
1,1-Dichloroethene	U		0.0200	0.100	1	03/07/2022 17:34	WG1827872
cis-1,2-Dichloroethene	8.33	C5	0.0276	0.100	1	03/07/2022 17:34	WG1827872
trans-1,2-Dichloroethene	0.0940	J	0.0572	0.200	1	03/07/2022 17:34	WG1827872
1,2-Dichloropropane	U		0.0508	0.200	1	03/07/2022 17:34	WG1827872



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/07/2022 17:34	WG1827872
1,3-Dichloropropane	U		0.0700	0.200	1	03/07/2022 17:34	WG1827872
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/07/2022 17:34	WG1827872
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/07/2022 17:34	WG1827872
2,2-Dichloropropane	U		0.0317	0.100	1	03/07/2022 17:34	WG1827872
Di-isopropyl ether	U		0.0140	0.0400	1	03/07/2022 17:34	WG1827872
Ethylbenzene	U		0.0212	0.100	1	03/07/2022 17:34	WG1827872
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/07/2022 17:34	WG1827872
Isopropylbenzene	U		0.0345	0.100	1	03/07/2022 17:34	WG1827872
p-Isopropyltoluene	U		0.0932	0.200	1	03/07/2022 17:34	WG1827872
2-Butanone (MEK)	U		0.500	1.00	1	03/07/2022 17:34	WG1827872
Methylene Chloride	U		0.265	1.00	1	03/07/2022 17:34	WG1827872
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/07/2022 17:34	WG1827872
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/07/2022 17:34	WG1827872
Naphthalene	U	C3	0.124	0.500	1	03/07/2022 17:34	WG1827872
n-Propylbenzene	U		0.0472	0.200	1	03/07/2022 17:34	WG1827872
Styrene	U		0.109	0.500	1	03/07/2022 17:34	WG1827872
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/07/2022 17:34	WG1827872
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/07/2022 17:34	WG1827872
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/07/2022 17:34	WG1827872
Tetrachloroethene	0.443		0.0280	0.100	1	03/07/2022 17:34	WG1827872
Toluene	U		0.0500	0.200	1	03/07/2022 17:34	WG1827872
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/07/2022 17:34	WG1827872
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/07/2022 17:34	WG1827872
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/07/2022 17:34	WG1827872
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/07/2022 17:34	WG1827872
Trichloroethene	1.64		0.0160	0.0400	1	03/07/2022 17:34	WG1827872
Trichlorofluoromethane	U		0.0200	0.100	1	03/07/2022 17:34	WG1827872
1,2,3-Trichloropropane	U		0.204	0.500	1	03/07/2022 17:34	WG1827872
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/07/2022 17:34	WG1827872
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/07/2022 17:34	WG1827872
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/07/2022 17:34	WG1827872
Vinyl chloride	0.316		0.0273	0.100	1	03/07/2022 17:34	WG1827872
Xylenes, Total	U		0.191	0.260	1	03/07/2022 17:34	WG1827872
Ethyl Ether	U		0.0170	0.100	1	03/07/2022 17:34	WG1827872
Tetrahydrofuran	U		0.0900	0.500	1	03/07/2022 17:34	WG1827872
Iodomethane	U		0.242	0.500	1	03/07/2022 17:34	WG1827872
Allyl chloride	U		0.580	1.00	1	03/07/2022 17:34	WG1827872
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/07/2022 17:34	WG1827872
(S) Toluene-d8	96.3			75.0-131		03/07/2022 17:34	WG1827872
(S) 4-Bromofluorobenzene	93.9			67.0-138		03/07/2022 17:34	WG1827872
(S) 1,2-Dichloroethane-d4	108			70.0-130		03/07/2022 17:34	WG1827872

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.76	C5 J4	0.548	1.00	1	03/07/2022 17:53	WG1827872
Acrylonitrile	U		0.0760	0.500	1	03/07/2022 17:53	WG1827872
Benzene	36.9		0.0160	0.0400	1	03/07/2022 17:53	WG1827872
Bromobenzene	U		0.0420	0.500	1	03/07/2022 17:53	WG1827872
Bromodichloromethane	U		0.0315	0.100	1	03/07/2022 17:53	WG1827872
Bromoform	U		0.239	1.00	1	03/07/2022 17:53	WG1827872
Bromomethane	U		0.148	0.500	1	03/07/2022 17:53	WG1827872
n-Butylbenzene	U		0.153	0.500	1	03/07/2022 17:53	WG1827872
sec-Butylbenzene	U		0.101	0.500	1	03/07/2022 17:53	WG1827872
tert-Butylbenzene	U		0.0620	0.200	1	03/07/2022 17:53	WG1827872
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/07/2022 17:53	WG1827872
Chlorobenzene	U		0.0229	0.100	1	03/07/2022 17:53	WG1827872
Chlorodibromomethane	U		0.0180	0.100	1	03/07/2022 17:53	WG1827872
Chloroethane	U		0.0432	0.200	1	03/07/2022 17:53	WG1827872
Chloroform	0.311		0.0166	0.100	1	03/07/2022 17:53	WG1827872
Chloromethane	U		0.0556	0.500	1	03/07/2022 17:53	WG1827872
2-Chlorotoluene	U		0.0368	0.100	1	03/07/2022 17:53	WG1827872
4-Chlorotoluene	U		0.0452	0.200	1	03/07/2022 17:53	WG1827872
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/07/2022 17:53	WG1827872
1,2-Dibromoethane	U		0.0210	0.100	1	03/07/2022 17:53	WG1827872
Dibromomethane	U		0.0400	0.200	1	03/07/2022 17:53	WG1827872
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/07/2022 17:53	WG1827872
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/07/2022 17:53	WG1827872
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/07/2022 17:53	WG1827872
Dichlorodifluoromethane	U		0.0327	0.100	1	03/07/2022 17:53	WG1827872
1,1-Dichloroethane	0.151		0.0230	0.100	1	03/07/2022 17:53	WG1827872
1,2-Dichloroethane	0.165	C5	0.0190	0.100	1	03/07/2022 17:53	WG1827872
1,1-Dichloroethene	U		0.0200	0.100	1	03/07/2022 17:53	WG1827872
cis-1,2-Dichloroethene	5.50	C5	0.0276	0.100	1	03/07/2022 17:53	WG1827872
trans-1,2-Dichloroethene	0.105	J	0.0572	0.200	1	03/07/2022 17:53	WG1827872
1,2-Dichloropropane	U		0.0508	0.200	1	03/07/2022 17:53	WG1827872
1,1-Dichloropropene	U		0.0280	0.100	1	03/07/2022 17:53	WG1827872
1,3-Dichloropropane	U		0.0700	0.200	1	03/07/2022 17:53	WG1827872
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/07/2022 17:53	WG1827872
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/07/2022 17:53	WG1827872
2,2-Dichloropropane	U		0.0317	0.100	1	03/07/2022 17:53	WG1827872
Di-isopropyl ether	0.553		0.0140	0.0400	1	03/07/2022 17:53	WG1827872
Ethylbenzene	U		0.0212	0.100	1	03/07/2022 17:53	WG1827872
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/07/2022 17:53	WG1827872
Isopropylbenzene	U		0.0345	0.100	1	03/07/2022 17:53	WG1827872
p-Isopropyltoluene	U		0.0932	0.200	1	03/07/2022 17:53	WG1827872
2-Butanone (MEK)	U		0.500	1.00	1	03/07/2022 17:53	WG1827872
Methylene Chloride	U		0.265	1.00	1	03/07/2022 17:53	WG1827872
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/07/2022 17:53	WG1827872
Methyl tert-butyl ether	0.264		0.0118	0.0400	1	03/07/2022 17:53	WG1827872
Naphthalene	U	C3	0.124	0.500	1	03/07/2022 17:53	WG1827872
n-Propylbenzene	U		0.0472	0.200	1	03/07/2022 17:53	WG1827872
Styrene	U		0.109	0.500	1	03/07/2022 17:53	WG1827872
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/07/2022 17:53	WG1827872
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/07/2022 17:53	WG1827872
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/07/2022 17:53	WG1827872
Tetrachloroethene	U		0.0280	0.100	1	03/07/2022 17:53	WG1827872
Toluene	0.0950	J	0.0500	0.200	1	03/07/2022 17:53	WG1827872
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	03/07/2022 17:53	WG1827872
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/07/2022 17:53	WG1827872
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/07/2022 17:53	WG1827872

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/07/2022 17:53	WG1827872
Trichloroethene	U		0.0160	0.0400	1	03/07/2022 17:53	WG1827872
Trichlorofluoromethane	U		0.0200	0.100	1	03/07/2022 17:53	WG1827872
1,2,3-Trichloropropane	U		0.204	0.500	1	03/07/2022 17:53	WG1827872
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/07/2022 17:53	WG1827872
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/07/2022 17:53	WG1827872
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/07/2022 17:53	WG1827872
Vinyl chloride	75.1		0.0273	0.100	1	03/07/2022 17:53	WG1827872
Xylenes, Total	U		0.191	0.260	1	03/07/2022 17:53	WG1827872
Ethyl Ether	U		0.0170	0.100	1	03/07/2022 17:53	WG1827872
Tetrahydrofuran	U		0.0900	0.500	1	03/07/2022 17:53	WG1827872
Iodomethane	U		0.242	0.500	1	03/07/2022 17:53	WG1827872
Allyl chloride	U		0.580	1.00	1	03/07/2022 17:53	WG1827872
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/07/2022 17:53	WG1827872
(S) Toluene-d8	90.1			75.0-131		03/07/2022 17:53	WG1827872
(S) 4-Bromofluorobenzene	96.5			67.0-138		03/07/2022 17:53	WG1827872
(S) 1,2-Dichloroethane-d4	113			70.0-130		03/07/2022 17:53	WG1827872

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3767047-1 03/05/22 10:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Sulfate	U		594	5000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1466573-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1466573-01 03/05/22 12:32 • (DUP) R3767047-3 03/05/22 12:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	18200	18400	1	0.628		20

L1467119-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1467119-01 03/05/22 19:14 • (DUP) R3767047-6 03/05/22 19:29

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	311000	310000	20	0.278		20

Laboratory Control Sample (LCS)

(LCS) R3767047-2 03/05/22 10:20

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Sulfate	40000	39000	97.5	90.0-110	

L1467119-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1467119-01 03/05/22 19:14 • (MS) R3767047-7 03/05/22 19:44 • (MSD) R3767047-8 03/05/22 19:59

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Sulfate	50000	311000	346000	344000	70.0	65.2	20	80.0-120	✓	✓	0.701	20

Method Blank (MB)

(MB) R3767409-1 03/07/22 19:43

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Sulfate	U		594	5000

1 Cp

2 Tc

3 Ss

L1468473-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1468473-04 03/08/22 03:23 • (DUP) R3767409-6 03/08/22 03:36

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	45200	45100	1	0.132		20

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3767409-2 03/07/22 19:56

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Sulfate	40000	42000	105	90.0-110	

6 Qc

7 Gl

8 Al

L1468473-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1468473-04 03/08/22 03:23 • (MS) R3767409-7 03/08/22 03:49

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Sulfate	50000	45200	92400	94.4	1	80.0-120	

9 Sc

Method Blank (MB)

(MB) R3767300-2 03/05/22 13:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	325	↓	102	1000

¹Cp

²Tc

³Ss

L1467207-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1467207-05 03/05/22 16:12 • (DUP) R3767300-5 03/05/22 16:26

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	5990	5980	1	0.217		20

⁴Cn

⁵Sr

L1467590-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1467590-06 03/05/22 20:26 • (DUP) R3767300-8 03/05/22 21:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	6040	6330	1	4.71		20

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3767300-1 03/05/22 13:08

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	76200	102	85.0-115	

⁹Sc

L1467207-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1467207-03 03/05/22 15:12 • (MS) R3767300-3 03/05/22 15:29 • (MSD) R3767300-4 03/05/22 15:45

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	8580	59700	59900	102	103	1	80.0-120			0.318	20

Method Blank (MB)

(MB) R3767542-1 03/08/22 12:53

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		28.1	100
Manganese	U		0.704	5.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3767542-2 03/08/22 12:56

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron	5000	5070	101	80.0-120	
Manganese	50.0	49.0	98.1	80.0-120	

L1467334-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1467334-03 03/08/22 13:00 • (MS) R3767542-4 03/08/22 13:06 • (MSD) R3767542-5 03/08/22 13:09

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	13500	17800	18000	85.9	90.8	1	75.0-125			1.36	20
Manganese	50.0	253	300	303	92.9	99.9	1	75.0-125			1.16	20

Method Blank (MB)

(MB) R3768053-2 03/09/22 14:07

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1467334-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1467334-06 03/09/22 14:46 • (DUP) R3768053-3 03/09/22 14:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	2130	2140	1	0.468		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1468909-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1468909-02 03/09/22 15:55 • (DUP) R3768053-4 03/09/22 15:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	U	U	1	0.000		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3768053-1 03/09/22 14:04 • (LCSD) R3768053-5 03/09/22 16:00

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	63.4	68.4	93.5	101	85.0-115			7.59	20
Ethane	129	117	119	90.7	92.2	85.0-115			1.69	20
Ethene	127	118	119	92.9	93.7	85.0-115			0.844	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3768355-2 03/10/22 09:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1467205-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1467205-01 03/10/22 09:56 • (DUP) R3768355-3 03/10/22 10:03

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	26.1	27.3	1	4.49		20
Ethane	0.317	0.315	1	200	J P1	20
Ethene	0.537	0.625	1	200	J P1	20

L1467682-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1467682-02 03/10/22 11:18 • (DUP) R3768355-4 03/10/22 11:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	561	640	1	13.2		20
Ethane	5.52	5.81	1	5.12		20
Ethene	6.32	7.14	1	12.2		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3768355-1 03/10/22 09:08 • (LCSD) R3768355-5 03/10/22 11:25

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	67.5	65.2	99.6	96.2	85.0-115			3.47	20
Ethane	129	122	119	94.6	92.2	85.0-115			2.49	20
Ethene	127	124	120	97.6	94.5	85.0-115			3.28	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3767294-2 03/07/22 13:29

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00
Isopropylbenzene	U		0.0345	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3767294-2 03/07/22 13:29

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Ethyl ether	U		0.0170	0.100
Tetrahydrofuran	U		0.0900	0.500
Iodomethane	U		0.242	0.500
Allyl Chloride	U		0.580	1.00
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
(S) Toluene-d8	93.5			75.0-131
(S) 4-Bromofluorobenzene	94.3			67.0-138
(S) 1,2-Dichloroethane-d4	109			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3767294-1 03/07/22 12:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	47.1	188	10.0-160	J4
Acrylonitrile	25.0	25.8	103	45.0-153	
Benzene	5.00	5.26	105	70.0-123	
Bromobenzene	5.00	4.95	99.0	73.0-121	
Bromodichloromethane	5.00	6.05	121	73.0-121	
Bromoform	5.00	5.81	116	64.0-132	
Bromomethane	5.00	6.02	120	56.0-147	
n-Butylbenzene	5.00	4.58	91.6	68.0-135	
sec-Butylbenzene	5.00	4.58	91.6	74.0-130	
tert-Butylbenzene	5.00	4.65	93.0	75.0-127	
Carbon tetrachloride	5.00	6.55	131	66.0-128	J4
Chlorobenzene	5.00	5.17	103	76.0-128	
Chlorodibromomethane	5.00	5.65	113	74.0-127	
Chloroethane	5.00	5.76	115	61.0-134	
Chloroform	5.00	5.82	116	72.0-123	
Chloromethane	5.00	5.31	106	51.0-138	
2-Chlorotoluene	5.00	4.85	97.0	75.0-124	
4-Chlorotoluene	5.00	4.86	97.2	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	4.08	81.6	59.0-130	
1,2-Dibromoethane	5.00	4.98	99.6	74.0-128	
Dibromomethane	5.00	5.75	115	75.0-122	
1,2-Dichlorobenzene	5.00	4.64	92.8	76.0-124	
1,3-Dichlorobenzene	5.00	5.00	100	76.0-125	
1,4-Dichlorobenzene	5.00	4.98	99.6	77.0-121	
Dichlorodifluoromethane	5.00	6.15	123	43.0-156	
1,1-Dichloroethane	5.00	5.79	116	70.0-127	
1,2-Dichloroethane	5.00	6.31	126	65.0-131	
1,1-Dichloroethene	5.00	5.61	112	65.0-131	
cis-1,2-Dichloroethene	5.00	6.06	121	73.0-125	
trans-1,2-Dichloroethene	5.00	5.88	118	71.0-125	
1,2-Dichloropropane	5.00	5.60	112	74.0-125	
1,1-Dichloropropene	5.00	5.54	111	73.0-125	
1,3-Dichloropropane	5.00	4.94	98.8	80.0-125	
cis-1,3-Dichloropropene	5.00	5.93	119	76.0-127	
trans-1,3-Dichloropropene	5.00	5.70	114	73.0-127	
2,2-Dichloropropane	5.00	5.77	115	59.0-135	
Di-isopropyl ether	5.00	5.46	109	60.0-136	
Ethylbenzene	5.00	5.30	106	74.0-126	
Hexachloro-1,3-butadiene	5.00	5.44	109	57.0-150	
Isopropylbenzene	5.00	5.14	103	72.0-127	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3767294-1 03/07/22 12:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
p-Isopropyltoluene	5.00	4.93	98.6	72.0-133	
2-Butanone (MEK)	25.0	27.9	112	30.0-160	
Methylene Chloride	5.00	5.27	105	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	27.1	108	56.0-143	
Methyl tert-butyl ether	5.00	5.60	112	66.0-132	
Naphthalene	5.00	3.47	69.4	59.0-130	
n-Propylbenzene	5.00	4.59	91.8	74.0-126	
Styrene	5.00	5.22	104	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	5.42	108	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	3.99	79.8	68.0-128	
1,1,2-Trichlorotrifluoroethane	5.00	5.97	119	61.0-139	
Tetrachloroethene	5.00	5.30	106	70.0-136	
Toluene	5.00	4.72	94.4	75.0-121	
1,2,3-Trichlorobenzene	5.00	4.08	81.6	59.0-139	
1,2,4-Trichlorobenzene	5.00	4.64	92.8	62.0-137	
1,1,1-Trichloroethane	5.00	5.99	120	69.0-126	
1,1,2-Trichloroethane	5.00	4.90	98.0	78.0-123	
Trichloroethene	5.00	6.02	120	76.0-126	
Trichlorofluoromethane	5.00	6.38	128	61.0-142	
1,2,3-Trichloropropane	5.00	4.90	98.0	67.0-129	
1,2,4-Trimethylbenzene	5.00	4.81	96.2	70.0-126	
1,2,3-Trimethylbenzene	5.00	4.76	95.2	74.0-124	
1,3,5-Trimethylbenzene	5.00	4.69	93.8	73.0-127	
Vinyl chloride	5.00	5.53	111	63.0-134	
Xylenes, Total	15.0	15.8	105	72.0-127	
Ethyl ether	5.00	6.03	121	64.0-137	
Tetrahydrofuran	5.00	6.34	127	37.0-146	
Iodomethane	25.0	31.0	124	74.0-134	
Allyl chloride	25.0	30.6	122	70.0-131	
trans-1,4-Dichloro-2-butene	5.00	4.47	89.4	45.0-143	
(S) Toluene-d8			93.0	75.0-131	
(S) 4-Bromofluorobenzene			100	67.0-138	
(S) 1,2-Dichloroethane-d4			109	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3768516-3 03/10/22 13:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
(S) Toluene-d8	103			75.0-131
(S) 4-Bromofluorobenzene	97.8			67.0-138
(S) 1,2-Dichloroethane-d4	105			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3768516-1 03/10/22 12:08 • (LCSD) R3768516-2 03/10/22 12:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	5.00	5.04	5.22	101	104	73.0-125			3.51	20
(S) Toluene-d8				110	112	75.0-131				
(S) 4-Bromofluorobenzene				93.1	95.6	67.0-138				
(S) 1,2-Dichloroethane-d4				102	105	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

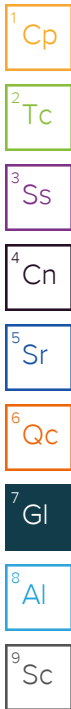
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address: **PES Environmental, Inc.- WA**
 2101 Fourth Ave., Suite 1310
 Seattle, WA 98121

Billing Information:
 Attn: Accounts Payable
 2101 4th Avenue, Suite 1310
 Seattle, WA 98121

Report to: **Brian O'Neal/Bill Haldeman**
 Email To: **Shannon.McKernan@nv5.com;brian.oneal@nv5**

Project Description: **American Linen**
 City/State Collected: **Seattle, WA**
 Please Circle: PT MT CT ET

Phone: **206-529-3980**
 Client Project #: **1413.001.02.501**
 Lab Project #: **PESENVSWA-ALP**

Collected by (print): **BH/RTM**
 Site/Facility ID #: **443018-1413001.05.601**

Collected by (signature): *[Signature]*
 Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day
 Date Results Needed: **Standard**
 No. of Cntrs: **8**

Chain of Custody Page ___ of ___

Pace
 PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **4467590**
J224

Table

Acctnum: **PESENVSWA**
 Template: **T203400**
 Prelogin: **P903823**
 PM: **546 - Jared Starkey**
 PB: **CR 2-8-22**

Shipped Via:

Remarks | Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK 125mIHDPE-NoPres	FEG, MNG 250mIHDPE-HNO3	FEG, MNG 250mIHDPE-HNO3	NWTPHGX 40mIAmb HCl	RSK175LL 40mIAmb-HCl	SULFATE 125mIHDPE-NoPres	TOC 250mIHDPE-HCl	V8260ULLC 40mIAmb-HCl		
MW-155-030122	Grab	GW		3/1/22	1530	8		X			X	X	X	X		-01
MW-335-030222		GW		3/2/22	1025	3								X		-02
MW-336-030222		GW			1110	3								X		-03
FMW-142-030222		GW			1210	3								X		-04
MW123-030222		GW			1310	3								X		-05
FMW-140-030222		GW			1405	8		X			X	X	X	X		-06
FMW-140-030222	Grab	GW			1410	3								X		-07
		GW														
		GW														
		GW														

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:

Samples returned via: UPS FedEx Courier

Tracking # **5528 5946 7760**

Relinquished by: (Signature) *[Signature]* Date: **3/2/2022** Time: **1535**

Received by: (Signature) *[Signature]* Trip Blank Received: YES / NO
 HQ / MeOH
 TBR

Temp: **17.8°C** Bottles Received: **31**

Relinquished by: (Signature) *[Signature]* Date: **3/3/22** Time: **0915**

Received for lab by: (Signature) *[Signature]* Date: **3/3/22** Time: **0915**

Hold: Condition: **NCF / OK**

Sample Receipt Checklist
 COC Seal Present/Intact: NP Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 If Applicable
 VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: Y N

PES Environmental, Inc.- WA

Sample Delivery Group: L1468403
Samples Received: 03/05/2022
Project Number: 1413.001.02.501.05
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:



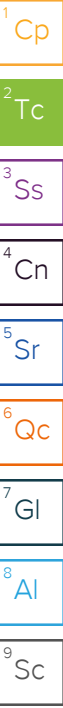
Jared Starkey
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	6
Sr: Sample Results	7
MW-326-030322 L1468403-01	7
MW-325-030322 L1468403-02	9
FMW-129-030322 L1468403-03	11
MW-968-030322 L1468403-04	13
MW-156-030322 L1468403-05	15
MW-159-030322 L1468403-06	17
FMW-137-030422 L1468403-07	19
MW-158A-030422 L1468403-08	21
MW-189-030422 L1468403-09	23
MW-190-030422 L1468403-10	25
EQ-030422 L1468403-11	27
TB-030422 L1468403-12	29
Qc: Quality Control Summary	31
Wet Chemistry by Method 300.0	31
Wet Chemistry by Method 9060A	33
Metals (ICPMS) by Method 6020B	34
Volatile Organic Compounds (GC) by Method RSK175	35
Volatile Organic Compounds (GC/MS) by Method 8260D	37
Gl: Glossary of Terms	42
Al: Accreditations & Locations	43
Sc: Sample Chain of Custody	44



SAMPLE SUMMARY

MW-326-030322 L1468403-01 GW

Collected by Ben Hecht Collected date/time 03/03/22 09:40 Received date/time 03/05/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1829324	1	03/15/22 14:05	03/15/22 14:05	BMB	Mt. Juliet, TN

MW-325-030322 L1468403-02 GW

Collected by Ben Hecht Collected date/time 03/03/22 10:45 Received date/time 03/05/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1829324	1	03/15/22 14:24	03/15/22 14:24	BMB	Mt. Juliet, TN

FMW-129-030322 L1468403-03 GW

Collected by Ben Hecht Collected date/time 03/03/22 12:20 Received date/time 03/05/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1829324	1	03/15/22 17:20	03/15/22 17:20	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1832986	25	03/16/22 20:40	03/16/22 20:40	BMB	Mt. Juliet, TN

MW-968-030322 L1468403-04 GW

Collected by Ben Hecht Collected date/time 03/03/22 13:10 Received date/time 03/05/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1828516	1	03/08/22 03:34	03/08/22 03:34	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1829210	1	03/08/22 18:38	03/08/22 18:38	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1829397	1	03/10/22 16:40	03/11/22 15:29	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1830865	1	03/11/22 11:40	03/11/22 11:40	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1829324	1	03/15/22 14:43	03/15/22 14:43	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1832986	25	03/16/22 20:59	03/16/22 20:59	BMB	Mt. Juliet, TN

MW-156-030322 L1468403-05 GW

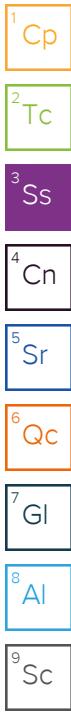
Collected by Ben Hecht Collected date/time 03/03/22 14:50 Received date/time 03/05/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1828516	1	03/08/22 03:47	03/08/22 03:47	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1829210	1	03/08/22 19:30	03/08/22 19:30	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1829397	1	03/10/22 16:40	03/11/22 15:32	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1830865	1	03/11/22 11:53	03/11/22 11:53	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1829324	10	03/15/22 17:39	03/15/22 17:39	BMB	Mt. Juliet, TN

MW-159-030322 L1468403-06 GW

Collected by Ben Hecht Collected date/time 03/03/22 15:50 Received date/time 03/05/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1828516	1	03/08/22 04:01	03/08/22 04:01	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1829210	1	03/08/22 19:45	03/08/22 19:45	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1829397	1	03/10/22 16:40	03/11/22 15:36	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1830865	1	03/11/22 11:59	03/11/22 11:59	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1829324	1	03/15/22 15:02	03/15/22 15:02	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1832986	1	03/17/22 00:17	03/17/22 00:17	BMB	Mt. Juliet, TN

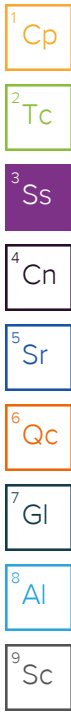


SAMPLE SUMMARY

FMW-137-030422 L1468403-07 GW

Collected by Ben Hecht Collected date/time 03/04/22 06:15 Received date/time 03/05/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1829324	1	03/15/22 15:21	03/15/22 15:21	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1832986	1	03/16/22 19:43	03/16/22 19:43	BMB	Mt. Juliet, TN



MW-158A-030422 L1468403-08 GW

Collected by Ben Hecht Collected date/time 03/04/22 08:40 Received date/time 03/05/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1828516	1	03/08/22 04:14	03/08/22 04:14	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1829210	1	03/08/22 19:59	03/08/22 19:59	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1829397	1	03/10/22 16:40	03/11/22 15:39	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1830865	1	03/11/22 12:05	03/11/22 12:05	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1829324	1	03/15/22 15:40	03/15/22 15:40	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1832986	1	03/16/22 20:02	03/16/22 20:02	BMB	Mt. Juliet, TN

MW-189-030422 L1468403-09 GW

Collected by Ben Hecht Collected date/time 03/04/22 11:15 Received date/time 03/05/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1828516	1	03/08/22 04:28	03/08/22 04:28	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1829210	1	03/08/22 20:14	03/08/22 20:14	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1829397	1	03/10/22 16:40	03/11/22 15:49	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1830865	1	03/11/22 12:08	03/11/22 12:08	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1829324	1	03/15/22 15:59	03/15/22 15:59	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1832986	1	03/16/22 20:21	03/16/22 20:21	BMB	Mt. Juliet, TN

MW-190-030422 L1468403-10 GW

Collected by Ben Hecht Collected date/time 03/04/22 13:15 Received date/time 03/05/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1828516	1	03/08/22 04:41	03/08/22 04:41	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1829210	1	03/08/22 20:28	03/08/22 20:28	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1829397	1	03/10/22 16:40	03/11/22 15:52	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1830865	1	03/11/22 12:11	03/11/22 12:11	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1829324	1	03/15/22 17:00	03/15/22 17:00	BMB	Mt. Juliet, TN

EQ-030422 L1468403-11 GW

Collected by Ben Hecht Collected date/time 03/04/22 14:30 Received date/time 03/05/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1828519	1	03/08/22 16:50	03/08/22 16:50	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1829210	1	03/08/22 21:24	03/08/22 21:24	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1829397	1	03/10/22 16:40	03/11/22 15:56	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1830865	1	03/11/22 12:17	03/11/22 12:17	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1829324	1	03/15/22 13:26	03/15/22 13:26	BMB	Mt. Juliet, TN

SAMPLE SUMMARY

TB-030422 L1468403-12 GW

Collected by: Ben Hecht
 Collected date/time: 03/04/22 15:15
 Received date/time: 03/05/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1829324	1	03/15/22 13:46	03/15/22 13:46	BMB	Mt. Juliet, TN

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Gl
- ⁸Al
- ⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jared Starkey
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

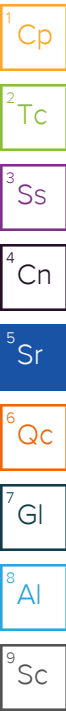
⁷ Gl

⁸ Al

⁹ Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.74	J3	0.548	1.00	1	03/15/2022 14:05	WG1829324
Acrylonitrile	U		0.0760	0.500	1	03/15/2022 14:05	WG1829324
Benzene	U		0.0160	0.0400	1	03/15/2022 14:05	WG1829324
Bromobenzene	U		0.0420	0.500	1	03/15/2022 14:05	WG1829324
Bromodichloromethane	U		0.0315	0.100	1	03/15/2022 14:05	WG1829324
Bromoform	U	C3	0.239	1.00	1	03/15/2022 14:05	WG1829324
Bromomethane	U		0.148	0.500	1	03/15/2022 14:05	WG1829324
n-Butylbenzene	U		0.153	0.500	1	03/15/2022 14:05	WG1829324
sec-Butylbenzene	U		0.101	0.500	1	03/15/2022 14:05	WG1829324
tert-Butylbenzene	U		0.0620	0.200	1	03/15/2022 14:05	WG1829324
Carbon tetrachloride	U		0.0432	0.200	1	03/15/2022 14:05	WG1829324
Chlorobenzene	U		0.0229	0.100	1	03/15/2022 14:05	WG1829324
Chlorodibromomethane	U		0.0180	0.100	1	03/15/2022 14:05	WG1829324
Chloroethane	U		0.0432	0.200	1	03/15/2022 14:05	WG1829324
Chloroform	U		0.0166	0.100	1	03/15/2022 14:05	WG1829324
Chloromethane	U		0.0556	0.500	1	03/15/2022 14:05	WG1829324
2-Chlorotoluene	U		0.0368	0.100	1	03/15/2022 14:05	WG1829324
4-Chlorotoluene	U		0.0452	0.200	1	03/15/2022 14:05	WG1829324
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/15/2022 14:05	WG1829324
1,2-Dibromoethane	U		0.0210	0.100	1	03/15/2022 14:05	WG1829324
Dibromomethane	U		0.0400	0.200	1	03/15/2022 14:05	WG1829324
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/15/2022 14:05	WG1829324
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/15/2022 14:05	WG1829324
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/15/2022 14:05	WG1829324
Dichlorodifluoromethane	U		0.0327	0.100	1	03/15/2022 14:05	WG1829324
1,1-Dichloroethane	U		0.0230	0.100	1	03/15/2022 14:05	WG1829324
1,2-Dichloroethane	U		0.0190	0.100	1	03/15/2022 14:05	WG1829324
1,1-Dichloroethene	U		0.0200	0.100	1	03/15/2022 14:05	WG1829324
cis-1,2-Dichloroethene	8.16		0.0276	0.100	1	03/15/2022 14:05	WG1829324
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/15/2022 14:05	WG1829324
1,2-Dichloropropane	U		0.0508	0.200	1	03/15/2022 14:05	WG1829324
1,1-Dichloropropene	U		0.0280	0.100	1	03/15/2022 14:05	WG1829324
1,3-Dichloropropane	U		0.0700	0.200	1	03/15/2022 14:05	WG1829324
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/15/2022 14:05	WG1829324
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/15/2022 14:05	WG1829324
2,2-Dichloropropane	U		0.0317	0.100	1	03/15/2022 14:05	WG1829324
Di-isopropyl ether	U		0.0140	0.0400	1	03/15/2022 14:05	WG1829324
Ethylbenzene	U		0.0212	0.100	1	03/15/2022 14:05	WG1829324
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/15/2022 14:05	WG1829324
Isopropylbenzene	U		0.0345	0.100	1	03/15/2022 14:05	WG1829324
p-Isopropyltoluene	U		0.0932	0.200	1	03/15/2022 14:05	WG1829324
2-Butanone (MEK)	U		0.500	1.00	1	03/15/2022 14:05	WG1829324
Methylene Chloride	U		0.265	1.00	1	03/15/2022 14:05	WG1829324
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/15/2022 14:05	WG1829324
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/15/2022 14:05	WG1829324
Naphthalene	U		0.124	0.500	1	03/15/2022 14:05	WG1829324
n-Propylbenzene	U		0.0472	0.200	1	03/15/2022 14:05	WG1829324
Styrene	U		0.109	0.500	1	03/15/2022 14:05	WG1829324
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/15/2022 14:05	WG1829324
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/15/2022 14:05	WG1829324
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/15/2022 14:05	WG1829324
Tetrachloroethene	0.316		0.0280	0.100	1	03/15/2022 14:05	WG1829324
Toluene	0.0660	J	0.0500	0.200	1	03/15/2022 14:05	WG1829324
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/15/2022 14:05	WG1829324
1,2,4-Trichlorobenzene	U	C4	0.193	0.500	1	03/15/2022 14:05	WG1829324
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/15/2022 14:05	WG1829324



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/15/2022 14:05	WG1829324
Trichloroethene	1.21		0.0160	0.0400	1	03/15/2022 14:05	WG1829324
Trichlorofluoromethane	U		0.0200	0.100	1	03/15/2022 14:05	WG1829324
1,2,3-Trichloropropane	U		0.204	0.500	1	03/15/2022 14:05	WG1829324
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/15/2022 14:05	WG1829324
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/15/2022 14:05	WG1829324
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/15/2022 14:05	WG1829324
Vinyl chloride	U		0.0273	0.100	1	03/15/2022 14:05	WG1829324
Xylenes, Total	U		0.191	0.260	1	03/15/2022 14:05	WG1829324
Ethyl Ether	U		0.0170	0.100	1	03/15/2022 14:05	WG1829324
Tetrahydrofuran	U		0.0900	0.500	1	03/15/2022 14:05	WG1829324
Iodomethane	U		0.242	0.500	1	03/15/2022 14:05	WG1829324
Allyl chloride	U		0.580	1.00	1	03/15/2022 14:05	WG1829324
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/15/2022 14:05	WG1829324
(S) Toluene-d8	103			75.0-131		03/15/2022 14:05	WG1829324
(S) 4-Bromofluorobenzene	101			67.0-138		03/15/2022 14:05	WG1829324
(S) 1,2-Dichloroethane-d4	108			70.0-130		03/15/2022 14:05	WG1829324

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.48	J3	0.548	1.00	1	03/15/2022 14:24	WG1829324
Acrylonitrile	U		0.0760	0.500	1	03/15/2022 14:24	WG1829324
Benzene	U		0.0160	0.0400	1	03/15/2022 14:24	WG1829324
Bromobenzene	U		0.0420	0.500	1	03/15/2022 14:24	WG1829324
Bromodichloromethane	U		0.0315	0.100	1	03/15/2022 14:24	WG1829324
Bromoform	U	C3	0.239	1.00	1	03/15/2022 14:24	WG1829324
Bromomethane	U		0.148	0.500	1	03/15/2022 14:24	WG1829324
n-Butylbenzene	U		0.153	0.500	1	03/15/2022 14:24	WG1829324
sec-Butylbenzene	U		0.101	0.500	1	03/15/2022 14:24	WG1829324
tert-Butylbenzene	U		0.0620	0.200	1	03/15/2022 14:24	WG1829324
Carbon tetrachloride	U		0.0432	0.200	1	03/15/2022 14:24	WG1829324
Chlorobenzene	U		0.0229	0.100	1	03/15/2022 14:24	WG1829324
Chlorodibromomethane	U		0.0180	0.100	1	03/15/2022 14:24	WG1829324
Chloroethane	U		0.0432	0.200	1	03/15/2022 14:24	WG1829324
Chloroform	U		0.0166	0.100	1	03/15/2022 14:24	WG1829324
Chloromethane	U		0.0556	0.500	1	03/15/2022 14:24	WG1829324
2-Chlorotoluene	U		0.0368	0.100	1	03/15/2022 14:24	WG1829324
4-Chlorotoluene	U		0.0452	0.200	1	03/15/2022 14:24	WG1829324
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/15/2022 14:24	WG1829324
1,2-Dibromoethane	U		0.0210	0.100	1	03/15/2022 14:24	WG1829324
Dibromomethane	U		0.0400	0.200	1	03/15/2022 14:24	WG1829324
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/15/2022 14:24	WG1829324
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/15/2022 14:24	WG1829324
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/15/2022 14:24	WG1829324
Dichlorodifluoromethane	U		0.0327	0.100	1	03/15/2022 14:24	WG1829324
1,1-Dichloroethane	U		0.0230	0.100	1	03/15/2022 14:24	WG1829324
1,2-Dichloroethane	U		0.0190	0.100	1	03/15/2022 14:24	WG1829324
1,1-Dichloroethene	U		0.0200	0.100	1	03/15/2022 14:24	WG1829324
cis-1,2-Dichloroethene	1.31		0.0276	0.100	1	03/15/2022 14:24	WG1829324
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/15/2022 14:24	WG1829324
1,2-Dichloropropane	U		0.0508	0.200	1	03/15/2022 14:24	WG1829324
1,1-Dichloropropene	U		0.0280	0.100	1	03/15/2022 14:24	WG1829324
1,3-Dichloropropane	U		0.0700	0.200	1	03/15/2022 14:24	WG1829324
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/15/2022 14:24	WG1829324
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/15/2022 14:24	WG1829324
2,2-Dichloropropane	U		0.0317	0.100	1	03/15/2022 14:24	WG1829324
Di-isopropyl ether	U		0.0140	0.0400	1	03/15/2022 14:24	WG1829324
Ethylbenzene	U		0.0212	0.100	1	03/15/2022 14:24	WG1829324
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/15/2022 14:24	WG1829324
Isopropylbenzene	U		0.0345	0.100	1	03/15/2022 14:24	WG1829324
p-Isopropyltoluene	U		0.0932	0.200	1	03/15/2022 14:24	WG1829324
2-Butanone (MEK)	U		0.500	1.00	1	03/15/2022 14:24	WG1829324
Methylene Chloride	U		0.265	1.00	1	03/15/2022 14:24	WG1829324
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/15/2022 14:24	WG1829324
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/15/2022 14:24	WG1829324
Naphthalene	U		0.124	0.500	1	03/15/2022 14:24	WG1829324
n-Propylbenzene	U		0.0472	0.200	1	03/15/2022 14:24	WG1829324
Styrene	U		0.109	0.500	1	03/15/2022 14:24	WG1829324
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/15/2022 14:24	WG1829324
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/15/2022 14:24	WG1829324
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/15/2022 14:24	WG1829324
Tetrachloroethene	U		0.0280	0.100	1	03/15/2022 14:24	WG1829324
Toluene	U		0.0500	0.200	1	03/15/2022 14:24	WG1829324
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/15/2022 14:24	WG1829324
1,2,4-Trichlorobenzene	U	C4	0.193	0.500	1	03/15/2022 14:24	WG1829324
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/15/2022 14:24	WG1829324

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/15/2022 14:24	WG1829324
Trichloroethene	U		0.0160	0.0400	1	03/15/2022 14:24	WG1829324
Trichlorofluoromethane	U		0.0200	0.100	1	03/15/2022 14:24	WG1829324
1,2,3-Trichloropropane	U		0.204	0.500	1	03/15/2022 14:24	WG1829324
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/15/2022 14:24	WG1829324
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/15/2022 14:24	WG1829324
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/15/2022 14:24	WG1829324
Vinyl chloride	U		0.0273	0.100	1	03/15/2022 14:24	WG1829324
Xylenes, Total	U		0.191	0.260	1	03/15/2022 14:24	WG1829324
Ethyl Ether	U		0.0170	0.100	1	03/15/2022 14:24	WG1829324
Tetrahydrofuran	U		0.0900	0.500	1	03/15/2022 14:24	WG1829324
Iodomethane	U		0.242	0.500	1	03/15/2022 14:24	WG1829324
Allyl chloride	U		0.580	1.00	1	03/15/2022 14:24	WG1829324
Trans-1,4-Dichloro-2-butene	U	<u>C3</u>	0.0560	0.200	1	03/15/2022 14:24	WG1829324
(S) Toluene-d8	103			75.0-131		03/15/2022 14:24	WG1829324
(S) 4-Bromofluorobenzene	101			67.0-138		03/15/2022 14:24	WG1829324
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/15/2022 14:24	WG1829324

1
Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.28	J3	0.548	1.00	1	03/15/2022 17:20	WG1829324
Acrylonitrile	U		0.0760	0.500	1	03/15/2022 17:20	WG1829324
Benzene	0.183		0.0160	0.0400	1	03/15/2022 17:20	WG1829324
Bromobenzene	U		0.0420	0.500	1	03/15/2022 17:20	WG1829324
Bromodichloromethane	U		0.0315	0.100	1	03/15/2022 17:20	WG1829324
Bromoform	U	C3	0.239	1.00	1	03/15/2022 17:20	WG1829324
Bromomethane	U		0.148	0.500	1	03/15/2022 17:20	WG1829324
n-Butylbenzene	U		0.153	0.500	1	03/15/2022 17:20	WG1829324
sec-Butylbenzene	U		0.101	0.500	1	03/15/2022 17:20	WG1829324
tert-Butylbenzene	U		0.0620	0.200	1	03/15/2022 17:20	WG1829324
Carbon tetrachloride	U		0.0432	0.200	1	03/15/2022 17:20	WG1829324
Chlorobenzene	U		0.0229	0.100	1	03/15/2022 17:20	WG1829324
Chlorodibromomethane	U		0.0180	0.100	1	03/15/2022 17:20	WG1829324
Chloroethane	U		0.0432	0.200	1	03/15/2022 17:20	WG1829324
Chloroform	U		0.0166	0.100	1	03/15/2022 17:20	WG1829324
Chloromethane	U		0.0556	0.500	1	03/15/2022 17:20	WG1829324
2-Chlorotoluene	U		0.0368	0.100	1	03/15/2022 17:20	WG1829324
4-Chlorotoluene	U		0.0452	0.200	1	03/15/2022 17:20	WG1829324
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/15/2022 17:20	WG1829324
1,2-Dibromoethane	U		0.0210	0.100	1	03/15/2022 17:20	WG1829324
Dibromomethane	U		0.0400	0.200	1	03/15/2022 17:20	WG1829324
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/15/2022 17:20	WG1829324
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/15/2022 17:20	WG1829324
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/15/2022 17:20	WG1829324
Dichlorodifluoromethane	U		0.0327	0.100	1	03/15/2022 17:20	WG1829324
1,1-Dichloroethane	0.0320	J	0.0230	0.100	1	03/15/2022 17:20	WG1829324
1,2-Dichloroethane	U		0.0190	0.100	1	03/15/2022 17:20	WG1829324
1,1-Dichloroethene	3.81		0.0200	0.100	1	03/15/2022 17:20	WG1829324
cis-1,2-Dichloroethene	846		0.690	2.50	25	03/16/2022 20:40	WG1832986
trans-1,2-Dichloroethene	2.12		0.0572	0.200	1	03/15/2022 17:20	WG1829324
1,2-Dichloropropane	U		0.0508	0.200	1	03/15/2022 17:20	WG1829324
1,1-Dichloropropene	U		0.0280	0.100	1	03/15/2022 17:20	WG1829324
1,3-Dichloropropane	U		0.0700	0.200	1	03/15/2022 17:20	WG1829324
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/15/2022 17:20	WG1829324
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/15/2022 17:20	WG1829324
2,2-Dichloropropane	U		0.0317	0.100	1	03/15/2022 17:20	WG1829324
Di-isopropyl ether	U		0.0140	0.0400	1	03/15/2022 17:20	WG1829324
Ethylbenzene	U		0.0212	0.100	1	03/15/2022 17:20	WG1829324
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/15/2022 17:20	WG1829324
Isopropylbenzene	U		0.0345	0.100	1	03/15/2022 17:20	WG1829324
p-Isopropyltoluene	U		0.0932	0.200	1	03/15/2022 17:20	WG1829324
2-Butanone (MEK)	U		0.500	1.00	1	03/15/2022 17:20	WG1829324
Methylene Chloride	U		0.265	1.00	1	03/15/2022 17:20	WG1829324
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/15/2022 17:20	WG1829324
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/15/2022 17:20	WG1829324
Naphthalene	U		0.124	0.500	1	03/15/2022 17:20	WG1829324
n-Propylbenzene	U		0.0472	0.200	1	03/15/2022 17:20	WG1829324
Styrene	U		0.109	0.500	1	03/15/2022 17:20	WG1829324
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/15/2022 17:20	WG1829324
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/15/2022 17:20	WG1829324
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/15/2022 17:20	WG1829324
Tetrachloroethene	134		0.700	2.50	25	03/16/2022 20:40	WG1832986
Toluene	0.0530	J	0.0500	0.200	1	03/15/2022 17:20	WG1829324
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/15/2022 17:20	WG1829324
1,2,4-Trichlorobenzene	U	C4	0.193	0.500	1	03/15/2022 17:20	WG1829324
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/15/2022 17:20	WG1829324

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/15/2022 17:20	WG1829324
Trichloroethene	290		0.400	1.00	25	03/16/2022 20:40	WG1832986
Trichlorofluoromethane	U		0.0200	0.100	1	03/15/2022 17:20	WG1829324
1,2,3-Trichloropropane	U		0.204	0.500	1	03/15/2022 17:20	WG1829324
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/15/2022 17:20	WG1829324
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/15/2022 17:20	WG1829324
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/15/2022 17:20	WG1829324
Vinyl chloride	2.22		0.0273	0.100	1	03/15/2022 17:20	WG1829324
Xylenes, Total	U		0.191	0.260	1	03/15/2022 17:20	WG1829324
Ethyl Ether	U		0.0170	0.100	1	03/15/2022 17:20	WG1829324
Tetrahydrofuran	U		0.0900	0.500	1	03/15/2022 17:20	WG1829324
Iodomethane	U		0.242	0.500	1	03/15/2022 17:20	WG1829324
Allyl chloride	U		0.580	1.00	1	03/15/2022 17:20	WG1829324
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/15/2022 17:20	WG1829324
(S) Toluene-d8	104			75.0-131		03/15/2022 17:20	WG1829324
(S) Toluene-d8	106			75.0-131		03/16/2022 20:40	WG1832986
(S) 4-Bromofluorobenzene	101			67.0-138		03/15/2022 17:20	WG1829324
(S) 4-Bromofluorobenzene	99.4			67.0-138		03/16/2022 20:40	WG1832986
(S) 1,2-Dichloroethane-d4	109			70.0-130		03/15/2022 17:20	WG1829324
(S) 1,2-Dichloroethane-d4	108			70.0-130		03/16/2022 20:40	WG1832986

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Cp

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Tc

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Gl

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Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	46400		594	5000	1	03/08/2022 03:34	WG1828516

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	9930		102	1000	1	03/08/2022 18:38	WG1829210

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	5600		28.1	100	1	03/11/2022 15:29	WG1829397
Manganese	3900		0.704	5.00	1	03/11/2022 15:29	WG1829397

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	2020		0.287	0.678	1	03/11/2022 11:40	WG1830865
Ethane	U		0.296	1.29	1	03/11/2022 11:40	WG1830865
Ethene	U		0.422	1.27	1	03/11/2022 11:40	WG1830865

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	4.28	J3	0.548	1.00	1	03/15/2022 14:43	WG1829324
Acrylonitrile	U		0.0760	0.500	1	03/15/2022 14:43	WG1829324
Benzene	0.231		0.0160	0.0400	1	03/15/2022 14:43	WG1829324
Bromobenzene	U		0.0420	0.500	1	03/15/2022 14:43	WG1829324
Bromodichloromethane	U		0.0315	0.100	1	03/15/2022 14:43	WG1829324
Bromoform	U	C3	0.239	1.00	1	03/15/2022 14:43	WG1829324
Bromomethane	U		0.148	0.500	1	03/15/2022 14:43	WG1829324
n-Butylbenzene	U		0.153	0.500	1	03/15/2022 14:43	WG1829324
sec-Butylbenzene	U		0.101	0.500	1	03/15/2022 14:43	WG1829324
tert-Butylbenzene	U		0.0620	0.200	1	03/15/2022 14:43	WG1829324
Carbon tetrachloride	U		0.0432	0.200	1	03/15/2022 14:43	WG1829324
Chlorobenzene	U		0.0229	0.100	1	03/15/2022 14:43	WG1829324
Chlorodibromomethane	U		0.0180	0.100	1	03/15/2022 14:43	WG1829324
Chloroethane	U		0.0432	0.200	1	03/15/2022 14:43	WG1829324
Chloroform	U		0.0166	0.100	1	03/15/2022 14:43	WG1829324
Chloromethane	U		0.0556	0.500	1	03/15/2022 14:43	WG1829324
2-Chlorotoluene	U		0.0368	0.100	1	03/15/2022 14:43	WG1829324
4-Chlorotoluene	U		0.0452	0.200	1	03/15/2022 14:43	WG1829324
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/15/2022 14:43	WG1829324
1,2-Dibromoethane	U		0.0210	0.100	1	03/15/2022 14:43	WG1829324
Dibromomethane	U		0.0400	0.200	1	03/15/2022 14:43	WG1829324
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/15/2022 14:43	WG1829324
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/15/2022 14:43	WG1829324
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/15/2022 14:43	WG1829324
Dichlorodifluoromethane	U		0.0327	0.100	1	03/15/2022 14:43	WG1829324
1,1-Dichloroethane	0.151		0.0230	0.100	1	03/15/2022 14:43	WG1829324
1,2-Dichloroethane	0.110		0.0190	0.100	1	03/15/2022 14:43	WG1829324
1,1-Dichloroethene	2.97		0.0200	0.100	1	03/15/2022 14:43	WG1829324
cis-1,2-Dichloroethene	583		0.690	2.50	25	03/16/2022 20:59	WG1832986
trans-1,2-Dichloroethene	4.04		0.0572	0.200	1	03/15/2022 14:43	WG1829324
1,2-Dichloropropane	U		0.0508	0.200	1	03/15/2022 14:43	WG1829324

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/15/2022 14:43	WG1829324
1,3-Dichloropropane	U		0.0700	0.200	1	03/15/2022 14:43	WG1829324
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/15/2022 14:43	WG1829324
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/15/2022 14:43	WG1829324
2,2-Dichloropropane	U		0.0317	0.100	1	03/15/2022 14:43	WG1829324
Di-isopropyl ether	U		0.0140	0.0400	1	03/15/2022 14:43	WG1829324
Ethylbenzene	U		0.0212	0.100	1	03/15/2022 14:43	WG1829324
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/15/2022 14:43	WG1829324
Isopropylbenzene	U		0.0345	0.100	1	03/15/2022 14:43	WG1829324
p-Isopropyltoluene	U		0.0932	0.200	1	03/15/2022 14:43	WG1829324
2-Butanone (MEK)	U		0.500	1.00	1	03/15/2022 14:43	WG1829324
Methylene Chloride	U		0.265	1.00	1	03/15/2022 14:43	WG1829324
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/15/2022 14:43	WG1829324
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/15/2022 14:43	WG1829324
Naphthalene	U		0.124	0.500	1	03/15/2022 14:43	WG1829324
n-Propylbenzene	U		0.0472	0.200	1	03/15/2022 14:43	WG1829324
Styrene	U		0.109	0.500	1	03/15/2022 14:43	WG1829324
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/15/2022 14:43	WG1829324
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/15/2022 14:43	WG1829324
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/15/2022 14:43	WG1829324
Tetrachloroethene	769		0.700	2.50	25	03/16/2022 20:59	WG1832986
Toluene	0.127	U	0.0500	0.200	1	03/15/2022 14:43	WG1829324
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/15/2022 14:43	WG1829324
1,2,4-Trichlorobenzene	U	C4	0.193	0.500	1	03/15/2022 14:43	WG1829324
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/15/2022 14:43	WG1829324
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/15/2022 14:43	WG1829324
Trichloroethene	277		0.400	1.00	25	03/16/2022 20:59	WG1832986
Trichlorofluoromethane	U		0.0200	0.100	1	03/15/2022 14:43	WG1829324
1,2,3-Trichloropropane	U		0.204	0.500	1	03/15/2022 14:43	WG1829324
1,2,4-Trimethylbenzene	0.0670	U	0.0464	0.200	1	03/15/2022 14:43	WG1829324
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/15/2022 14:43	WG1829324
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/15/2022 14:43	WG1829324
Vinyl chloride	0.637		0.0273	0.100	1	03/15/2022 14:43	WG1829324
Xylenes, Total	U		0.191	0.260	1	03/15/2022 14:43	WG1829324
Ethyl Ether	U		0.0170	0.100	1	03/15/2022 14:43	WG1829324
Tetrahydrofuran	1.58		0.0900	0.500	1	03/15/2022 14:43	WG1829324
Iodomethane	U		0.242	0.500	1	03/15/2022 14:43	WG1829324
Allyl chloride	U		0.580	1.00	1	03/15/2022 14:43	WG1829324
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/15/2022 14:43	WG1829324
(S) Toluene-d8	103			75.0-131		03/15/2022 14:43	WG1829324
(S) Toluene-d8	108			75.0-131		03/16/2022 20:59	WG1832986
(S) 4-Bromofluorobenzene	96.3			67.0-138		03/15/2022 14:43	WG1829324
(S) 4-Bromofluorobenzene	95.1			67.0-138		03/16/2022 20:59	WG1832986
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/15/2022 14:43	WG1829324
(S) 1,2-Dichloroethane-d4	105			70.0-130		03/16/2022 20:59	WG1832986

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	47700		594	5000	1	03/08/2022 03:47	WG1828516

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	9880		102	1000	1	03/08/2022 19:30	WG1829210

Metals (ICPMS) by Method 6020B

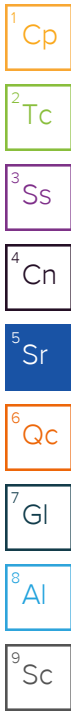
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	6190		28.1	100	1	03/11/2022 15:32	WG1829397
Manganese	4070		0.704	5.00	1	03/11/2022 15:32	WG1829397

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	3060		0.287	0.678	1	03/11/2022 11:53	WG1830865
Ethane	16.7		0.296	1.29	1	03/11/2022 11:53	WG1830865
Ethene	U		0.422	1.27	1	03/11/2022 11:53	WG1830865

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	11.8	J3	5.48	10.0	10	03/15/2022 17:39	WG1829324
Acrylonitrile	U		0.760	5.00	10	03/15/2022 17:39	WG1829324
Benzene	0.450		0.160	0.400	10	03/15/2022 17:39	WG1829324
Bromobenzene	U		0.420	5.00	10	03/15/2022 17:39	WG1829324
Bromodichloromethane	U		0.315	1.00	10	03/15/2022 17:39	WG1829324
Bromoform	U	C3	2.39	10.0	10	03/15/2022 17:39	WG1829324
Bromomethane	U		1.48	5.00	10	03/15/2022 17:39	WG1829324
n-Butylbenzene	U		1.53	5.00	10	03/15/2022 17:39	WG1829324
sec-Butylbenzene	U		1.01	5.00	10	03/15/2022 17:39	WG1829324
tert-Butylbenzene	U		0.620	2.00	10	03/15/2022 17:39	WG1829324
Carbon tetrachloride	U		0.432	2.00	10	03/15/2022 17:39	WG1829324
Chlorobenzene	U		0.229	1.00	10	03/15/2022 17:39	WG1829324
Chlorodibromomethane	U		0.180	1.00	10	03/15/2022 17:39	WG1829324
Chloroethane	U		0.432	2.00	10	03/15/2022 17:39	WG1829324
Chloroform	U		0.166	1.00	10	03/15/2022 17:39	WG1829324
Chloromethane	U		0.556	5.00	10	03/15/2022 17:39	WG1829324
2-Chlorotoluene	U		0.368	1.00	10	03/15/2022 17:39	WG1829324
4-Chlorotoluene	U		0.452	2.00	10	03/15/2022 17:39	WG1829324
1,2-Dibromo-3-Chloropropane	U		2.04	10.0	10	03/15/2022 17:39	WG1829324
1,2-Dibromoethane	U		0.210	1.00	10	03/15/2022 17:39	WG1829324
Dibromomethane	U		0.400	2.00	10	03/15/2022 17:39	WG1829324
1,2-Dichlorobenzene	U		0.580	2.00	10	03/15/2022 17:39	WG1829324
1,3-Dichlorobenzene	U		0.680	2.00	10	03/15/2022 17:39	WG1829324
1,4-Dichlorobenzene	U		0.788	2.00	10	03/15/2022 17:39	WG1829324
Dichlorodifluoromethane	U		0.327	1.00	10	03/15/2022 17:39	WG1829324
1,1-Dichloroethane	U		0.230	1.00	10	03/15/2022 17:39	WG1829324
1,2-Dichloroethane	U		0.190	1.00	10	03/15/2022 17:39	WG1829324
1,1-Dichloroethene	1.94		0.200	1.00	10	03/15/2022 17:39	WG1829324
cis-1,2-Dichloroethene	568		0.276	1.00	10	03/15/2022 17:39	WG1829324
trans-1,2-Dichloroethene	4.95		0.572	2.00	10	03/15/2022 17:39	WG1829324
1,2-Dichloropropane	U		0.508	2.00	10	03/15/2022 17:39	WG1829324



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.280	1.00	10	03/15/2022 17:39	WG1829324
1,3-Dichloropropane	U		0.700	2.00	10	03/15/2022 17:39	WG1829324
cis-1,3-Dichloropropene	U		0.271	1.00	10	03/15/2022 17:39	WG1829324
trans-1,3-Dichloropropene	U		0.612	2.00	10	03/15/2022 17:39	WG1829324
2,2-Dichloropropane	U		0.317	1.00	10	03/15/2022 17:39	WG1829324
Di-isopropyl ether	U		0.140	0.400	10	03/15/2022 17:39	WG1829324
Ethylbenzene	U		0.212	1.00	10	03/15/2022 17:39	WG1829324
Hexachloro-1,3-butadiene	U		5.08	10.0	10	03/15/2022 17:39	WG1829324
Isopropylbenzene	U		0.345	1.00	10	03/15/2022 17:39	WG1829324
p-Isopropyltoluene	U		0.932	2.00	10	03/15/2022 17:39	WG1829324
2-Butanone (MEK)	U		5.00	10.0	10	03/15/2022 17:39	WG1829324
Methylene Chloride	U		2.65	10.0	10	03/15/2022 17:39	WG1829324
4-Methyl-2-pentanone (MIBK)	U		4.00	10.0	10	03/15/2022 17:39	WG1829324
Methyl tert-butyl ether	U		0.118	0.400	10	03/15/2022 17:39	WG1829324
Naphthalene	U		1.24	5.00	10	03/15/2022 17:39	WG1829324
n-Propylbenzene	U		0.472	2.00	10	03/15/2022 17:39	WG1829324
Styrene	U		1.09	5.00	10	03/15/2022 17:39	WG1829324
1,1,1,2-Tetrachloroethane	U		0.200	1.00	10	03/15/2022 17:39	WG1829324
1,1,2,2-Tetrachloroethane	U		0.156	1.00	10	03/15/2022 17:39	WG1829324
1,1,2-Trichlorotrifluoroethane	U		0.270	1.00	10	03/15/2022 17:39	WG1829324
Tetrachloroethene	516		0.280	1.00	10	03/15/2022 17:39	WG1829324
Toluene	U		0.500	2.00	10	03/15/2022 17:39	WG1829324
1,2,3-Trichlorobenzene	U	C4	0.250	5.00	10	03/15/2022 17:39	WG1829324
1,2,4-Trichlorobenzene	U	C4	1.93	5.00	10	03/15/2022 17:39	WG1829324
1,1,1-Trichloroethane	U		0.110	1.00	10	03/15/2022 17:39	WG1829324
1,1,2-Trichloroethane	U		0.353	1.00	10	03/15/2022 17:39	WG1829324
Trichloroethene	220		0.160	0.400	10	03/15/2022 17:39	WG1829324
Trichlorofluoromethane	U		0.200	1.00	10	03/15/2022 17:39	WG1829324
1,2,3-Trichloropropane	U		2.04	5.00	10	03/15/2022 17:39	WG1829324
1,2,4-Trimethylbenzene	U		0.464	2.00	10	03/15/2022 17:39	WG1829324
1,2,3-Trimethylbenzene	U		0.460	2.00	10	03/15/2022 17:39	WG1829324
1,3,5-Trimethylbenzene	U		0.432	2.00	10	03/15/2022 17:39	WG1829324
Vinyl chloride	U		0.273	1.00	10	03/15/2022 17:39	WG1829324
Xylenes, Total	U		1.91	2.60	10	03/15/2022 17:39	WG1829324
Ethyl Ether	U		0.170	1.00	10	03/15/2022 17:39	WG1829324
Tetrahydrofuran	U		0.900	5.00	10	03/15/2022 17:39	WG1829324
Iodomethane	U		2.42	5.00	10	03/15/2022 17:39	WG1829324
Allyl chloride	U		5.80	10.0	10	03/15/2022 17:39	WG1829324
Trans-1,4-Dichloro-2-butene	U	C3	0.560	2.00	10	03/15/2022 17:39	WG1829324
(S) Toluene-d8	102			75.0-131		03/15/2022 17:39	WG1829324
(S) 4-Bromofluorobenzene	98.6			67.0-138		03/15/2022 17:39	WG1829324
(S) 1,2-Dichloroethane-d4	105			70.0-130		03/15/2022 17:39	WG1829324

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	1910	J	594	5000	1	03/08/2022 04:01	WG1828516

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4260	B	102	1000	1	03/08/2022 19:45	WG1829210

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	10200		28.1	100	1	03/11/2022 15:36	WG1829397
Manganese	3500		0.704	5.00	1	03/11/2022 15:36	WG1829397

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	4030		0.287	0.678	1	03/11/2022 11:59	WG1830865
Ethane	6.63		0.296	1.29	1	03/11/2022 11:59	WG1830865
Ethene	U		0.422	1.27	1	03/11/2022 11:59	WG1830865

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.38	J3	0.548	1.00	1	03/15/2022 15:02	WG1829324
Acrylonitrile	U		0.0760	0.500	1	03/15/2022 15:02	WG1829324
Benzene	0.0330	J	0.0160	0.0400	1	03/15/2022 15:02	WG1829324
Bromobenzene	U		0.0420	0.500	1	03/15/2022 15:02	WG1829324
Bromodichloromethane	U		0.0315	0.100	1	03/15/2022 15:02	WG1829324
Bromoform	U	C3	0.239	1.00	1	03/15/2022 15:02	WG1829324
Bromomethane	U		0.148	0.500	1	03/15/2022 15:02	WG1829324
n-Butylbenzene	U		0.153	0.500	1	03/15/2022 15:02	WG1829324
sec-Butylbenzene	U		0.101	0.500	1	03/15/2022 15:02	WG1829324
tert-Butylbenzene	U		0.0620	0.200	1	03/15/2022 15:02	WG1829324
Carbon tetrachloride	U		0.0432	0.200	1	03/15/2022 15:02	WG1829324
Chlorobenzene	U		0.0229	0.100	1	03/15/2022 15:02	WG1829324
Chlorodibromomethane	U		0.0180	0.100	1	03/15/2022 15:02	WG1829324
Chloroethane	U		0.0432	0.200	1	03/15/2022 15:02	WG1829324
Chloroform	U		0.0166	0.100	1	03/15/2022 15:02	WG1829324
Chloromethane	U		0.0556	0.500	1	03/15/2022 15:02	WG1829324
2-Chlorotoluene	U		0.0368	0.100	1	03/15/2022 15:02	WG1829324
4-Chlorotoluene	U		0.0452	0.200	1	03/15/2022 15:02	WG1829324
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/15/2022 15:02	WG1829324
1,2-Dibromoethane	U		0.0210	0.100	1	03/15/2022 15:02	WG1829324
Dibromomethane	U		0.0400	0.200	1	03/15/2022 15:02	WG1829324
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/15/2022 15:02	WG1829324
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/15/2022 15:02	WG1829324
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/15/2022 15:02	WG1829324
Dichlorodifluoromethane	U		0.0327	0.100	1	03/15/2022 15:02	WG1829324
1,1-Dichloroethane	U		0.0230	0.100	1	03/15/2022 15:02	WG1829324
1,2-Dichloroethane	U		0.0190	0.100	1	03/15/2022 15:02	WG1829324
1,1-Dichloroethene	U		0.0200	0.100	1	03/15/2022 15:02	WG1829324
cis-1,2-Dichloroethene	0.175		0.0276	0.100	1	03/17/2022 00:17	WG1832986
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/15/2022 15:02	WG1829324
1,2-Dichloropropane	U		0.0508	0.200	1	03/15/2022 15:02	WG1829324

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/15/2022 15:02	WG1829324
1,3-Dichloropropane	U		0.0700	0.200	1	03/15/2022 15:02	WG1829324
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/15/2022 15:02	WG1829324
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/15/2022 15:02	WG1829324
2,2-Dichloropropane	U		0.0317	0.100	1	03/15/2022 15:02	WG1829324
Di-isopropyl ether	U		0.0140	0.0400	1	03/15/2022 15:02	WG1829324
Ethylbenzene	U		0.0212	0.100	1	03/15/2022 15:02	WG1829324
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/15/2022 15:02	WG1829324
Isopropylbenzene	U		0.0345	0.100	1	03/15/2022 15:02	WG1829324
p-Isopropyltoluene	U		0.0932	0.200	1	03/15/2022 15:02	WG1829324
2-Butanone (MEK)	U		0.500	1.00	1	03/15/2022 15:02	WG1829324
Methylene Chloride	U		0.265	1.00	1	03/15/2022 15:02	WG1829324
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/15/2022 15:02	WG1829324
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/15/2022 15:02	WG1829324
Naphthalene	U		0.124	0.500	1	03/15/2022 15:02	WG1829324
n-Propylbenzene	U		0.0472	0.200	1	03/15/2022 15:02	WG1829324
Styrene	U		0.109	0.500	1	03/15/2022 15:02	WG1829324
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/15/2022 15:02	WG1829324
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/15/2022 15:02	WG1829324
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/15/2022 15:02	WG1829324
Tetrachloroethene	U		0.0280	0.100	1	03/17/2022 00:17	WG1832986
Toluene	U		0.0500	0.200	1	03/15/2022 15:02	WG1829324
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/15/2022 15:02	WG1829324
1,2,4-Trichlorobenzene	U	C4	0.193	0.500	1	03/15/2022 15:02	WG1829324
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/15/2022 15:02	WG1829324
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/15/2022 15:02	WG1829324
Trichloroethene	U		0.0160	0.0400	1	03/17/2022 00:17	WG1832986
Trichlorofluoromethane	U		0.0200	0.100	1	03/15/2022 15:02	WG1829324
1,2,3-Trichloropropane	U		0.204	0.500	1	03/15/2022 15:02	WG1829324
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/15/2022 15:02	WG1829324
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/15/2022 15:02	WG1829324
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/15/2022 15:02	WG1829324
Vinyl chloride	0.0720	U	0.0273	0.100	1	03/15/2022 15:02	WG1829324
Xylenes, Total	U		0.191	0.260	1	03/15/2022 15:02	WG1829324
Ethyl Ether	U		0.0170	0.100	1	03/15/2022 15:02	WG1829324
Tetrahydrofuran	U		0.0900	0.500	1	03/15/2022 15:02	WG1829324
Iodomethane	U		0.242	0.500	1	03/15/2022 15:02	WG1829324
Allyl chloride	U		0.580	1.00	1	03/15/2022 15:02	WG1829324
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/15/2022 15:02	WG1829324
(S) Toluene-d8	103			75.0-131		03/15/2022 15:02	WG1829324
(S) Toluene-d8	109			75.0-131		03/17/2022 00:17	WG1832986
(S) 4-Bromofluorobenzene	97.2			67.0-138		03/15/2022 15:02	WG1829324
(S) 4-Bromofluorobenzene	99.8			67.0-138		03/17/2022 00:17	WG1832986
(S) 1,2-Dichloroethane-d4	108			70.0-130		03/15/2022 15:02	WG1829324
(S) 1,2-Dichloroethane-d4	103			70.0-130		03/17/2022 00:17	WG1832986

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.68	J3	0.548	1.00	1	03/15/2022 15:21	WG1829324
Acrylonitrile	U		0.0760	0.500	1	03/15/2022 15:21	WG1829324
Benzene	0.0350	J	0.0160	0.0400	1	03/15/2022 15:21	WG1829324
Bromobenzene	U		0.0420	0.500	1	03/15/2022 15:21	WG1829324
Bromodichloromethane	U		0.0315	0.100	1	03/15/2022 15:21	WG1829324
Bromoform	U	C3	0.239	1.00	1	03/15/2022 15:21	WG1829324
Bromomethane	U		0.148	0.500	1	03/15/2022 15:21	WG1829324
n-Butylbenzene	U		0.153	0.500	1	03/15/2022 15:21	WG1829324
sec-Butylbenzene	U		0.101	0.500	1	03/15/2022 15:21	WG1829324
tert-Butylbenzene	U		0.0620	0.200	1	03/15/2022 15:21	WG1829324
Carbon tetrachloride	U		0.0432	0.200	1	03/15/2022 15:21	WG1829324
Chlorobenzene	U		0.0229	0.100	1	03/15/2022 15:21	WG1829324
Chlorodibromomethane	U		0.0180	0.100	1	03/15/2022 15:21	WG1829324
Chloroethane	U		0.0432	0.200	1	03/15/2022 15:21	WG1829324
Chloroform	U		0.0166	0.100	1	03/15/2022 15:21	WG1829324
Chloromethane	U		0.0556	0.500	1	03/15/2022 15:21	WG1829324
2-Chlorotoluene	U		0.0368	0.100	1	03/15/2022 15:21	WG1829324
4-Chlorotoluene	U		0.0452	0.200	1	03/15/2022 15:21	WG1829324
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/15/2022 15:21	WG1829324
1,2-Dibromoethane	U		0.0210	0.100	1	03/15/2022 15:21	WG1829324
Dibromomethane	U		0.0400	0.200	1	03/15/2022 15:21	WG1829324
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/15/2022 15:21	WG1829324
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/15/2022 15:21	WG1829324
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/15/2022 15:21	WG1829324
Dichlorodifluoromethane	U		0.0327	0.100	1	03/15/2022 15:21	WG1829324
1,1-Dichloroethane	U		0.0230	0.100	1	03/15/2022 15:21	WG1829324
1,2-Dichloroethane	U		0.0190	0.100	1	03/15/2022 15:21	WG1829324
1,1-Dichloroethene	U		0.0200	0.100	1	03/15/2022 15:21	WG1829324
cis-1,2-Dichloroethene	6.58		0.0276	0.100	1	03/15/2022 15:21	WG1829324
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/15/2022 15:21	WG1829324
1,2-Dichloropropane	U		0.0508	0.200	1	03/15/2022 15:21	WG1829324
1,1-Dichloropropene	U		0.0280	0.100	1	03/15/2022 15:21	WG1829324
1,3-Dichloropropane	U		0.0700	0.200	1	03/15/2022 15:21	WG1829324
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/15/2022 15:21	WG1829324
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/15/2022 15:21	WG1829324
2,2-Dichloropropane	U		0.0317	0.100	1	03/15/2022 15:21	WG1829324
Di-isopropyl ether	0.116		0.0140	0.0400	1	03/15/2022 15:21	WG1829324
Ethylbenzene	U		0.0212	0.100	1	03/15/2022 15:21	WG1829324
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/15/2022 15:21	WG1829324
Isopropylbenzene	U		0.0345	0.100	1	03/15/2022 15:21	WG1829324
p-Isopropyltoluene	U		0.0932	0.200	1	03/15/2022 15:21	WG1829324
2-Butanone (MEK)	U		0.500	1.00	1	03/15/2022 15:21	WG1829324
Methylene Chloride	U		0.265	1.00	1	03/15/2022 15:21	WG1829324
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/15/2022 15:21	WG1829324
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/15/2022 15:21	WG1829324
Naphthalene	U		0.124	0.500	1	03/15/2022 15:21	WG1829324
n-Propylbenzene	U		0.0472	0.200	1	03/15/2022 15:21	WG1829324
Styrene	U		0.109	0.500	1	03/15/2022 15:21	WG1829324
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/15/2022 15:21	WG1829324
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/15/2022 15:21	WG1829324
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/15/2022 15:21	WG1829324
Tetrachloroethene	U		0.0280	0.100	1	03/16/2022 19:43	WG1832986
Toluene	U		0.0500	0.200	1	03/15/2022 15:21	WG1829324
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/15/2022 15:21	WG1829324
1,2,4-Trichlorobenzene	U	C4	0.193	0.500	1	03/15/2022 15:21	WG1829324
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/15/2022 15:21	WG1829324

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/15/2022 15:21	WG1829324
Trichloroethene	U		0.0160	0.0400	1	03/15/2022 15:21	WG1829324
Trichlorofluoromethane	U		0.0200	0.100	1	03/15/2022 15:21	WG1829324
1,2,3-Trichloropropane	U		0.204	0.500	1	03/15/2022 15:21	WG1829324
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/15/2022 15:21	WG1829324
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/15/2022 15:21	WG1829324
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/15/2022 15:21	WG1829324
Vinyl chloride	0.0910	<u>J</u>	0.0273	0.100	1	03/15/2022 15:21	WG1829324
Xylenes, Total	U		0.191	0.260	1	03/15/2022 15:21	WG1829324
Ethyl Ether	U		0.0170	0.100	1	03/15/2022 15:21	WG1829324
Tetrahydrofuran	U		0.0900	0.500	1	03/15/2022 15:21	WG1829324
Iodomethane	U		0.242	0.500	1	03/15/2022 15:21	WG1829324
Allyl chloride	U		0.580	1.00	1	03/15/2022 15:21	WG1829324
Trans-1,4-Dichloro-2-butene	U	<u>C3</u>	0.0560	0.200	1	03/15/2022 15:21	WG1829324
(S) Toluene-d8	103			75.0-131		03/15/2022 15:21	WG1829324
(S) Toluene-d8	107			75.0-131		03/16/2022 19:43	WG1832986
(S) 4-Bromofluorobenzene	97.9			67.0-138		03/15/2022 15:21	WG1829324
(S) 4-Bromofluorobenzene	101			67.0-138		03/16/2022 19:43	WG1832986
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/15/2022 15:21	WG1829324
(S) 1,2-Dichloroethane-d4	105			70.0-130		03/16/2022 19:43	WG1832986

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	15900		594	5000	1	03/08/2022 04:14	WG1828516

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2800	<u>B</u>	102	1000	1	03/08/2022 19:59	WG1829210

Metals (ICPMS) by Method 6020B

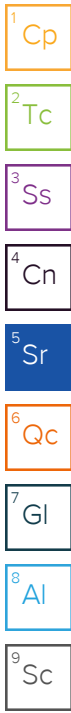
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	10100		28.1	100	1	03/11/2022 15:39	WG1829397
Manganese	474		0.704	5.00	1	03/11/2022 15:39	WG1829397

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	243		0.287	0.678	1	03/11/2022 12:05	WG1830865
Ethane	0.580	<u>J</u>	0.296	1.29	1	03/11/2022 12:05	WG1830865
Ethene	0.466	<u>J</u>	0.422	1.27	1	03/11/2022 12:05	WG1830865

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.42	<u>J3</u>	0.548	1.00	1	03/15/2022 15:40	WG1829324
Acrylonitrile	U		0.0760	0.500	1	03/15/2022 15:40	WG1829324
Benzene	0.0260	<u>J</u>	0.0160	0.0400	1	03/15/2022 15:40	WG1829324
Bromobenzene	U		0.0420	0.500	1	03/15/2022 15:40	WG1829324
Bromodichloromethane	U		0.0315	0.100	1	03/15/2022 15:40	WG1829324
Bromoform	U	<u>C3</u>	0.239	1.00	1	03/15/2022 15:40	WG1829324
Bromomethane	U		0.148	0.500	1	03/15/2022 15:40	WG1829324
n-Butylbenzene	U		0.153	0.500	1	03/15/2022 15:40	WG1829324
sec-Butylbenzene	U		0.101	0.500	1	03/15/2022 15:40	WG1829324
tert-Butylbenzene	U		0.0620	0.200	1	03/15/2022 15:40	WG1829324
Carbon tetrachloride	U		0.0432	0.200	1	03/15/2022 15:40	WG1829324
Chlorobenzene	U		0.0229	0.100	1	03/15/2022 15:40	WG1829324
Chlorodibromomethane	U		0.0180	0.100	1	03/15/2022 15:40	WG1829324
Chloroethane	U		0.0432	0.200	1	03/15/2022 15:40	WG1829324
Chloroform	U		0.0166	0.100	1	03/15/2022 15:40	WG1829324
Chloromethane	U		0.0556	0.500	1	03/15/2022 15:40	WG1829324
2-Chlorotoluene	U		0.0368	0.100	1	03/15/2022 15:40	WG1829324
4-Chlorotoluene	U		0.0452	0.200	1	03/15/2022 15:40	WG1829324
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/15/2022 15:40	WG1829324
1,2-Dibromoethane	U		0.0210	0.100	1	03/15/2022 15:40	WG1829324
Dibromomethane	U		0.0400	0.200	1	03/15/2022 15:40	WG1829324
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/15/2022 15:40	WG1829324
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/15/2022 15:40	WG1829324
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/15/2022 15:40	WG1829324
Dichlorodifluoromethane	U		0.0327	0.100	1	03/15/2022 15:40	WG1829324
1,1-Dichloroethane	U		0.0230	0.100	1	03/15/2022 15:40	WG1829324
1,2-Dichloroethane	U		0.0190	0.100	1	03/15/2022 15:40	WG1829324
1,1-Dichloroethene	U		0.0200	0.100	1	03/15/2022 15:40	WG1829324
cis-1,2-Dichloroethene	0.0520	<u>J</u>	0.0276	0.100	1	03/15/2022 15:40	WG1829324
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/15/2022 15:40	WG1829324
1,2-Dichloropropane	U		0.0508	0.200	1	03/15/2022 15:40	WG1829324



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/15/2022 15:40	WG1829324
1,3-Dichloropropane	U		0.0700	0.200	1	03/15/2022 15:40	WG1829324
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/15/2022 15:40	WG1829324
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/15/2022 15:40	WG1829324
2,2-Dichloropropane	U		0.0317	0.100	1	03/15/2022 15:40	WG1829324
Di-isopropyl ether	U		0.0140	0.0400	1	03/15/2022 15:40	WG1829324
Ethylbenzene	U		0.0212	0.100	1	03/15/2022 15:40	WG1829324
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/15/2022 15:40	WG1829324
Isopropylbenzene	U		0.0345	0.100	1	03/15/2022 15:40	WG1829324
p-Isopropyltoluene	U		0.0932	0.200	1	03/15/2022 15:40	WG1829324
2-Butanone (MEK)	U		0.500	1.00	1	03/15/2022 15:40	WG1829324
Methylene Chloride	U		0.265	1.00	1	03/15/2022 15:40	WG1829324
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/15/2022 15:40	WG1829324
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/15/2022 15:40	WG1829324
Naphthalene	U		0.124	0.500	1	03/15/2022 15:40	WG1829324
n-Propylbenzene	U		0.0472	0.200	1	03/15/2022 15:40	WG1829324
Styrene	U		0.109	0.500	1	03/15/2022 15:40	WG1829324
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/15/2022 15:40	WG1829324
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/15/2022 15:40	WG1829324
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/15/2022 15:40	WG1829324
Tetrachloroethene	U		0.0280	0.100	1	03/16/2022 20:02	WG1832986
Toluene	U		0.0500	0.200	1	03/15/2022 15:40	WG1829324
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/15/2022 15:40	WG1829324
1,2,4-Trichlorobenzene	U	C4	0.193	0.500	1	03/15/2022 15:40	WG1829324
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/15/2022 15:40	WG1829324
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/15/2022 15:40	WG1829324
Trichloroethene	0.0940		0.0160	0.0400	1	03/15/2022 15:40	WG1829324
Trichlorofluoromethane	U		0.0200	0.100	1	03/15/2022 15:40	WG1829324
1,2,3-Trichloropropane	U		0.204	0.500	1	03/15/2022 15:40	WG1829324
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/15/2022 15:40	WG1829324
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/15/2022 15:40	WG1829324
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/15/2022 15:40	WG1829324
Vinyl chloride	0.273		0.0273	0.100	1	03/15/2022 15:40	WG1829324
Xylenes, Total	U		0.191	0.260	1	03/15/2022 15:40	WG1829324
Ethyl Ether	U		0.0170	0.100	1	03/15/2022 15:40	WG1829324
Tetrahydrofuran	U		0.0900	0.500	1	03/15/2022 15:40	WG1829324
Iodomethane	U		0.242	0.500	1	03/15/2022 15:40	WG1829324
Allyl chloride	U		0.580	1.00	1	03/15/2022 15:40	WG1829324
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/15/2022 15:40	WG1829324
(S) Toluene-d8	101			75.0-131		03/15/2022 15:40	WG1829324
(S) Toluene-d8	109			75.0-131		03/16/2022 20:02	WG1832986
(S) 4-Bromofluorobenzene	96.9			67.0-138		03/15/2022 15:40	WG1829324
(S) 4-Bromofluorobenzene	101			67.0-138		03/16/2022 20:02	WG1832986
(S) 1,2-Dichloroethane-d4	109			70.0-130		03/15/2022 15:40	WG1829324
(S) 1,2-Dichloroethane-d4	106			70.0-130		03/16/2022 20:02	WG1832986

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	49600		594	5000	1	03/08/2022 04:28	WG1828516

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	10400		102	1000	1	03/08/2022 20:14	WG1829210

Metals (ICPMS) by Method 6020B

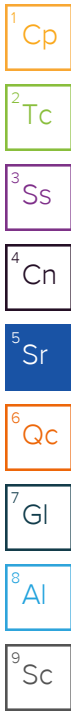
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	6770		28.1	100	1	03/11/2022 15:49	WG1829397
Manganese	2000		0.704	5.00	1	03/11/2022 15:49	WG1829397

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	3090		0.287	0.678	1	03/11/2022 12:08	WG1830865
Ethane	8.78		0.296	1.29	1	03/11/2022 12:08	WG1830865
Ethene	33.7		0.422	1.27	1	03/11/2022 12:08	WG1830865

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.32	J3	0.548	1.00	1	03/15/2022 15:59	WG1829324
Acrylonitrile	U		0.0760	0.500	1	03/15/2022 15:59	WG1829324
Benzene	U		0.0160	0.0400	1	03/15/2022 15:59	WG1829324
Bromobenzene	U		0.0420	0.500	1	03/15/2022 15:59	WG1829324
Bromodichloromethane	U		0.0315	0.100	1	03/15/2022 15:59	WG1829324
Bromoform	U	C3	0.239	1.00	1	03/15/2022 15:59	WG1829324
Bromomethane	U		0.148	0.500	1	03/15/2022 15:59	WG1829324
n-Butylbenzene	U		0.153	0.500	1	03/15/2022 15:59	WG1829324
sec-Butylbenzene	U		0.101	0.500	1	03/15/2022 15:59	WG1829324
tert-Butylbenzene	U		0.0620	0.200	1	03/15/2022 15:59	WG1829324
Carbon tetrachloride	U		0.0432	0.200	1	03/15/2022 15:59	WG1829324
Chlorobenzene	U		0.0229	0.100	1	03/15/2022 15:59	WG1829324
Chlorodibromomethane	U		0.0180	0.100	1	03/15/2022 15:59	WG1829324
Chloroethane	4.10		0.0432	0.200	1	03/15/2022 15:59	WG1829324
Chloroform	U		0.0166	0.100	1	03/15/2022 15:59	WG1829324
Chloromethane	U		0.0556	0.500	1	03/15/2022 15:59	WG1829324
2-Chlorotoluene	U		0.0368	0.100	1	03/15/2022 15:59	WG1829324
4-Chlorotoluene	U		0.0452	0.200	1	03/15/2022 15:59	WG1829324
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/15/2022 15:59	WG1829324
1,2-Dibromoethane	U		0.0210	0.100	1	03/15/2022 15:59	WG1829324
Dibromomethane	U		0.0400	0.200	1	03/15/2022 15:59	WG1829324
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/15/2022 15:59	WG1829324
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/15/2022 15:59	WG1829324
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/15/2022 15:59	WG1829324
Dichlorodifluoromethane	U		0.0327	0.100	1	03/15/2022 15:59	WG1829324
1,1-Dichloroethane	U		0.0230	0.100	1	03/15/2022 15:59	WG1829324
1,2-Dichloroethane	U		0.0190	0.100	1	03/15/2022 15:59	WG1829324
1,1-Dichloroethene	U		0.0200	0.100	1	03/15/2022 15:59	WG1829324
cis-1,2-Dichloroethene	5.97		0.0276	0.100	1	03/15/2022 15:59	WG1829324
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/15/2022 15:59	WG1829324
1,2-Dichloropropane	U		0.0508	0.200	1	03/15/2022 15:59	WG1829324



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/15/2022 15:59	WG1829324
1,3-Dichloropropane	U		0.0700	0.200	1	03/15/2022 15:59	WG1829324
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/15/2022 15:59	WG1829324
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/15/2022 15:59	WG1829324
2,2-Dichloropropane	U		0.0317	0.100	1	03/15/2022 15:59	WG1829324
Di-isopropyl ether	U		0.0140	0.0400	1	03/15/2022 15:59	WG1829324
Ethylbenzene	U		0.0212	0.100	1	03/15/2022 15:59	WG1829324
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/15/2022 15:59	WG1829324
Isopropylbenzene	U		0.0345	0.100	1	03/15/2022 15:59	WG1829324
p-Isopropyltoluene	U		0.0932	0.200	1	03/15/2022 15:59	WG1829324
2-Butanone (MEK)	U		0.500	1.00	1	03/15/2022 15:59	WG1829324
Methylene Chloride	U		0.265	1.00	1	03/15/2022 15:59	WG1829324
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/15/2022 15:59	WG1829324
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/15/2022 15:59	WG1829324
Naphthalene	U		0.124	0.500	1	03/15/2022 15:59	WG1829324
n-Propylbenzene	U		0.0472	0.200	1	03/15/2022 15:59	WG1829324
Styrene	U		0.109	0.500	1	03/15/2022 15:59	WG1829324
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/15/2022 15:59	WG1829324
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/15/2022 15:59	WG1829324
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/15/2022 15:59	WG1829324
Tetrachloroethene	U		0.0280	0.100	1	03/16/2022 20:21	WG1832986
Toluene	U		0.0500	0.200	1	03/15/2022 15:59	WG1829324
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/15/2022 15:59	WG1829324
1,2,4-Trichlorobenzene	U	C4	0.193	0.500	1	03/15/2022 15:59	WG1829324
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/15/2022 15:59	WG1829324
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/15/2022 15:59	WG1829324
Trichloroethene	U		0.0160	0.0400	1	03/15/2022 15:59	WG1829324
Trichlorofluoromethane	U		0.0200	0.100	1	03/15/2022 15:59	WG1829324
1,2,3-Trichloropropane	U		0.204	0.500	1	03/15/2022 15:59	WG1829324
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/15/2022 15:59	WG1829324
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/15/2022 15:59	WG1829324
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/15/2022 15:59	WG1829324
Vinyl chloride	37.0		0.0273	0.100	1	03/15/2022 15:59	WG1829324
Xylenes, Total	U		0.191	0.260	1	03/15/2022 15:59	WG1829324
Ethyl Ether	U		0.0170	0.100	1	03/15/2022 15:59	WG1829324
Tetrahydrofuran	U		0.0900	0.500	1	03/15/2022 15:59	WG1829324
Iodomethane	U		0.242	0.500	1	03/15/2022 15:59	WG1829324
Allyl chloride	U		0.580	1.00	1	03/15/2022 15:59	WG1829324
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/15/2022 15:59	WG1829324
(S) Toluene-d8	103			75.0-131		03/15/2022 15:59	WG1829324
(S) Toluene-d8	106			75.0-131		03/16/2022 20:21	WG1832986
(S) 4-Bromofluorobenzene	97.7			67.0-138		03/15/2022 15:59	WG1829324
(S) 4-Bromofluorobenzene	98.8			67.0-138		03/16/2022 20:21	WG1832986
(S) 1,2-Dichloroethane-d4	111			70.0-130		03/15/2022 15:59	WG1829324
(S) 1,2-Dichloroethane-d4	106			70.0-130		03/16/2022 20:21	WG1832986

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	40900		594	5000	1	03/08/2022 04:41	WG1828516

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4820	<u>B</u>	102	1000	1	03/08/2022 20:28	WG1829210

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1690		28.1	100	1	03/11/2022 15:52	WG1829397
Manganese	871		0.704	5.00	1	03/11/2022 15:52	WG1829397

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	1530		0.287	0.678	1	03/11/2022 12:11	WG1830865
Ethane	1.34		0.296	1.29	1	03/11/2022 12:11	WG1830865
Ethene	18.6		0.422	1.27	1	03/11/2022 12:11	WG1830865

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.06	<u>J3</u>	0.548	1.00	1	03/15/2022 17:00	WG1829324
Acrylonitrile	U		0.0760	0.500	1	03/15/2022 17:00	WG1829324
Benzene	U		0.0160	0.0400	1	03/15/2022 17:00	WG1829324
Bromobenzene	U		0.0420	0.500	1	03/15/2022 17:00	WG1829324
Bromodichloromethane	U		0.0315	0.100	1	03/15/2022 17:00	WG1829324
Bromoform	U	<u>C3</u>	0.239	1.00	1	03/15/2022 17:00	WG1829324
Bromomethane	U		0.148	0.500	1	03/15/2022 17:00	WG1829324
n-Butylbenzene	U		0.153	0.500	1	03/15/2022 17:00	WG1829324
sec-Butylbenzene	U		0.101	0.500	1	03/15/2022 17:00	WG1829324
tert-Butylbenzene	U		0.0620	0.200	1	03/15/2022 17:00	WG1829324
Carbon tetrachloride	U		0.0432	0.200	1	03/15/2022 17:00	WG1829324
Chlorobenzene	U		0.0229	0.100	1	03/15/2022 17:00	WG1829324
Chlorodibromomethane	U		0.0180	0.100	1	03/15/2022 17:00	WG1829324
Chloroethane	U		0.0432	0.200	1	03/15/2022 17:00	WG1829324
Chloroform	U		0.0166	0.100	1	03/15/2022 17:00	WG1829324
Chloromethane	U		0.0556	0.500	1	03/15/2022 17:00	WG1829324
2-Chlorotoluene	U		0.0368	0.100	1	03/15/2022 17:00	WG1829324
4-Chlorotoluene	U		0.0452	0.200	1	03/15/2022 17:00	WG1829324
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/15/2022 17:00	WG1829324
1,2-Dibromoethane	U		0.0210	0.100	1	03/15/2022 17:00	WG1829324
Dibromomethane	U		0.0400	0.200	1	03/15/2022 17:00	WG1829324
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/15/2022 17:00	WG1829324
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/15/2022 17:00	WG1829324
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/15/2022 17:00	WG1829324
Dichlorodifluoromethane	U		0.0327	0.100	1	03/15/2022 17:00	WG1829324
1,1-Dichloroethane	U		0.0230	0.100	1	03/15/2022 17:00	WG1829324
1,2-Dichloroethane	U		0.0190	0.100	1	03/15/2022 17:00	WG1829324
1,1-Dichloroethene	0.111		0.0200	0.100	1	03/15/2022 17:00	WG1829324
cis-1,2-Dichloroethene	43.3		0.0276	0.100	1	03/15/2022 17:00	WG1829324
trans-1,2-Dichloroethene	0.0670	<u>J</u>	0.0572	0.200	1	03/15/2022 17:00	WG1829324
1,2-Dichloropropane	U		0.0508	0.200	1	03/15/2022 17:00	WG1829324

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/15/2022 17:00	WG1829324
1,3-Dichloropropane	U		0.0700	0.200	1	03/15/2022 17:00	WG1829324
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/15/2022 17:00	WG1829324
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/15/2022 17:00	WG1829324
2,2-Dichloropropane	U		0.0317	0.100	1	03/15/2022 17:00	WG1829324
Di-isopropyl ether	U		0.0140	0.0400	1	03/15/2022 17:00	WG1829324
Ethylbenzene	U		0.0212	0.100	1	03/15/2022 17:00	WG1829324
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/15/2022 17:00	WG1829324
Isopropylbenzene	U		0.0345	0.100	1	03/15/2022 17:00	WG1829324
p-Isopropyltoluene	U		0.0932	0.200	1	03/15/2022 17:00	WG1829324
2-Butanone (MEK)	U		0.500	1.00	1	03/15/2022 17:00	WG1829324
Methylene Chloride	U		0.265	1.00	1	03/15/2022 17:00	WG1829324
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/15/2022 17:00	WG1829324
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/15/2022 17:00	WG1829324
Naphthalene	U		0.124	0.500	1	03/15/2022 17:00	WG1829324
n-Propylbenzene	U		0.0472	0.200	1	03/15/2022 17:00	WG1829324
Styrene	U		0.109	0.500	1	03/15/2022 17:00	WG1829324
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/15/2022 17:00	WG1829324
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/15/2022 17:00	WG1829324
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/15/2022 17:00	WG1829324
Tetrachloroethene	U		0.0280	0.100	1	03/15/2022 17:00	WG1829324
Toluene	0.116	U	0.0500	0.200	1	03/15/2022 17:00	WG1829324
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/15/2022 17:00	WG1829324
1,2,4-Trichlorobenzene	U	C4	0.193	0.500	1	03/15/2022 17:00	WG1829324
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/15/2022 17:00	WG1829324
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/15/2022 17:00	WG1829324
Trichloroethene	U		0.0160	0.0400	1	03/15/2022 17:00	WG1829324
Trichlorofluoromethane	U		0.0200	0.100	1	03/15/2022 17:00	WG1829324
1,2,3-Trichloropropane	U		0.204	0.500	1	03/15/2022 17:00	WG1829324
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/15/2022 17:00	WG1829324
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/15/2022 17:00	WG1829324
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/15/2022 17:00	WG1829324
Vinyl chloride	74.3		0.0273	0.100	1	03/15/2022 17:00	WG1829324
Xylenes, Total	U		0.191	0.260	1	03/15/2022 17:00	WG1829324
Ethyl Ether	U		0.0170	0.100	1	03/15/2022 17:00	WG1829324
Tetrahydrofuran	U		0.0900	0.500	1	03/15/2022 17:00	WG1829324
Iodomethane	U		0.242	0.500	1	03/15/2022 17:00	WG1829324
Allyl chloride	U		0.580	1.00	1	03/15/2022 17:00	WG1829324
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/15/2022 17:00	WG1829324
(S) Toluene-d8	103			75.0-131		03/15/2022 17:00	WG1829324
(S) 4-Bromofluorobenzene	101			67.0-138		03/15/2022 17:00	WG1829324
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/15/2022 17:00	WG1829324

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	8370		594	5000	1	03/08/2022 16:50	WG1828519

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	513	B J	102	1000	1	03/08/2022 21:24	WG1829210

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	U		28.1	100	1	03/11/2022 15:56	WG1829397
Manganese	3.60	B J	0.704	5.00	1	03/11/2022 15:56	WG1829397

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	U		0.287	0.678	1	03/11/2022 12:17	WG1830865
Ethane	U		0.296	1.29	1	03/11/2022 12:17	WG1830865
Ethene	U		0.422	1.27	1	03/11/2022 12:17	WG1830865

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	3.74	J3	0.548	1.00	1	03/15/2022 13:26	WG1829324
Acrylonitrile	U		0.0760	0.500	1	03/15/2022 13:26	WG1829324
Benzene	U		0.0160	0.0400	1	03/15/2022 13:26	WG1829324
Bromobenzene	U		0.0420	0.500	1	03/15/2022 13:26	WG1829324
Bromodichloromethane	U		0.0315	0.100	1	03/15/2022 13:26	WG1829324
Bromoform	U	C3	0.239	1.00	1	03/15/2022 13:26	WG1829324
Bromomethane	U		0.148	0.500	1	03/15/2022 13:26	WG1829324
n-Butylbenzene	U		0.153	0.500	1	03/15/2022 13:26	WG1829324
sec-Butylbenzene	U		0.101	0.500	1	03/15/2022 13:26	WG1829324
tert-Butylbenzene	U		0.0620	0.200	1	03/15/2022 13:26	WG1829324
Carbon tetrachloride	U		0.0432	0.200	1	03/15/2022 13:26	WG1829324
Chlorobenzene	U		0.0229	0.100	1	03/15/2022 13:26	WG1829324
Chlorodibromomethane	U		0.0180	0.100	1	03/15/2022 13:26	WG1829324
Chloroethane	U		0.0432	0.200	1	03/15/2022 13:26	WG1829324
Chloroform	U		0.0166	0.100	1	03/15/2022 13:26	WG1829324
Chloromethane	U		0.0556	0.500	1	03/15/2022 13:26	WG1829324
2-Chlorotoluene	U		0.0368	0.100	1	03/15/2022 13:26	WG1829324
4-Chlorotoluene	U		0.0452	0.200	1	03/15/2022 13:26	WG1829324
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/15/2022 13:26	WG1829324
1,2-Dibromoethane	U		0.0210	0.100	1	03/15/2022 13:26	WG1829324
Dibromomethane	U		0.0400	0.200	1	03/15/2022 13:26	WG1829324
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/15/2022 13:26	WG1829324
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/15/2022 13:26	WG1829324
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/15/2022 13:26	WG1829324
Dichlorodifluoromethane	U		0.0327	0.100	1	03/15/2022 13:26	WG1829324
1,1-Dichloroethane	U		0.0230	0.100	1	03/15/2022 13:26	WG1829324
1,2-Dichloroethane	U		0.0190	0.100	1	03/15/2022 13:26	WG1829324
1,1-Dichloroethene	U		0.0200	0.100	1	03/15/2022 13:26	WG1829324
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/15/2022 13:26	WG1829324
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/15/2022 13:26	WG1829324
1,2-Dichloropropane	U		0.0508	0.200	1	03/15/2022 13:26	WG1829324

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/15/2022 13:26	WG1829324
1,3-Dichloropropane	U		0.0700	0.200	1	03/15/2022 13:26	WG1829324
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/15/2022 13:26	WG1829324
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/15/2022 13:26	WG1829324
2,2-Dichloropropane	U		0.0317	0.100	1	03/15/2022 13:26	WG1829324
Di-isopropyl ether	U		0.0140	0.0400	1	03/15/2022 13:26	WG1829324
Ethylbenzene	U		0.0212	0.100	1	03/15/2022 13:26	WG1829324
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/15/2022 13:26	WG1829324
Isopropylbenzene	U		0.0345	0.100	1	03/15/2022 13:26	WG1829324
p-Isopropyltoluene	U		0.0932	0.200	1	03/15/2022 13:26	WG1829324
2-Butanone (MEK)	U		0.500	1.00	1	03/15/2022 13:26	WG1829324
Methylene Chloride	U		0.265	1.00	1	03/15/2022 13:26	WG1829324
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/15/2022 13:26	WG1829324
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/15/2022 13:26	WG1829324
Naphthalene	U		0.124	0.500	1	03/15/2022 13:26	WG1829324
n-Propylbenzene	U		0.0472	0.200	1	03/15/2022 13:26	WG1829324
Styrene	U		0.109	0.500	1	03/15/2022 13:26	WG1829324
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/15/2022 13:26	WG1829324
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/15/2022 13:26	WG1829324
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/15/2022 13:26	WG1829324
Tetrachloroethene	U		0.0280	0.100	1	03/15/2022 13:26	WG1829324
Toluene	0.0810	U	0.0500	0.200	1	03/15/2022 13:26	WG1829324
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/15/2022 13:26	WG1829324
1,2,4-Trichlorobenzene	U	C4	0.193	0.500	1	03/15/2022 13:26	WG1829324
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/15/2022 13:26	WG1829324
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/15/2022 13:26	WG1829324
Trichloroethene	U		0.0160	0.0400	1	03/15/2022 13:26	WG1829324
Trichlorofluoromethane	U		0.0200	0.100	1	03/15/2022 13:26	WG1829324
1,2,3-Trichloropropane	U		0.204	0.500	1	03/15/2022 13:26	WG1829324
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/15/2022 13:26	WG1829324
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/15/2022 13:26	WG1829324
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/15/2022 13:26	WG1829324
Vinyl chloride	U		0.0273	0.100	1	03/15/2022 13:26	WG1829324
Xylenes, Total	U		0.191	0.260	1	03/15/2022 13:26	WG1829324
Ethyl Ether	U		0.0170	0.100	1	03/15/2022 13:26	WG1829324
Tetrahydrofuran	U		0.0900	0.500	1	03/15/2022 13:26	WG1829324
Iodomethane	U		0.242	0.500	1	03/15/2022 13:26	WG1829324
Allyl chloride	U		0.580	1.00	1	03/15/2022 13:26	WG1829324
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/15/2022 13:26	WG1829324
(S) Toluene-d8	100			75.0-131		03/15/2022 13:26	WG1829324
(S) 4-Bromofluorobenzene	101			67.0-138		03/15/2022 13:26	WG1829324
(S) 1,2-Dichloroethane-d4	109			70.0-130		03/15/2022 13:26	WG1829324

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	5.85	<u>J3</u>	0.548	1.00	1	03/15/2022 13:46	WG1829324
Acrylonitrile	U		0.0760	0.500	1	03/15/2022 13:46	WG1829324
Benzene	U		0.0160	0.0400	1	03/15/2022 13:46	WG1829324
Bromobenzene	U		0.0420	0.500	1	03/15/2022 13:46	WG1829324
Bromodichloromethane	U		0.0315	0.100	1	03/15/2022 13:46	WG1829324
Bromoform	U	<u>C3</u>	0.239	1.00	1	03/15/2022 13:46	WG1829324
Bromomethane	U		0.148	0.500	1	03/15/2022 13:46	WG1829324
n-Butylbenzene	U		0.153	0.500	1	03/15/2022 13:46	WG1829324
sec-Butylbenzene	U		0.101	0.500	1	03/15/2022 13:46	WG1829324
tert-Butylbenzene	U		0.0620	0.200	1	03/15/2022 13:46	WG1829324
Carbon tetrachloride	U		0.0432	0.200	1	03/15/2022 13:46	WG1829324
Chlorobenzene	U		0.0229	0.100	1	03/15/2022 13:46	WG1829324
Chlorodibromomethane	U		0.0180	0.100	1	03/15/2022 13:46	WG1829324
Chloroethane	U		0.0432	0.200	1	03/15/2022 13:46	WG1829324
Chloroform	U		0.0166	0.100	1	03/15/2022 13:46	WG1829324
Chloromethane	U		0.0556	0.500	1	03/15/2022 13:46	WG1829324
2-Chlorotoluene	U		0.0368	0.100	1	03/15/2022 13:46	WG1829324
4-Chlorotoluene	U		0.0452	0.200	1	03/15/2022 13:46	WG1829324
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/15/2022 13:46	WG1829324
1,2-Dibromoethane	U		0.0210	0.100	1	03/15/2022 13:46	WG1829324
Dibromomethane	U		0.0400	0.200	1	03/15/2022 13:46	WG1829324
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/15/2022 13:46	WG1829324
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/15/2022 13:46	WG1829324
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/15/2022 13:46	WG1829324
Dichlorodifluoromethane	U		0.0327	0.100	1	03/15/2022 13:46	WG1829324
1,1-Dichloroethane	U		0.0230	0.100	1	03/15/2022 13:46	WG1829324
1,2-Dichloroethane	U		0.0190	0.100	1	03/15/2022 13:46	WG1829324
1,1-Dichloroethene	U		0.0200	0.100	1	03/15/2022 13:46	WG1829324
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/15/2022 13:46	WG1829324
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/15/2022 13:46	WG1829324
1,2-Dichloropropane	U		0.0508	0.200	1	03/15/2022 13:46	WG1829324
1,1-Dichloropropene	U		0.0280	0.100	1	03/15/2022 13:46	WG1829324
1,3-Dichloropropane	U		0.0700	0.200	1	03/15/2022 13:46	WG1829324
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/15/2022 13:46	WG1829324
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/15/2022 13:46	WG1829324
2,2-Dichloropropane	U		0.0317	0.100	1	03/15/2022 13:46	WG1829324
Di-isopropyl ether	U		0.0140	0.0400	1	03/15/2022 13:46	WG1829324
Ethylbenzene	U		0.0212	0.100	1	03/15/2022 13:46	WG1829324
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/15/2022 13:46	WG1829324
Isopropylbenzene	U		0.0345	0.100	1	03/15/2022 13:46	WG1829324
p-Isopropyltoluene	U		0.0932	0.200	1	03/15/2022 13:46	WG1829324
2-Butanone (MEK)	U		0.500	1.00	1	03/15/2022 13:46	WG1829324
Methylene Chloride	U		0.265	1.00	1	03/15/2022 13:46	WG1829324
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/15/2022 13:46	WG1829324
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/15/2022 13:46	WG1829324
Naphthalene	U		0.124	0.500	1	03/15/2022 13:46	WG1829324
n-Propylbenzene	U		0.0472	0.200	1	03/15/2022 13:46	WG1829324
Styrene	U		0.109	0.500	1	03/15/2022 13:46	WG1829324
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/15/2022 13:46	WG1829324
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/15/2022 13:46	WG1829324
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/15/2022 13:46	WG1829324
Tetrachloroethene	U		0.0280	0.100	1	03/15/2022 13:46	WG1829324
Toluene	0.174	<u>J</u>	0.0500	0.200	1	03/15/2022 13:46	WG1829324
1,2,3-Trichlorobenzene	U	<u>C4</u>	0.0250	0.500	1	03/15/2022 13:46	WG1829324
1,2,4-Trichlorobenzene	U	<u>C4</u>	0.193	0.500	1	03/15/2022 13:46	WG1829324
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/15/2022 13:46	WG1829324

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/15/2022 13:46	WG1829324
Trichloroethene	U		0.0160	0.0400	1	03/15/2022 13:46	WG1829324
Trichlorofluoromethane	U		0.0200	0.100	1	03/15/2022 13:46	WG1829324
1,2,3-Trichloropropane	U		0.204	0.500	1	03/15/2022 13:46	WG1829324
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/15/2022 13:46	WG1829324
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/15/2022 13:46	WG1829324
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/15/2022 13:46	WG1829324
Vinyl chloride	U		0.0273	0.100	1	03/15/2022 13:46	WG1829324
Xylenes, Total	U		0.191	0.260	1	03/15/2022 13:46	WG1829324
Ethyl Ether	U		0.0170	0.100	1	03/15/2022 13:46	WG1829324
Tetrahydrofuran	U		0.0900	0.500	1	03/15/2022 13:46	WG1829324
Iodomethane	U		0.242	0.500	1	03/15/2022 13:46	WG1829324
Allyl chloride	U		0.580	1.00	1	03/15/2022 13:46	WG1829324
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	03/15/2022 13:46	WG1829324
(S) Toluene-d8	102			75.0-131		03/15/2022 13:46	WG1829324
(S) 4-Bromofluorobenzene	100			67.0-138		03/15/2022 13:46	WG1829324
(S) 1,2-Dichloroethane-d4	109			70.0-130		03/15/2022 13:46	WG1829324

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3767483-1 03/07/22 20:35

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Sulfate	U		594	5000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1467132-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1467132-01 03/07/22 22:35 • (DUP) R3767483-3 03/07/22 22:48

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	220000	220000	1	0.107	E	20

L1468403-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1468403-10 03/08/22 04:41 • (DUP) R3767483-6 03/08/22 04:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	40900	41600	1	1.62		20

Laboratory Control Sample (LCS)

(LCS) R3767483-2 03/07/22 20:48

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Sulfate	40000	39600	98.9	90.0-110	

L1467738-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1467738-01 03/08/22 00:51 • (MS) R3767483-4 03/08/22 01:04 • (MSD) R3767483-5 03/08/22 01:18

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Sulfate	50000	107000	154000	148000	93.9	81.8	1	80.0-120	E	E	4.01	20

L1468403-10 Original Sample (OS) • Matrix Spike (MS)

(OS) L1468403-10 03/08/22 04:41 • (MS) R3767483-7 03/08/22 05:09

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Sulfate	50000	40900	93200	105	1	80.0-120	

Method Blank (MB)

(MB) R3767725-1 03/08/22 09:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Sulfate	U		594	5000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1468118-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1468118-04 03/08/22 12:36 • (DUP) R3767725-3 03/08/22 12:51

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	27400	27300	1	0.0834		20

L1468406-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1468406-05 03/08/22 18:49 • (DUP) R3767725-6 03/08/22 19:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3767725-2 03/08/22 09:36

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Sulfate	40000	38500	96.3	90.0-110	

L1468118-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1468118-04 03/08/22 12:36 • (MS) R3767725-4 03/08/22 13:06 • (MSD) R3767725-5 03/08/22 13:20

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Sulfate	50000	27400	76400	76400	98.1	98.2	1	80.0-120			0.0196	20

L1468406-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1468406-05 03/08/22 18:49 • (MS) R3767725-7 03/08/22 19:19

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Sulfate	50000	U	49000	98.0	1	80.0-120	

Method Blank (MB)

(MB) R3767687-2 03/08/22 14:53

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	507	↓	102	1000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1468403-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1468403-10 03/08/22 20:28 • (DUP) R3767687-5 03/08/22 20:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	4820	4800	1	0.582		20

L1468403-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1468403-11 03/08/22 21:24 • (DUP) R3767687-6 03/08/22 21:36

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	513	624	1	19.5	↓	20

Laboratory Control Sample (LCS)

(LCS) R3767687-1 03/08/22 14:41

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	75000	100	85.0-115	

L1468403-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1468403-04 03/08/22 18:38 • (MS) R3767687-3 03/08/22 18:56 • (MSD) R3767687-4 03/08/22 19:14

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	9930	58800	58600	97.6	97.3	1	80.0-120			0.273	20

L1468686-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1468686-08 03/09/22 01:14 • (MS) R3767687-7 03/09/22 01:32 • (MSD) R3767687-8 03/09/22 01:49

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	3400	52600	52200	98.5	97.7	1	80.0-120			0.725	20

Method Blank (MB)

(MB) R3768901-1 03/11/22 14:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	46.1	U	28.1	100
Manganese	1.83	U	0.704	5.00

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS)

(LCS) R3768901-2 03/11/22 14:36

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	5000	4980	99.6	80.0-120	
Manganese	50.0	50.6	101	80.0-120	

4 Cn

5 Sr

6 Qc

L1468398-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1468398-18 03/11/22 14:40 • (MS) R3768901-4 03/11/22 14:46 • (MSD) R3768901-5 03/11/22 14:50

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	5000	445	5710	5560	105	102	1	75.0-125			2.52	20
Manganese	50.0	94.4	147	140	106	92.0	1	75.0-125			4.95	20

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3768875-2 03/11/22 10:35

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1468245-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1468245-03 03/11/22 11:33 • (DUP) R3768875-3 03/11/22 11:36

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	3890	4310	1	10.2		20
Ethane	5.80	5.37	1	7.70		20
Ethene	U	U	1	0.000		20

L1469499-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1469499-01 03/11/22 13:59 • (DUP) R3768875-4 03/11/22 14:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	U	U	1	0.000		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3768875-1 03/11/22 10:31 • (LCSD) R3768875-7 03/11/22 14:26

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	65.4	67.5	96.5	99.6	85.0-115			3.16	20
Ethane	129	123	122	95.3	94.6	85.0-115			0.816	20
Ethene	127	124	124	97.6	97.6	85.0-115			0.000	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1468174-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1468174-01 03/11/22 10:47 • (MS) R3768875-5 03/11/22 14:08 • (MSD) R3768875-6 03/11/22 14:14

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methane	67.8	10.3	87.4	87.8	114	114	1	85.0-115			0.457	20
Ethane	129	U	124	123	96.1	95.3	1	85.0-115			0.810	20
Ethene	127	U	125	125	98.4	98.4	1	85.0-115			0.000	20

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3770139-3 03/15/22 12:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00
Isopropylbenzene	U		0.0345	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3770139-3 03/15/22 12:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Ethyl ether	U		0.0170	0.100
Tetrahydrofuran	U		0.0900	0.500
Iodomethane	U		0.242	0.500
Allyl Chloride	U		0.580	1.00
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
(S) Toluene-d8	102			75.0-131
(S) 4-Bromofluorobenzene	97.2			67.0-138
(S) 1,2-Dichloroethane-d4	107			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3770139-1 03/15/22 11:23 • (LCSD) R3770139-2 03/15/22 11:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	29.3	20.8	117	83.2	10.0-160		J3	33.9	31
Acrylonitrile	25.0	20.5	18.9	82.0	75.6	45.0-153			8.12	22
Benzene	5.00	4.80	4.82	96.0	96.4	70.0-123			0.416	20
Bromobenzene	5.00	4.55	4.61	91.0	92.2	73.0-121			1.31	20
Bromodichloromethane	5.00	4.85	4.87	97.0	97.4	73.0-121			0.412	20
Bromoform	5.00	3.80	3.99	76.0	79.8	64.0-132			4.88	20
Bromomethane	5.00	4.70	4.60	94.0	92.0	56.0-147			2.15	20
n-Butylbenzene	5.00	4.81	5.19	96.2	104	68.0-135			7.60	20
sec-Butylbenzene	5.00	4.59	4.76	91.8	95.2	74.0-130			3.64	20
tert-Butylbenzene	5.00	4.42	4.54	88.4	90.8	75.0-127			2.68	20
Carbon tetrachloride	5.00	4.64	4.64	92.8	92.8	66.0-128			0.000	20
Chlorobenzene	5.00	4.64	4.62	92.8	92.4	76.0-128			0.432	20
Chlorodibromomethane	5.00	4.46	4.47	89.2	89.4	74.0-127			0.224	20
Chloroethane	5.00	4.90	5.10	98.0	102	61.0-134			4.00	20
Chloroform	5.00	4.86	4.89	97.2	97.8	72.0-123			0.615	20
Chloromethane	5.00	5.10	5.21	102	104	51.0-138			2.13	20
2-Chlorotoluene	5.00	4.58	4.77	91.6	95.4	75.0-124			4.06	20
4-Chlorotoluene	5.00	4.80	4.93	96.0	98.6	75.0-124			2.67	20
1,2-Dibromo-3-Chloropropane	5.00	4.36	4.35	87.2	87.0	59.0-130			0.230	20
1,2-Dibromoethane	5.00	4.53	4.59	90.6	91.8	74.0-128			1.32	20
Dibromomethane	5.00	5.08	4.99	102	99.8	75.0-122			1.79	20
1,2-Dichlorobenzene	5.00	5.06	5.08	101	102	76.0-124			0.394	20
1,3-Dichlorobenzene	5.00	4.91	5.06	98.2	101	76.0-125			3.01	20
1,4-Dichlorobenzene	5.00	4.72	4.80	94.4	96.0	77.0-121			1.68	20
Dichlorodifluoromethane	5.00	4.81	4.82	96.2	96.4	43.0-156			0.208	20
1,1-Dichloroethane	5.00	5.19	5.06	104	101	70.0-127			2.54	20
1,2-Dichloroethane	5.00	5.38	5.50	108	110	65.0-131			2.21	20
1,1-Dichloroethene	5.00	5.26	5.43	105	109	65.0-131			3.18	20
cis-1,2-Dichloroethene	5.00	4.60	4.58	92.0	91.6	73.0-125			0.436	20
trans-1,2-Dichloroethene	5.00	4.57	4.65	91.4	93.0	71.0-125			1.74	20
1,2-Dichloropropane	5.00	5.15	5.18	103	104	74.0-125			0.581	20
1,1-Dichloropropene	5.00	5.04	5.10	101	102	73.0-125			1.18	20
1,3-Dichloropropane	5.00	4.84	4.98	96.8	99.6	80.0-125			2.85	20
cis-1,3-Dichloropropene	5.00	5.35	5.43	107	109	76.0-127			1.48	20
trans-1,3-Dichloropropene	5.00	4.67	4.70	93.4	94.0	73.0-127			0.640	20
2,2-Dichloropropane	5.00	5.12	5.05	102	101	59.0-135			1.38	20
Di-isopropyl ether	5.00	5.30	5.24	106	105	60.0-136			1.14	20
Ethylbenzene	5.00	4.56	4.58	91.2	91.6	74.0-126			0.438	20
Hexachloro-1,3-butadiene	5.00	4.46	4.64	89.2	92.8	57.0-150			3.96	20
Isopropylbenzene	5.00	4.73	4.75	94.6	95.0	72.0-127			0.422	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3770139-1 03/15/22 11:23 • (LCSD) R3770139-2 03/15/22 11:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
p-Isopropyltoluene	5.00	4.61	4.85	92.2	97.0	72.0-133			5.07	20
2-Butanone (MEK)	25.0	26.9	27.1	108	108	30.0-160			0.741	24
Methylene Chloride	5.00	4.86	5.00	97.2	100	68.0-123			2.84	20
4-Methyl-2-pentanone (MIBK)	25.0	26.8	26.9	107	108	56.0-143			0.372	20
Methyl tert-butyl ether	5.00	4.90	4.97	98.0	99.4	66.0-132			1.42	20
Naphthalene	5.00	5.43	6.02	109	120	59.0-130			10.3	20
n-Propylbenzene	5.00	4.66	4.81	93.2	96.2	74.0-126			3.17	20
Styrene	5.00	4.38	4.38	87.6	87.6	72.0-127			0.000	20
1,1,1,2-Tetrachloroethane	5.00	4.70	4.71	94.0	94.2	74.0-129			0.213	20
1,1,2,2-Tetrachloroethane	5.00	4.88	4.94	97.6	98.8	68.0-128			1.22	20
1,1,2-Trichlorotrifluoroethane	5.00	4.90	4.89	98.0	97.8	61.0-139			0.204	20
Tetrachloroethene	5.00	4.50	4.53	90.0	90.6	70.0-136			0.664	20
Toluene	5.00	4.59	4.61	91.8	92.2	75.0-121			0.435	20
1,2,3-Trichlorobenzene	5.00	5.77	6.88	115	138	59.0-139			17.5	20
1,2,4-Trichlorobenzene	5.00	5.50	5.93	110	119	62.0-137			7.52	20
1,1,1-Trichloroethane	5.00	4.70	4.92	94.0	98.4	69.0-126			4.57	20
1,1,2-Trichloroethane	5.00	4.68	4.75	93.6	95.0	78.0-123			1.48	20
Trichloroethene	5.00	4.84	4.81	96.8	96.2	76.0-126			0.622	20
Trichlorofluoromethane	5.00	4.36	4.66	87.2	93.2	61.0-142			6.65	20
1,2,3-Trichloropropane	5.00	4.73	4.58	94.6	91.6	67.0-129			3.22	20
1,2,4-Trimethylbenzene	5.00	4.74	4.97	94.8	99.4	70.0-126			4.74	20
1,2,3-Trimethylbenzene	5.00	4.80	5.00	96.0	100	74.0-124			4.08	20
1,3,5-Trimethylbenzene	5.00	4.81	4.89	96.2	97.8	73.0-127			1.65	20
Vinyl chloride	5.00	4.83	4.84	96.6	96.8	63.0-134			0.207	20
Xylenes, Total	15.0	13.8	14.1	92.0	94.0	72.0-127			2.15	20
Ethyl ether	5.00	5.06	5.03	101	101	64.0-137			0.595	20
Tetrahydrofuran	5.00	4.52	3.71	90.4	74.2	37.0-146			19.7	24
Iodomethane	25.0	25.8	26.1	103	104	74.0-134			1.16	20
Allyl chloride	25.0	21.8	22.2	87.2	88.8	70.0-131			1.82	20
trans-1,4-Dichloro-2-butene	5.00	2.74	2.67	54.8	53.4	45.0-143			2.59	20
(S) Toluene-d8				100	101	75.0-131				
(S) 4-Bromofluorobenzene				102	101	67.0-138				
(S) 1,2-Dichloroethane-d4				109	104	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3770650-3 03/16/22 18:56

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Tetrachloroethene	U		0.0280	0.100
Trichloroethene	U		0.0160	0.0400
(S) Toluene-d8	108			75.0-131
(S) 4-Bromofluorobenzene	102			67.0-138
(S) 1,2-Dichloroethane-d4	108			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3770650-1 03/16/22 16:09 • (LCSD) R3770650-2 03/16/22 16:28

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
cis-1,2-Dichloroethene	5.00	4.95	4.95	99.0	99.0	73.0-125			0.000	20
Tetrachloroethene	5.00	5.49	5.90	110	118	70.0-136			7.20	20
Trichloroethene	5.00	5.44	5.48	109	110	76.0-126			0.733	20
(S) Toluene-d8				103	107	75.0-131				
(S) 4-Bromofluorobenzene				99.6	102	67.0-138				
(S) 1,2-Dichloroethane-d4				110	106	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

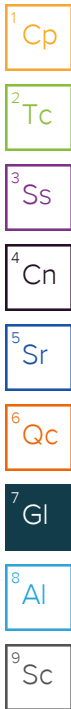
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C4	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Data is likely to show a low bias concerning the result.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address:
PES Environmental, Inc.- WA
 2101 Fourth Ave., Suite 1310
 Seattle, WA 98121

Billing Information:
 Attn: Accounts Payable
 2101 4th Avenue, Suite 1310
 Seattle, WA 98121

Pres
Chk

Report to:
Brian O'Neal/Bill Haldeman

Email To:
 Shannon.McKernan@nv5.com;brian.oneal@nv5

Project Description:
American Linen

City/State
 Collected: **Seattle, WA**

Please Circle:
 PT MT CT ET

Phone: **206-529-3980**

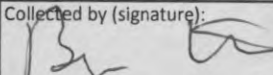
Client Project #

Lab Project #
PESENVSWA-ALP

Collected by (print):
Ben Hecht

Site/Facility ID #
1413.001.02.501.05

P.O. #
443018-1413001.05.601

Collected by (signature):

 Immediately
 Packed on Ice N Y

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #
 Date Results Needed
Standard TAT

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs
MW-326-030322	Grab	GW		3/3/22	940	3
MW-325-030322		GW			1045	3
MW-129-030322		GW			1220	3
MW-968-030322		GW			1310	8
MW-156-030322		GW			1450	8
MW-159-030322		GW			1550	8
FMW-137-030422		GW		3/4/22	615	3
MW-158A-030422		GW			840	8
MW-189-030422		GW			1115	8
MW-190-030422	✓	GW		✓	1315	8

Analysis / Container / Preservative							
ALK 125mlHDPE-NoPres	FEG, MNG 250mlHDPE-HNO3	FEG, MNG 250mlHDPE-HNO3	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	SULFATE 125mlHDPE-NoPres	TOC 250mlHDPE-HCl	V8260ULLC 40mlAmb-HCl

Chain of Custody Page 1 of 2

Pace
 PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 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>

SDG # **21468403**
G192

Acctnum: **PESENVSWA**
 Template: **T203400**
 Prelogin: **P903823**
 PM: **546 - Jared Starkey**
 PB: **AP 2-8-22**

Shipped Via:
 Remarks Sample # (lab only)

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:

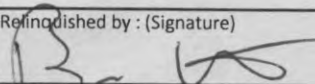
Samples returned via:
 UPS FedEx Courier

Tracking # **5528 5947 1465**

pH _____ Temp _____
 Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: NP Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 If Applicable
 VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature)


Date:
3/4/2022

Time:
1530

Received by: (Signature)

Trip Blank Received: Yes / No
 HCL / MeOH
 TBR

Relinquished by: (Signature)

Date:

Time:

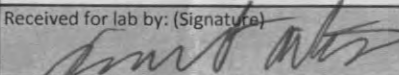
Received by: (Signature)

Temp: **MSATC**
2.6 to 2.6
 Bottles Received: **68**

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)



Date: **3/5/22**
 Time: **930**

If preservation required by Login: Date/Time

Hold:

Condition:
 NCF / OK

Company Name/Address: PES Environmental, Inc.- WA 2101 Fourth Ave., Suite 1310 Seattle, WA 98121		Billing Information: Attn: Accounts Payable 2101 4th Avenue, Suite 1310 Seattle, WA 98121		Pres Chk	Analysis / Container / Preservative							Chain of Custody Page <u>2</u> of <u>2</u>
--	--	---	--	-------------	-------------------------------------	--	--	--	--	--	--	--

Report to: Brian O'Neal/Bill Haldeman		Email To: Shannon.McKernan@nv5.com;brian.oneal@nv5		City/State Collected: <u>Seattle, WA</u>		Please Circle: PT MT CT ET		 MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://mfo.pacelabs.com/hubs/pas-standard-terms.pdf		
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Project Description: American Linen	Client Project # <u>1413.001.02.501.05</u>	Lab Project # PESENVSWA-ALP	SDG # <u>21468403</u>		
Phone: 206-529-3980	Site/Facility ID #	P.O. # 443018-1413001.05.601	Table #		
Collected by (print): <u>Ben Hecht</u>	Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day	Quote #	Acctnum: PESENVSWA		
Collected by (signature): <u>[Signature]</u>	Immediately Packed on Ice N <u>Y</u> <input checked="" type="checkbox"/>	Date Results Needed <u>Standard TAT</u>	Template: T203400		
No. of Cntrs		Prelogin: P903823		PM: 546 - Jared Starkey	
Shipped Via:		PB: <u>CP 2-8-22</u>		Shipped Via:	

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK 125mlHDPE-NoPres	FEG, MNG 250mlHDPE-HNO3	FEG, MNG 250mlHDPE-HNO3	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	SULFATE 125mlHDPE-NoPres	TOC 250mlHDPE-HCl	V8260ULLC 40mlAmb-HCl	Remarks	Sample # (lab only)
<u>EQ-030422</u>	<u>Grab</u>	<u>GW</u>		<u>3/4/22</u>	<u>1430</u>	<u>8</u>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>11</u>
<u>TB-030422</u>	<u>↓</u>	<u>GW</u>	<u>-</u>	<u>↓</u>	<u>1515</u>	<u>1</u>								<input checked="" type="checkbox"/>		<u>12</u>
		<u>GW</u>														
		<u>GW</u>														
		<u>GW</u>														
		<u>GW</u>														
		<u>GW</u>														
		<u>GW</u>														
		<u>GW</u>														

* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other	Remarks:	pH _____ Temp _____ Flow _____ Other _____	Sample Receipt Checklist COC Seal Present/Intact: <input type="checkbox"/> NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Tracking #		

Relinquished by: (Signature) <u>[Signature]</u>	Date: <u>3/4/2022</u>	Time: <u>1530</u>	Received by: (Signature)	Trip Blank Received: <input checked="" type="checkbox"/> Yes / No (HCl/ MeOH TBR)	Bottles Received: <u>68</u>	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: <u>15.97 °C</u>	<u>2.6 to 2.6</u>	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <u>[Signature]</u>	Date: <u>3/5/22</u>	Time: <u>930</u>	Hold: Condition: NCF / <input checked="" type="checkbox"/> OK

PES Environmental, Inc.- WA

Sample Delivery Group: L1470201
Samples Received: 03/10/2022
Project Number: 1413.001.02.501.05
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:



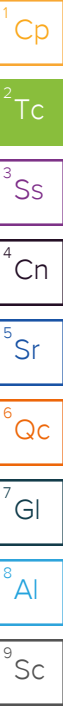
Jared Starkey
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
MW-967-030722 L1470201-01	6
MW124-030722 L1470201-02	8
MW102-030722 L1470201-03	10
GEI-MW-1-030722 L1470201-04	12
MW116-030722 L1470201-05	14
W-MW-01-030822 L1470201-06	16
MW-145R-030822 L1470201-07	18
MW-143-030822 L1470201-08	20
EQ-030822 L1470201-09	22
MW125-030822 L1470201-10	24
Qc: Quality Control Summary	26
Wet Chemistry by Method 9056A	26
Wet Chemistry by Method 9060A	29
Metals (ICPMS) by Method 6020B	31
Volatile Organic Compounds (GC) by Method NWTPHGX	32
Volatile Organic Compounds (GC) by Method RSK175	33
Volatile Organic Compounds (GC/MS) by Method 8260D	35
Gl: Glossary of Terms	42
Al: Accreditations & Locations	43
Sc: Sample Chain of Custody	44



SAMPLE SUMMARY

MW-967-030722 L1470201-01 GW

Collected by Ben Hecht Collected date/time 03/07/22 09:15 Received date/time 03/10/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1831365	1	03/12/22 14:11	03/12/22 14:11	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1832362	1	03/15/22 19:20	03/15/22 19:20	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1832281	1	03/16/22 05:05	03/16/22 12:45	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1833106	1	03/16/22 12:06	03/16/22 12:06	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1831136	1	03/11/22 20:57	03/11/22 20:57	ADM	Mt. Juliet, TN



MW124-030722 L1470201-02 GW

Collected by Ben Hecht Collected date/time 03/07/22 10:25 Received date/time 03/10/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1831136	1	03/11/22 21:16	03/11/22 21:16	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1833553	1	03/17/22 01:19	03/17/22 01:19	ADM	Mt. Juliet, TN



MW102-030722 L1470201-03 GW

Collected by Ben Hecht Collected date/time 03/07/22 12:15 Received date/time 03/10/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1831365	1	03/12/22 15:50	03/12/22 15:50	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1832362	1	03/15/22 20:14	03/15/22 20:14	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1832281	1	03/16/22 05:05	03/16/22 12:48	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1833106	1	03/16/22 12:08	03/16/22 12:08	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1831136	1	03/11/22 21:35	03/11/22 21:35	ADM	Mt. Juliet, TN



GEI-MW-1-030722 L1470201-04 GW

Collected by Ben Hecht Collected date/time 03/07/22 15:35 Received date/time 03/10/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1831136	1	03/11/22 21:54	03/11/22 21:54	ADM	Mt. Juliet, TN

MW116-030722 L1470201-05 GW

Collected by Ben Hecht Collected date/time 03/07/22 16:45 Received date/time 03/10/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1831365	1	03/12/22 16:06	03/12/22 16:06	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1832362	1	03/15/22 21:18	03/15/22 21:18	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1832281	1	03/16/22 05:05	03/16/22 12:52	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1833106	1	03/16/22 12:11	03/16/22 12:11	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1831136	1	03/11/22 22:13	03/11/22 22:13	ADM	Mt. Juliet, TN

W-MW-01-030822 L1470201-06 GW

Collected by Ben Hecht Collected date/time 03/08/22 10:12 Received date/time 03/10/22 09:15

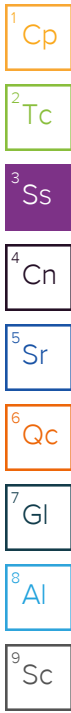
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1832225	1	03/15/22 02:30	03/15/22 02:30	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1832860	1	03/15/22 19:52	03/15/22 19:52	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1832281	1	03/16/22 05:05	03/16/22 13:30	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1833106	1	03/16/22 12:14	03/16/22 12:14	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1833564	10	03/17/22 12:09	03/17/22 12:09	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1831136	1	03/11/22 22:32	03/11/22 22:32	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1833553	1	03/17/22 01:38	03/17/22 01:38	ADM	Mt. Juliet, TN

SAMPLE SUMMARY

MW-145R-030822 L1470201-07 GW

Collected by Ben Hecht Collected date/time 03/08/22 12:00 Received date/time 03/10/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1831541	1	03/13/22 11:50	03/13/22 11:50	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1832860	1	03/15/22 20:54	03/15/22 20:54	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1832281	1	03/16/22 05:05	03/16/22 13:34	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1833106	1	03/16/22 12:16	03/16/22 12:16	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1831136	1	03/11/22 22:51	03/11/22 22:51	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1833553	1	03/17/22 01:57	03/17/22 01:57	ADM	Mt. Juliet, TN



MW-143-030822 L1470201-08 GW

Collected by Ben Hecht Collected date/time 03/08/22 12:35 Received date/time 03/10/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1831541	1	03/13/22 12:55	03/13/22 12:55	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1832860	1	03/15/22 21:20	03/15/22 21:20	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1832281	1	03/16/22 05:05	03/16/22 13:37	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1833106	1	03/16/22 12:20	03/16/22 12:20	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1833564	10	03/17/22 12:15	03/17/22 12:15	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1831136	1	03/11/22 23:10	03/11/22 23:10	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1833553	100	03/17/22 03:13	03/17/22 03:13	ADM	Mt. Juliet, TN

EQ-030822 L1470201-09 GW

Collected by Ben Hecht Collected date/time 03/08/22 14:30 Received date/time 03/10/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1831541	1	03/13/22 13:11	03/13/22 13:11	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1832860	1	03/15/22 21:33	03/15/22 21:33	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1832281	1	03/16/22 05:05	03/16/22 13:40	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1833106	1	03/16/22 12:27	03/16/22 12:27	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1831136	1	03/11/22 17:48	03/11/22 17:48	ADM	Mt. Juliet, TN

MW125-030822 L1470201-10 GW

Collected by Ben Hecht Collected date/time 03/08/22 15:25 Received date/time 03/10/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1831541	1	03/13/22 13:27	03/13/22 13:27	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1832860	1	03/15/22 22:47	03/15/22 22:47	GJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1832281	1	03/16/22 05:05	03/16/22 13:44	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1833019	1	03/16/22 14:57	03/16/22 14:57	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1833106	1	03/16/22 12:30	03/16/22 12:30	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1831136	1	03/11/22 23:29	03/11/22 23:29	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1833553	1	03/17/22 02:16	03/17/22 02:16	ADM	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jared Starkey
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	2310	J	594	5000	1	03/12/2022 14:11	WG1831365

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1530	B	102	1000	1	03/15/2022 19:20	WG1832362

Metals (ICPMS) by Method 6020B

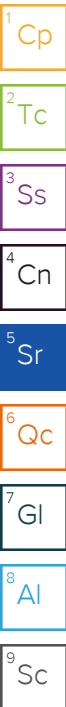
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	4410		28.1	100	1	03/16/2022 12:45	WG1832281
Manganese	249		0.704	5.00	1	03/16/2022 12:45	WG1832281

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	49.0		0.287	0.678	1	03/16/2022 12:06	WG1833106
Ethane	U		0.296	1.29	1	03/16/2022 12:06	WG1833106
Ethene	U		0.422	1.27	1	03/16/2022 12:06	WG1833106

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.79	C5 J4	0.548	1.00	1	03/11/2022 20:57	WG1831136
Acrylonitrile	U		0.0760	0.500	1	03/11/2022 20:57	WG1831136
Benzene	U		0.0160	0.0400	1	03/11/2022 20:57	WG1831136
Bromobenzene	U		0.0420	0.500	1	03/11/2022 20:57	WG1831136
Bromodichloromethane	U		0.0315	0.100	1	03/11/2022 20:57	WG1831136
Bromoform	U		0.239	1.00	1	03/11/2022 20:57	WG1831136
Bromomethane	U		0.148	0.500	1	03/11/2022 20:57	WG1831136
n-Butylbenzene	U		0.153	0.500	1	03/11/2022 20:57	WG1831136
sec-Butylbenzene	U		0.101	0.500	1	03/11/2022 20:57	WG1831136
tert-Butylbenzene	U		0.0620	0.200	1	03/11/2022 20:57	WG1831136
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/11/2022 20:57	WG1831136
Chlorobenzene	U		0.0229	0.100	1	03/11/2022 20:57	WG1831136
Chlorodibromomethane	U		0.0180	0.100	1	03/11/2022 20:57	WG1831136
Chloroethane	U		0.0432	0.200	1	03/11/2022 20:57	WG1831136
Chloroform	U		0.0166	0.100	1	03/11/2022 20:57	WG1831136
Chloromethane	U		0.0556	0.500	1	03/11/2022 20:57	WG1831136
2-Chlorotoluene	U		0.0368	0.100	1	03/11/2022 20:57	WG1831136
4-Chlorotoluene	U		0.0452	0.200	1	03/11/2022 20:57	WG1831136
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/11/2022 20:57	WG1831136
1,2-Dibromoethane	U		0.0210	0.100	1	03/11/2022 20:57	WG1831136
Dibromomethane	U		0.0400	0.200	1	03/11/2022 20:57	WG1831136
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/11/2022 20:57	WG1831136
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/11/2022 20:57	WG1831136
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/11/2022 20:57	WG1831136
Dichlorodifluoromethane	U		0.0327	0.100	1	03/11/2022 20:57	WG1831136
1,1-Dichloroethane	U		0.0230	0.100	1	03/11/2022 20:57	WG1831136
1,2-Dichloroethane	U		0.0190	0.100	1	03/11/2022 20:57	WG1831136
1,1-Dichloroethene	U		0.0200	0.100	1	03/11/2022 20:57	WG1831136
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/11/2022 20:57	WG1831136
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/11/2022 20:57	WG1831136
1,2-Dichloropropane	U		0.0508	0.200	1	03/11/2022 20:57	WG1831136



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/11/2022 20:57	WG1831136
1,3-Dichloropropane	U		0.0700	0.200	1	03/11/2022 20:57	WG1831136
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/11/2022 20:57	WG1831136
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/11/2022 20:57	WG1831136
2,2-Dichloropropane	U		0.0317	0.100	1	03/11/2022 20:57	WG1831136
Di-isopropyl ether	U		0.0140	0.0400	1	03/11/2022 20:57	WG1831136
Ethylbenzene	U		0.0212	0.100	1	03/11/2022 20:57	WG1831136
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/11/2022 20:57	WG1831136
Isopropylbenzene	U		0.0345	0.100	1	03/11/2022 20:57	WG1831136
p-Isopropyltoluene	U		0.0932	0.200	1	03/11/2022 20:57	WG1831136
2-Butanone (MEK)	U		0.500	1.00	1	03/11/2022 20:57	WG1831136
Methylene Chloride	U		0.265	1.00	1	03/11/2022 20:57	WG1831136
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/11/2022 20:57	WG1831136
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/11/2022 20:57	WG1831136
Naphthalene	U		0.124	0.500	1	03/11/2022 20:57	WG1831136
n-Propylbenzene	U		0.0472	0.200	1	03/11/2022 20:57	WG1831136
Styrene	U		0.109	0.500	1	03/11/2022 20:57	WG1831136
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/11/2022 20:57	WG1831136
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/11/2022 20:57	WG1831136
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/11/2022 20:57	WG1831136
Tetrachloroethene	U	J4	0.0280	0.100	1	03/11/2022 20:57	WG1831136
Toluene	U		0.0500	0.200	1	03/11/2022 20:57	WG1831136
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/11/2022 20:57	WG1831136
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/11/2022 20:57	WG1831136
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/11/2022 20:57	WG1831136
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/11/2022 20:57	WG1831136
Trichloroethene	U		0.0160	0.0400	1	03/11/2022 20:57	WG1831136
Trichlorofluoromethane	U		0.0200	0.100	1	03/11/2022 20:57	WG1831136
1,2,3-Trichloropropane	U		0.204	0.500	1	03/11/2022 20:57	WG1831136
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/11/2022 20:57	WG1831136
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/11/2022 20:57	WG1831136
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/11/2022 20:57	WG1831136
Vinyl chloride	U		0.0273	0.100	1	03/11/2022 20:57	WG1831136
Xylenes, Total	U		0.191	0.260	1	03/11/2022 20:57	WG1831136
Ethyl Ether	U		0.0170	0.100	1	03/11/2022 20:57	WG1831136
Tetrahydrofuran	U		0.0900	0.500	1	03/11/2022 20:57	WG1831136
Iodomethane	U		0.242	0.500	1	03/11/2022 20:57	WG1831136
Allyl chloride	U		0.580	1.00	1	03/11/2022 20:57	WG1831136
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/11/2022 20:57	WG1831136
(S) Toluene-d8	110			75.0-131		03/11/2022 20:57	WG1831136
(S) 4-Bromofluorobenzene	102			67.0-138		03/11/2022 20:57	WG1831136
(S) 1,2-Dichloroethane-d4	103			70.0-130		03/11/2022 20:57	WG1831136

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.04	C5 J4	0.548	1.00	1	03/11/2022 21:16	WG1831136
Acrylonitrile	U		0.0760	0.500	1	03/11/2022 21:16	WG1831136
Benzene	U		0.0160	0.0400	1	03/11/2022 21:16	WG1831136
Bromobenzene	U		0.0420	0.500	1	03/11/2022 21:16	WG1831136
Bromodichloromethane	U		0.0315	0.100	1	03/11/2022 21:16	WG1831136
Bromoform	U		0.239	1.00	1	03/11/2022 21:16	WG1831136
Bromomethane	U		0.148	0.500	1	03/11/2022 21:16	WG1831136
n-Butylbenzene	U		0.153	0.500	1	03/11/2022 21:16	WG1831136
sec-Butylbenzene	U		0.101	0.500	1	03/11/2022 21:16	WG1831136
tert-Butylbenzene	U		0.0620	0.200	1	03/11/2022 21:16	WG1831136
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/11/2022 21:16	WG1831136
Chlorobenzene	U		0.0229	0.100	1	03/11/2022 21:16	WG1831136
Chlorodibromomethane	U		0.0180	0.100	1	03/11/2022 21:16	WG1831136
Chloroethane	U		0.0432	0.200	1	03/11/2022 21:16	WG1831136
Chloroform	0.0620	J	0.0166	0.100	1	03/11/2022 21:16	WG1831136
Chloromethane	U		0.0556	0.500	1	03/11/2022 21:16	WG1831136
2-Chlorotoluene	U		0.0368	0.100	1	03/11/2022 21:16	WG1831136
4-Chlorotoluene	U		0.0452	0.200	1	03/11/2022 21:16	WG1831136
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/11/2022 21:16	WG1831136
1,2-Dibromoethane	U		0.0210	0.100	1	03/11/2022 21:16	WG1831136
Dibromomethane	U		0.0400	0.200	1	03/11/2022 21:16	WG1831136
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/11/2022 21:16	WG1831136
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/11/2022 21:16	WG1831136
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/11/2022 21:16	WG1831136
Dichlorodifluoromethane	U		0.0327	0.100	1	03/11/2022 21:16	WG1831136
1,1-Dichloroethane	U		0.0230	0.100	1	03/11/2022 21:16	WG1831136
1,2-Dichloroethane	U		0.0190	0.100	1	03/11/2022 21:16	WG1831136
1,1-Dichloroethene	U		0.0200	0.100	1	03/11/2022 21:16	WG1831136
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/11/2022 21:16	WG1831136
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/11/2022 21:16	WG1831136
1,2-Dichloropropane	U		0.0508	0.200	1	03/11/2022 21:16	WG1831136
1,1-Dichloropropene	U		0.0280	0.100	1	03/11/2022 21:16	WG1831136
1,3-Dichloropropane	U		0.0700	0.200	1	03/11/2022 21:16	WG1831136
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/11/2022 21:16	WG1831136
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/11/2022 21:16	WG1831136
2,2-Dichloropropane	U		0.0317	0.100	1	03/11/2022 21:16	WG1831136
Di-isopropyl ether	U		0.0140	0.0400	1	03/11/2022 21:16	WG1831136
Ethylbenzene	U		0.0212	0.100	1	03/11/2022 21:16	WG1831136
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/11/2022 21:16	WG1831136
Isopropylbenzene	U		0.0345	0.100	1	03/11/2022 21:16	WG1831136
p-Isopropyltoluene	U		0.0932	0.200	1	03/11/2022 21:16	WG1831136
2-Butanone (MEK)	U		0.500	1.00	1	03/11/2022 21:16	WG1831136
Methylene Chloride	U		0.265	1.00	1	03/11/2022 21:16	WG1831136
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/11/2022 21:16	WG1831136
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/11/2022 21:16	WG1831136
Naphthalene	U		0.124	0.500	1	03/11/2022 21:16	WG1831136
n-Propylbenzene	U		0.0472	0.200	1	03/11/2022 21:16	WG1831136
Styrene	U		0.109	0.500	1	03/11/2022 21:16	WG1831136
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/11/2022 21:16	WG1831136
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/11/2022 21:16	WG1831136
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/11/2022 21:16	WG1831136
Tetrachloroethene	0.0750	J J4	0.0280	0.100	1	03/11/2022 21:16	WG1831136
Toluene	U		0.0500	0.200	1	03/11/2022 21:16	WG1831136
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/11/2022 21:16	WG1831136
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/11/2022 21:16	WG1831136
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/11/2022 21:16	WG1831136

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/11/2022 21:16	WG1831136
Trichloroethene	U		0.0160	0.0400	1	03/11/2022 21:16	WG1831136
Trichlorofluoromethane	U		0.0200	0.100	1	03/11/2022 21:16	WG1831136
1,2,3-Trichloropropane	U		0.204	0.500	1	03/11/2022 21:16	WG1831136
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/11/2022 21:16	WG1831136
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/11/2022 21:16	WG1831136
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/11/2022 21:16	WG1831136
Vinyl chloride	U		0.0273	0.100	1	03/11/2022 21:16	WG1831136
Xylenes, Total	U		0.191	0.260	1	03/11/2022 21:16	WG1831136
Ethyl Ether	U		0.0170	0.100	1	03/11/2022 21:16	WG1831136
Tetrahydrofuran	68.9		0.0900	0.500	1	03/17/2022 01:19	WG1833553
Iodomethane	U		0.242	0.500	1	03/11/2022 21:16	WG1831136
Allyl chloride	U		0.580	1.00	1	03/11/2022 21:16	WG1831136
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/11/2022 21:16	WG1831136
(S) Toluene-d8	109			75.0-131		03/11/2022 21:16	WG1831136
(S) Toluene-d8	101			75.0-131		03/17/2022 01:19	WG1833553
(S) 4-Bromofluorobenzene	102			67.0-138		03/11/2022 21:16	WG1831136
(S) 4-Bromofluorobenzene	101			67.0-138		03/17/2022 01:19	WG1833553
(S) 1,2-Dichloroethane-d4	103			70.0-130		03/11/2022 21:16	WG1831136
(S) 1,2-Dichloroethane-d4	112			70.0-130		03/17/2022 01:19	WG1833553

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	2240	J	594	5000	1	03/12/2022 15:50	WG1831365

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1570	B	102	1000	1	03/15/2022 20:14	WG1832362

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	4290		28.1	100	1	03/16/2022 12:48	WG1832281
Manganese	240		0.704	5.00	1	03/16/2022 12:48	WG1832281

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	51.2		0.287	0.678	1	03/16/2022 12:08	WG1833106
Ethane	U		0.296	1.29	1	03/16/2022 12:08	WG1833106
Ethene	U		0.422	1.27	1	03/16/2022 12:08	WG1833106

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.21	C5 J4	0.548	1.00	1	03/11/2022 21:35	WG1831136
Acrylonitrile	U		0.0760	0.500	1	03/11/2022 21:35	WG1831136
Benzene	U		0.0160	0.0400	1	03/11/2022 21:35	WG1831136
Bromobenzene	U		0.0420	0.500	1	03/11/2022 21:35	WG1831136
Bromodichloromethane	U		0.0315	0.100	1	03/11/2022 21:35	WG1831136
Bromoform	U		0.239	1.00	1	03/11/2022 21:35	WG1831136
Bromomethane	U		0.148	0.500	1	03/11/2022 21:35	WG1831136
n-Butylbenzene	U		0.153	0.500	1	03/11/2022 21:35	WG1831136
sec-Butylbenzene	U		0.101	0.500	1	03/11/2022 21:35	WG1831136
tert-Butylbenzene	U		0.0620	0.200	1	03/11/2022 21:35	WG1831136
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/11/2022 21:35	WG1831136
Chlorobenzene	U		0.0229	0.100	1	03/11/2022 21:35	WG1831136
Chlorodibromomethane	U		0.0180	0.100	1	03/11/2022 21:35	WG1831136
Chloroethane	U		0.0432	0.200	1	03/11/2022 21:35	WG1831136
Chloroform	U		0.0166	0.100	1	03/11/2022 21:35	WG1831136
Chloromethane	U		0.0556	0.500	1	03/11/2022 21:35	WG1831136
2-Chlorotoluene	U		0.0368	0.100	1	03/11/2022 21:35	WG1831136
4-Chlorotoluene	U		0.0452	0.200	1	03/11/2022 21:35	WG1831136
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/11/2022 21:35	WG1831136
1,2-Dibromoethane	U		0.0210	0.100	1	03/11/2022 21:35	WG1831136
Dibromomethane	U		0.0400	0.200	1	03/11/2022 21:35	WG1831136
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/11/2022 21:35	WG1831136
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/11/2022 21:35	WG1831136
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/11/2022 21:35	WG1831136
Dichlorodifluoromethane	U		0.0327	0.100	1	03/11/2022 21:35	WG1831136
1,1-Dichloroethane	U		0.0230	0.100	1	03/11/2022 21:35	WG1831136
1,2-Dichloroethane	U		0.0190	0.100	1	03/11/2022 21:35	WG1831136
1,1-Dichloroethene	U		0.0200	0.100	1	03/11/2022 21:35	WG1831136
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/11/2022 21:35	WG1831136
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/11/2022 21:35	WG1831136
1,2-Dichloropropane	U		0.0508	0.200	1	03/11/2022 21:35	WG1831136

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

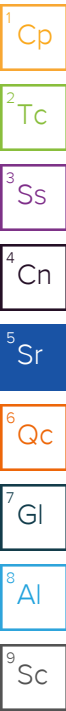
Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/11/2022 21:35	WG1831136
1,3-Dichloropropane	U		0.0700	0.200	1	03/11/2022 21:35	WG1831136
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/11/2022 21:35	WG1831136
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/11/2022 21:35	WG1831136
2,2-Dichloropropane	U		0.0317	0.100	1	03/11/2022 21:35	WG1831136
Di-isopropyl ether	U		0.0140	0.0400	1	03/11/2022 21:35	WG1831136
Ethylbenzene	U		0.0212	0.100	1	03/11/2022 21:35	WG1831136
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/11/2022 21:35	WG1831136
Isopropylbenzene	U		0.0345	0.100	1	03/11/2022 21:35	WG1831136
p-Isopropyltoluene	U		0.0932	0.200	1	03/11/2022 21:35	WG1831136
2-Butanone (MEK)	U		0.500	1.00	1	03/11/2022 21:35	WG1831136
Methylene Chloride	U		0.265	1.00	1	03/11/2022 21:35	WG1831136
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/11/2022 21:35	WG1831136
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/11/2022 21:35	WG1831136
Naphthalene	U		0.124	0.500	1	03/11/2022 21:35	WG1831136
n-Propylbenzene	U		0.0472	0.200	1	03/11/2022 21:35	WG1831136
Styrene	U		0.109	0.500	1	03/11/2022 21:35	WG1831136
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/11/2022 21:35	WG1831136
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/11/2022 21:35	WG1831136
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/11/2022 21:35	WG1831136
Tetrachloroethene	U	J4	0.0280	0.100	1	03/11/2022 21:35	WG1831136
Toluene	U		0.0500	0.200	1	03/11/2022 21:35	WG1831136
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/11/2022 21:35	WG1831136
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/11/2022 21:35	WG1831136
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/11/2022 21:35	WG1831136
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/11/2022 21:35	WG1831136
Trichloroethene	U		0.0160	0.0400	1	03/11/2022 21:35	WG1831136
Trichlorofluoromethane	U		0.0200	0.100	1	03/11/2022 21:35	WG1831136
1,2,3-Trichloropropane	U		0.204	0.500	1	03/11/2022 21:35	WG1831136
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/11/2022 21:35	WG1831136
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/11/2022 21:35	WG1831136
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/11/2022 21:35	WG1831136
Vinyl chloride	U		0.0273	0.100	1	03/11/2022 21:35	WG1831136
Xylenes, Total	U		0.191	0.260	1	03/11/2022 21:35	WG1831136
Ethyl Ether	U		0.0170	0.100	1	03/11/2022 21:35	WG1831136
Tetrahydrofuran	U		0.0900	0.500	1	03/11/2022 21:35	WG1831136
Iodomethane	U		0.242	0.500	1	03/11/2022 21:35	WG1831136
Allyl chloride	U		0.580	1.00	1	03/11/2022 21:35	WG1831136
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/11/2022 21:35	WG1831136
(S) Toluene-d8	108			75.0-131		03/11/2022 21:35	WG1831136
(S) 4-Bromofluorobenzene	101			67.0-138		03/11/2022 21:35	WG1831136
(S) 1,2-Dichloroethane-d4	105			70.0-130		03/11/2022 21:35	WG1831136

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.71	C5 J4	0.548	1.00	1	03/11/2022 21:54	WG1831136
Acrylonitrile	U		0.0760	0.500	1	03/11/2022 21:54	WG1831136
Benzene	U		0.0160	0.0400	1	03/11/2022 21:54	WG1831136
Bromobenzene	U		0.0420	0.500	1	03/11/2022 21:54	WG1831136
Bromodichloromethane	U		0.0315	0.100	1	03/11/2022 21:54	WG1831136
Bromoform	U		0.239	1.00	1	03/11/2022 21:54	WG1831136
Bromomethane	U		0.148	0.500	1	03/11/2022 21:54	WG1831136
n-Butylbenzene	U		0.153	0.500	1	03/11/2022 21:54	WG1831136
sec-Butylbenzene	U		0.101	0.500	1	03/11/2022 21:54	WG1831136
tert-Butylbenzene	U		0.0620	0.200	1	03/11/2022 21:54	WG1831136
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/11/2022 21:54	WG1831136
Chlorobenzene	U		0.0229	0.100	1	03/11/2022 21:54	WG1831136
Chlorodibromomethane	U		0.0180	0.100	1	03/11/2022 21:54	WG1831136
Chloroethane	U		0.0432	0.200	1	03/11/2022 21:54	WG1831136
Chloroform	U		0.0166	0.100	1	03/11/2022 21:54	WG1831136
Chloromethane	U		0.0556	0.500	1	03/11/2022 21:54	WG1831136
2-Chlorotoluene	U		0.0368	0.100	1	03/11/2022 21:54	WG1831136
4-Chlorotoluene	U		0.0452	0.200	1	03/11/2022 21:54	WG1831136
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/11/2022 21:54	WG1831136
1,2-Dibromoethane	U		0.0210	0.100	1	03/11/2022 21:54	WG1831136
Dibromomethane	U		0.0400	0.200	1	03/11/2022 21:54	WG1831136
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/11/2022 21:54	WG1831136
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/11/2022 21:54	WG1831136
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/11/2022 21:54	WG1831136
Dichlorodifluoromethane	U		0.0327	0.100	1	03/11/2022 21:54	WG1831136
1,1-Dichloroethane	U		0.0230	0.100	1	03/11/2022 21:54	WG1831136
1,2-Dichloroethane	U		0.0190	0.100	1	03/11/2022 21:54	WG1831136
1,1-Dichloroethene	U		0.0200	0.100	1	03/11/2022 21:54	WG1831136
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/11/2022 21:54	WG1831136
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/11/2022 21:54	WG1831136
1,2-Dichloropropane	U		0.0508	0.200	1	03/11/2022 21:54	WG1831136
1,1-Dichloropropene	U		0.0280	0.100	1	03/11/2022 21:54	WG1831136
1,3-Dichloropropane	U		0.0700	0.200	1	03/11/2022 21:54	WG1831136
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/11/2022 21:54	WG1831136
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/11/2022 21:54	WG1831136
2,2-Dichloropropane	U		0.0317	0.100	1	03/11/2022 21:54	WG1831136
Di-isopropyl ether	0.0470		0.0140	0.0400	1	03/11/2022 21:54	WG1831136
Ethylbenzene	U		0.0212	0.100	1	03/11/2022 21:54	WG1831136
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/11/2022 21:54	WG1831136
Isopropylbenzene	U		0.0345	0.100	1	03/11/2022 21:54	WG1831136
p-Isopropyltoluene	U		0.0932	0.200	1	03/11/2022 21:54	WG1831136
2-Butanone (MEK)	U		0.500	1.00	1	03/11/2022 21:54	WG1831136
Methylene Chloride	U		0.265	1.00	1	03/11/2022 21:54	WG1831136
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/11/2022 21:54	WG1831136
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/11/2022 21:54	WG1831136
Naphthalene	U		0.124	0.500	1	03/11/2022 21:54	WG1831136
n-Propylbenzene	U		0.0472	0.200	1	03/11/2022 21:54	WG1831136
Styrene	U		0.109	0.500	1	03/11/2022 21:54	WG1831136
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/11/2022 21:54	WG1831136
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/11/2022 21:54	WG1831136
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/11/2022 21:54	WG1831136
Tetrachloroethene	U	J4	0.0280	0.100	1	03/11/2022 21:54	WG1831136
Toluene	U		0.0500	0.200	1	03/11/2022 21:54	WG1831136
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/11/2022 21:54	WG1831136
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/11/2022 21:54	WG1831136
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/11/2022 21:54	WG1831136



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/11/2022 21:54	WG1831136
Trichloroethene	U		0.0160	0.0400	1	03/11/2022 21:54	WG1831136
Trichlorofluoromethane	U		0.0200	0.100	1	03/11/2022 21:54	WG1831136
1,2,3-Trichloropropane	U		0.204	0.500	1	03/11/2022 21:54	WG1831136
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/11/2022 21:54	WG1831136
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/11/2022 21:54	WG1831136
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/11/2022 21:54	WG1831136
Vinyl chloride	U		0.0273	0.100	1	03/11/2022 21:54	WG1831136
Xylenes, Total	U		0.191	0.260	1	03/11/2022 21:54	WG1831136
Ethyl Ether	0.364		0.0170	0.100	1	03/11/2022 21:54	WG1831136
Tetrahydrofuran	U		0.0900	0.500	1	03/11/2022 21:54	WG1831136
Iodomethane	U		0.242	0.500	1	03/11/2022 21:54	WG1831136
Allyl chloride	U		0.580	1.00	1	03/11/2022 21:54	WG1831136
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/11/2022 21:54	WG1831136
(S) Toluene-d8	109			75.0-131		03/11/2022 21:54	WG1831136
(S) 4-Bromofluorobenzene	100			67.0-138		03/11/2022 21:54	WG1831136
(S) 1,2-Dichloroethane-d4	104			70.0-130		03/11/2022 21:54	WG1831136

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	8980		594	5000	1	03/12/2022 16:06	WG1831365

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	5680	<u>B</u>	102	1000	1	03/15/2022 21:18	WG1832362

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	3750		28.1	100	1	03/16/2022 12:52	WG1832281
Manganese	745		0.704	5.00	1	03/16/2022 12:52	WG1832281

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	994		0.287	0.678	1	03/16/2022 12:11	WG1833106
Ethane	U		0.296	1.29	1	03/16/2022 12:11	WG1833106
Ethene	U		0.422	1.27	1	03/16/2022 12:11	WG1833106

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	3.25	<u>C5 J4</u>	0.548	1.00	1	03/11/2022 22:13	WG1831136
Acrylonitrile	U		0.0760	0.500	1	03/11/2022 22:13	WG1831136
Benzene	U		0.0160	0.0400	1	03/11/2022 22:13	WG1831136
Bromobenzene	U		0.0420	0.500	1	03/11/2022 22:13	WG1831136
Bromodichloromethane	U		0.0315	0.100	1	03/11/2022 22:13	WG1831136
Bromoform	U		0.239	1.00	1	03/11/2022 22:13	WG1831136
Bromomethane	U		0.148	0.500	1	03/11/2022 22:13	WG1831136
n-Butylbenzene	U		0.153	0.500	1	03/11/2022 22:13	WG1831136
sec-Butylbenzene	U		0.101	0.500	1	03/11/2022 22:13	WG1831136
tert-Butylbenzene	U		0.0620	0.200	1	03/11/2022 22:13	WG1831136
Carbon tetrachloride	U	<u>J4</u>	0.0432	0.200	1	03/11/2022 22:13	WG1831136
Chlorobenzene	U		0.0229	0.100	1	03/11/2022 22:13	WG1831136
Chlorodibromomethane	U		0.0180	0.100	1	03/11/2022 22:13	WG1831136
Chloroethane	U		0.0432	0.200	1	03/11/2022 22:13	WG1831136
Chloroform	U		0.0166	0.100	1	03/11/2022 22:13	WG1831136
Chloromethane	U		0.0556	0.500	1	03/11/2022 22:13	WG1831136
2-Chlorotoluene	U		0.0368	0.100	1	03/11/2022 22:13	WG1831136
4-Chlorotoluene	U		0.0452	0.200	1	03/11/2022 22:13	WG1831136
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/11/2022 22:13	WG1831136
1,2-Dibromoethane	U		0.0210	0.100	1	03/11/2022 22:13	WG1831136
Dibromomethane	U		0.0400	0.200	1	03/11/2022 22:13	WG1831136
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/11/2022 22:13	WG1831136
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/11/2022 22:13	WG1831136
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/11/2022 22:13	WG1831136
Dichlorodifluoromethane	U		0.0327	0.100	1	03/11/2022 22:13	WG1831136
1,1-Dichloroethane	U		0.0230	0.100	1	03/11/2022 22:13	WG1831136
1,2-Dichloroethane	U		0.0190	0.100	1	03/11/2022 22:13	WG1831136
1,1-Dichloroethene	U		0.0200	0.100	1	03/11/2022 22:13	WG1831136
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/11/2022 22:13	WG1831136
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/11/2022 22:13	WG1831136
1,2-Dichloropropane	U		0.0508	0.200	1	03/11/2022 22:13	WG1831136

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/11/2022 22:13	WG1831136
1,3-Dichloropropane	U		0.0700	0.200	1	03/11/2022 22:13	WG1831136
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/11/2022 22:13	WG1831136
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/11/2022 22:13	WG1831136
2,2-Dichloropropane	U		0.0317	0.100	1	03/11/2022 22:13	WG1831136
Di-isopropyl ether	U		0.0140	0.0400	1	03/11/2022 22:13	WG1831136
Ethylbenzene	U		0.0212	0.100	1	03/11/2022 22:13	WG1831136
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/11/2022 22:13	WG1831136
Isopropylbenzene	U		0.0345	0.100	1	03/11/2022 22:13	WG1831136
p-Isopropyltoluene	U		0.0932	0.200	1	03/11/2022 22:13	WG1831136
2-Butanone (MEK)	U		0.500	1.00	1	03/11/2022 22:13	WG1831136
Methylene Chloride	U		0.265	1.00	1	03/11/2022 22:13	WG1831136
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/11/2022 22:13	WG1831136
Methyl tert-butyl ether	0.0170	J	0.0118	0.0400	1	03/11/2022 22:13	WG1831136
Naphthalene	U		0.124	0.500	1	03/11/2022 22:13	WG1831136
n-Propylbenzene	U		0.0472	0.200	1	03/11/2022 22:13	WG1831136
Styrene	U		0.109	0.500	1	03/11/2022 22:13	WG1831136
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/11/2022 22:13	WG1831136
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/11/2022 22:13	WG1831136
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/11/2022 22:13	WG1831136
Tetrachloroethene	U	J4	0.0280	0.100	1	03/11/2022 22:13	WG1831136
Toluene	U		0.0500	0.200	1	03/11/2022 22:13	WG1831136
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/11/2022 22:13	WG1831136
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/11/2022 22:13	WG1831136
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/11/2022 22:13	WG1831136
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/11/2022 22:13	WG1831136
Trichloroethene	U		0.0160	0.0400	1	03/11/2022 22:13	WG1831136
Trichlorofluoromethane	U		0.0200	0.100	1	03/11/2022 22:13	WG1831136
1,2,3-Trichloropropane	U		0.204	0.500	1	03/11/2022 22:13	WG1831136
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/11/2022 22:13	WG1831136
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/11/2022 22:13	WG1831136
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/11/2022 22:13	WG1831136
Vinyl chloride	U		0.0273	0.100	1	03/11/2022 22:13	WG1831136
Xylenes, Total	U		0.191	0.260	1	03/11/2022 22:13	WG1831136
Ethyl Ether	U		0.0170	0.100	1	03/11/2022 22:13	WG1831136
Tetrahydrofuran	U		0.0900	0.500	1	03/11/2022 22:13	WG1831136
Iodomethane	U		0.242	0.500	1	03/11/2022 22:13	WG1831136
Allyl chloride	U		0.580	1.00	1	03/11/2022 22:13	WG1831136
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/11/2022 22:13	WG1831136
(S) Toluene-d8	110			75.0-131		03/11/2022 22:13	WG1831136
(S) 4-Bromofluorobenzene	102			67.0-138		03/11/2022 22:13	WG1831136
(S) 1,2-Dichloroethane-d4	104			70.0-130		03/11/2022 22:13	WG1831136

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	18300		594	5000	1	03/15/2022 02:30	WG1832225

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3580		102	1000	1	03/15/2022 19:52	WG1832860

Metals (ICPMS) by Method 6020B

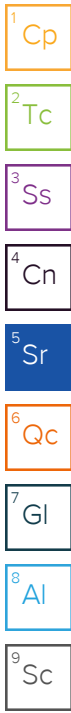
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	20700		28.1	100	1	03/16/2022 13:30	WG1832281
Manganese	1810		0.704	5.00	1	03/16/2022 13:30	WG1832281

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	24500		2.87	6.78	10	03/17/2022 12:09	WG1833564
Ethane	U		0.296	1.29	1	03/16/2022 12:14	WG1833106
Ethene	U		0.422	1.27	1	03/16/2022 12:14	WG1833106

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.33	C5 J4	0.548	1.00	1	03/11/2022 22:32	WG1831136
Acrylonitrile	U		0.0760	0.500	1	03/11/2022 22:32	WG1831136
Benzene	U		0.0160	0.0400	1	03/11/2022 22:32	WG1831136
Bromobenzene	U		0.0420	0.500	1	03/11/2022 22:32	WG1831136
Bromodichloromethane	U		0.0315	0.100	1	03/11/2022 22:32	WG1831136
Bromoform	U		0.239	1.00	1	03/11/2022 22:32	WG1831136
Bromomethane	U		0.148	0.500	1	03/11/2022 22:32	WG1831136
n-Butylbenzene	U		0.153	0.500	1	03/11/2022 22:32	WG1831136
sec-Butylbenzene	U		0.101	0.500	1	03/11/2022 22:32	WG1831136
tert-Butylbenzene	U		0.0620	0.200	1	03/11/2022 22:32	WG1831136
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/11/2022 22:32	WG1831136
Chlorobenzene	U		0.0229	0.100	1	03/11/2022 22:32	WG1831136
Chlorodibromomethane	U		0.0180	0.100	1	03/11/2022 22:32	WG1831136
Chloroethane	U		0.0432	0.200	1	03/11/2022 22:32	WG1831136
Chloroform	U		0.0166	0.100	1	03/11/2022 22:32	WG1831136
Chloromethane	U		0.0556	0.500	1	03/11/2022 22:32	WG1831136
2-Chlorotoluene	U		0.0368	0.100	1	03/11/2022 22:32	WG1831136
4-Chlorotoluene	U		0.0452	0.200	1	03/11/2022 22:32	WG1831136
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/11/2022 22:32	WG1831136
1,2-Dibromoethane	U		0.0210	0.100	1	03/11/2022 22:32	WG1831136
Dibromomethane	U		0.0400	0.200	1	03/11/2022 22:32	WG1831136
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/11/2022 22:32	WG1831136
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/11/2022 22:32	WG1831136
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/11/2022 22:32	WG1831136
Dichlorodifluoromethane	U		0.0327	0.100	1	03/11/2022 22:32	WG1831136
1,1-Dichloroethane	U		0.0230	0.100	1	03/11/2022 22:32	WG1831136
1,2-Dichloroethane	U		0.0190	0.100	1	03/11/2022 22:32	WG1831136
1,1-Dichloroethene	U		0.0200	0.100	1	03/11/2022 22:32	WG1831136
cis-1,2-Dichloroethene	0.377		0.0276	0.100	1	03/11/2022 22:32	WG1831136
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/11/2022 22:32	WG1831136
1,2-Dichloropropane	U		0.0508	0.200	1	03/11/2022 22:32	WG1831136



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/11/2022 22:32	WG1831136
1,3-Dichloropropane	U		0.0700	0.200	1	03/11/2022 22:32	WG1831136
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/11/2022 22:32	WG1831136
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/11/2022 22:32	WG1831136
2,2-Dichloropropane	U		0.0317	0.100	1	03/11/2022 22:32	WG1831136
Di-isopropyl ether	U		0.0140	0.0400	1	03/11/2022 22:32	WG1831136
Ethylbenzene	U		0.0212	0.100	1	03/11/2022 22:32	WG1831136
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/11/2022 22:32	WG1831136
Isopropylbenzene	U		0.0345	0.100	1	03/11/2022 22:32	WG1831136
p-Isopropyltoluene	U		0.0932	0.200	1	03/11/2022 22:32	WG1831136
2-Butanone (MEK)	U		0.500	1.00	1	03/11/2022 22:32	WG1831136
Methylene Chloride	U		0.265	1.00	1	03/11/2022 22:32	WG1831136
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/11/2022 22:32	WG1831136
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/11/2022 22:32	WG1831136
Naphthalene	U		0.124	0.500	1	03/11/2022 22:32	WG1831136
n-Propylbenzene	U		0.0472	0.200	1	03/11/2022 22:32	WG1831136
Styrene	U		0.109	0.500	1	03/11/2022 22:32	WG1831136
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/11/2022 22:32	WG1831136
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/11/2022 22:32	WG1831136
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/11/2022 22:32	WG1831136
Tetrachloroethene	U	J4	0.0280	0.100	1	03/11/2022 22:32	WG1831136
Toluene	0.0880	J	0.0500	0.200	1	03/11/2022 22:32	WG1831136
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/11/2022 22:32	WG1831136
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/11/2022 22:32	WG1831136
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/11/2022 22:32	WG1831136
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/11/2022 22:32	WG1831136
Trichloroethene	0.103	C5	0.0160	0.0400	1	03/11/2022 22:32	WG1831136
Trichlorofluoromethane	U		0.0200	0.100	1	03/11/2022 22:32	WG1831136
1,2,3-Trichloropropane	U		0.204	0.500	1	03/11/2022 22:32	WG1831136
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/11/2022 22:32	WG1831136
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/11/2022 22:32	WG1831136
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/11/2022 22:32	WG1831136
Vinyl chloride	3.22	C5	0.0273	0.100	1	03/11/2022 22:32	WG1831136
Xylenes, Total	U		0.191	0.260	1	03/11/2022 22:32	WG1831136
Ethyl Ether	U		0.0170	0.100	1	03/11/2022 22:32	WG1831136
Tetrahydrofuran	5.54		0.0900	0.500	1	03/17/2022 01:38	WG1833553
Iodomethane	U		0.242	0.500	1	03/11/2022 22:32	WG1831136
Allyl chloride	U		0.580	1.00	1	03/11/2022 22:32	WG1831136
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/11/2022 22:32	WG1831136
(S) Toluene-d8	108			75.0-131		03/11/2022 22:32	WG1831136
(S) Toluene-d8	99.6			75.0-131		03/17/2022 01:38	WG1833553
(S) 4-Bromofluorobenzene	98.6			67.0-138		03/11/2022 22:32	WG1831136
(S) 4-Bromofluorobenzene	98.7			67.0-138		03/17/2022 01:38	WG1833553
(S) 1,2-Dichloroethane-d4	109			70.0-130		03/11/2022 22:32	WG1831136
(S) 1,2-Dichloroethane-d4	110			70.0-130		03/17/2022 01:38	WG1833553

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	27200		594	5000	1	03/13/2022 11:50	WG1831541

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1860	<u>B</u>	102	1000	1	03/15/2022 20:54	WG1832860

Metals (ICPMS) by Method 6020B

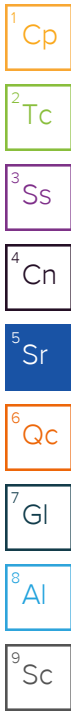
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1070		28.1	100	1	03/16/2022 13:34	WG1832281
Manganese	314		0.704	5.00	1	03/16/2022 13:34	WG1832281

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	3080		0.287	0.678	1	03/16/2022 12:16	WG1833106
Ethane	1.45		0.296	1.29	1	03/16/2022 12:16	WG1833106
Ethene	0.602	<u>J</u>	0.422	1.27	1	03/16/2022 12:16	WG1833106

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	<u>J4</u>	0.548	1.00	1	03/11/2022 22:51	WG1831136
Acrylonitrile	U		0.0760	0.500	1	03/11/2022 22:51	WG1831136
Benzene	U		0.0160	0.0400	1	03/11/2022 22:51	WG1831136
Bromobenzene	U		0.0420	0.500	1	03/11/2022 22:51	WG1831136
Bromodichloromethane	U		0.0315	0.100	1	03/11/2022 22:51	WG1831136
Bromoform	U		0.239	1.00	1	03/11/2022 22:51	WG1831136
Bromomethane	U		0.148	0.500	1	03/11/2022 22:51	WG1831136
n-Butylbenzene	U		0.153	0.500	1	03/11/2022 22:51	WG1831136
sec-Butylbenzene	U		0.101	0.500	1	03/11/2022 22:51	WG1831136
tert-Butylbenzene	U		0.0620	0.200	1	03/11/2022 22:51	WG1831136
Carbon tetrachloride	U	<u>J4</u>	0.0432	0.200	1	03/11/2022 22:51	WG1831136
Chlorobenzene	U		0.0229	0.100	1	03/11/2022 22:51	WG1831136
Chlorodibromomethane	U		0.0180	0.100	1	03/11/2022 22:51	WG1831136
Chloroethane	U		0.0432	0.200	1	03/11/2022 22:51	WG1831136
Chloroform	U		0.0166	0.100	1	03/11/2022 22:51	WG1831136
Chloromethane	U		0.0556	0.500	1	03/11/2022 22:51	WG1831136
2-Chlorotoluene	U		0.0368	0.100	1	03/11/2022 22:51	WG1831136
4-Chlorotoluene	U		0.0452	0.200	1	03/11/2022 22:51	WG1831136
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/11/2022 22:51	WG1831136
1,2-Dibromoethane	U		0.0210	0.100	1	03/11/2022 22:51	WG1831136
Dibromomethane	U		0.0400	0.200	1	03/11/2022 22:51	WG1831136
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/11/2022 22:51	WG1831136
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/11/2022 22:51	WG1831136
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/11/2022 22:51	WG1831136
Dichlorodifluoromethane	U		0.0327	0.100	1	03/11/2022 22:51	WG1831136
1,1-Dichloroethane	U		0.0230	0.100	1	03/11/2022 22:51	WG1831136
1,2-Dichloroethane	U		0.0190	0.100	1	03/11/2022 22:51	WG1831136
1,1-Dichloroethene	U		0.0200	0.100	1	03/11/2022 22:51	WG1831136
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/11/2022 22:51	WG1831136
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/11/2022 22:51	WG1831136
1,2-Dichloropropane	U		0.0508	0.200	1	03/11/2022 22:51	WG1831136



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/11/2022 22:51	WG1831136
1,3-Dichloropropane	U		0.0700	0.200	1	03/11/2022 22:51	WG1831136
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/11/2022 22:51	WG1831136
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/11/2022 22:51	WG1831136
2,2-Dichloropropane	U		0.0317	0.100	1	03/11/2022 22:51	WG1831136
Di-isopropyl ether	U		0.0140	0.0400	1	03/11/2022 22:51	WG1831136
Ethylbenzene	U		0.0212	0.100	1	03/11/2022 22:51	WG1831136
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/11/2022 22:51	WG1831136
Isopropylbenzene	U		0.0345	0.100	1	03/11/2022 22:51	WG1831136
p-Isopropyltoluene	U		0.0932	0.200	1	03/11/2022 22:51	WG1831136
2-Butanone (MEK)	U		0.500	1.00	1	03/11/2022 22:51	WG1831136
Methylene Chloride	U		0.265	1.00	1	03/11/2022 22:51	WG1831136
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/11/2022 22:51	WG1831136
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/11/2022 22:51	WG1831136
Naphthalene	U		0.124	0.500	1	03/11/2022 22:51	WG1831136
n-Propylbenzene	U		0.0472	0.200	1	03/11/2022 22:51	WG1831136
Styrene	U		0.109	0.500	1	03/11/2022 22:51	WG1831136
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/11/2022 22:51	WG1831136
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/11/2022 22:51	WG1831136
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/11/2022 22:51	WG1831136
Tetrachloroethene	U	J4	0.0280	0.100	1	03/11/2022 22:51	WG1831136
Toluene	U		0.0500	0.200	1	03/11/2022 22:51	WG1831136
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/11/2022 22:51	WG1831136
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/11/2022 22:51	WG1831136
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/11/2022 22:51	WG1831136
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/11/2022 22:51	WG1831136
Trichloroethene	U		0.0160	0.0400	1	03/11/2022 22:51	WG1831136
Trichlorofluoromethane	U		0.0200	0.100	1	03/11/2022 22:51	WG1831136
1,2,3-Trichloropropane	U		0.204	0.500	1	03/11/2022 22:51	WG1831136
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/11/2022 22:51	WG1831136
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/11/2022 22:51	WG1831136
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/11/2022 22:51	WG1831136
Vinyl chloride	U		0.0273	0.100	1	03/11/2022 22:51	WG1831136
Xylenes, Total	U		0.191	0.260	1	03/11/2022 22:51	WG1831136
Ethyl Ether	U		0.0170	0.100	1	03/11/2022 22:51	WG1831136
Tetrahydrofuran	0.764		0.0900	0.500	1	03/17/2022 01:57	WG1833553
Iodomethane	U		0.242	0.500	1	03/11/2022 22:51	WG1831136
Allyl chloride	U		0.580	1.00	1	03/11/2022 22:51	WG1831136
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/11/2022 22:51	WG1831136
(S) Toluene-d8	109			75.0-131		03/11/2022 22:51	WG1831136
(S) Toluene-d8	101			75.0-131		03/17/2022 01:57	WG1833553
(S) 4-Bromofluorobenzene	103			67.0-138		03/11/2022 22:51	WG1831136
(S) 4-Bromofluorobenzene	99.8			67.0-138		03/17/2022 01:57	WG1833553
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/11/2022 22:51	WG1831136
(S) 1,2-Dichloroethane-d4	112			70.0-130		03/17/2022 01:57	WG1833553

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	1790	J	594	5000	1	03/13/2022 12:55	WG1831541

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	39200		102	1000	1	03/15/2022 21:20	WG1832860

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	30900		28.1	100	1	03/16/2022 13:37	WG1832281
Manganese	5100		0.704	5.00	1	03/16/2022 13:37	WG1832281

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	23000		2.87	6.78	10	03/17/2022 12:15	WG1833564
Ethane	197		0.296	1.29	1	03/16/2022 12:20	WG1833106
Ethene	284		0.422	1.27	1	03/16/2022 12:20	WG1833106

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	03/11/2022 23:10	WG1831136
Acrylonitrile	U		0.0760	0.500	1	03/11/2022 23:10	WG1831136
Benzene	0.142		0.0160	0.0400	1	03/11/2022 23:10	WG1831136
Bromobenzene	U		0.0420	0.500	1	03/11/2022 23:10	WG1831136
Bromodichloromethane	U		0.0315	0.100	1	03/11/2022 23:10	WG1831136
Bromoform	U		0.239	1.00	1	03/11/2022 23:10	WG1831136
Bromomethane	U		0.148	0.500	1	03/11/2022 23:10	WG1831136
n-Butylbenzene	U		0.153	0.500	1	03/11/2022 23:10	WG1831136
sec-Butylbenzene	U		0.101	0.500	1	03/11/2022 23:10	WG1831136
tert-Butylbenzene	U		0.0620	0.200	1	03/11/2022 23:10	WG1831136
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/11/2022 23:10	WG1831136
Chlorobenzene	U		0.0229	0.100	1	03/11/2022 23:10	WG1831136
Chlorodibromomethane	U		0.0180	0.100	1	03/11/2022 23:10	WG1831136
Chloroethane	U		0.0432	0.200	1	03/11/2022 23:10	WG1831136
Chloroform	U		0.0166	0.100	1	03/11/2022 23:10	WG1831136
Chloromethane	U		0.0556	0.500	1	03/11/2022 23:10	WG1831136
2-Chlorotoluene	U		0.0368	0.100	1	03/11/2022 23:10	WG1831136
4-Chlorotoluene	U		0.0452	0.200	1	03/11/2022 23:10	WG1831136
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/11/2022 23:10	WG1831136
1,2-Dibromoethane	U		0.0210	0.100	1	03/11/2022 23:10	WG1831136
Dibromomethane	U		0.0400	0.200	1	03/11/2022 23:10	WG1831136
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/11/2022 23:10	WG1831136
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/11/2022 23:10	WG1831136
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/11/2022 23:10	WG1831136
Dichlorodifluoromethane	U		0.0327	0.100	1	03/11/2022 23:10	WG1831136
1,1-Dichloroethane	U		0.0230	0.100	1	03/11/2022 23:10	WG1831136
1,2-Dichloroethane	U		0.0190	0.100	1	03/11/2022 23:10	WG1831136
1,1-Dichloroethene	1.33		0.0200	0.100	1	03/11/2022 23:10	WG1831136
cis-1,2-Dichloroethene	815		2.76	10.0	100	03/17/2022 03:13	WG1833553
trans-1,2-Dichloroethene	8.54		0.0572	0.200	1	03/11/2022 23:10	WG1831136
1,2-Dichloropropane	U		0.0508	0.200	1	03/11/2022 23:10	WG1831136

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/11/2022 23:10	WG1831136
1,3-Dichloropropane	U		0.0700	0.200	1	03/11/2022 23:10	WG1831136
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/11/2022 23:10	WG1831136
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/11/2022 23:10	WG1831136
2,2-Dichloropropane	U		0.0317	0.100	1	03/11/2022 23:10	WG1831136
Di-isopropyl ether	U		0.0140	0.0400	1	03/11/2022 23:10	WG1831136
Ethylbenzene	U		0.0212	0.100	1	03/11/2022 23:10	WG1831136
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/11/2022 23:10	WG1831136
Isopropylbenzene	U		0.0345	0.100	1	03/11/2022 23:10	WG1831136
p-Isopropyltoluene	U		0.0932	0.200	1	03/11/2022 23:10	WG1831136
2-Butanone (MEK)	U		0.500	1.00	1	03/11/2022 23:10	WG1831136
Methylene Chloride	U		0.265	1.00	1	03/11/2022 23:10	WG1831136
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/11/2022 23:10	WG1831136
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/11/2022 23:10	WG1831136
Naphthalene	U		0.124	0.500	1	03/11/2022 23:10	WG1831136
n-Propylbenzene	U		0.0472	0.200	1	03/11/2022 23:10	WG1831136
Styrene	U		0.109	0.500	1	03/11/2022 23:10	WG1831136
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/11/2022 23:10	WG1831136
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/11/2022 23:10	WG1831136
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/11/2022 23:10	WG1831136
Tetrachloroethene	U	J4	0.0280	0.100	1	03/11/2022 23:10	WG1831136
Toluene	0.268		0.0500	0.200	1	03/11/2022 23:10	WG1831136
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/11/2022 23:10	WG1831136
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/11/2022 23:10	WG1831136
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/11/2022 23:10	WG1831136
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/11/2022 23:10	WG1831136
Trichloroethene	0.146	C5	0.0160	0.0400	1	03/11/2022 23:10	WG1831136
Trichlorofluoromethane	U		0.0200	0.100	1	03/11/2022 23:10	WG1831136
1,2,3-Trichloropropane	U		0.204	0.500	1	03/11/2022 23:10	WG1831136
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/11/2022 23:10	WG1831136
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/11/2022 23:10	WG1831136
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/11/2022 23:10	WG1831136
Vinyl chloride	1240		2.73	10.0	100	03/17/2022 03:13	WG1833553
Xylenes, Total	U		0.191	0.260	1	03/11/2022 23:10	WG1831136
Ethyl Ether	U		0.0170	0.100	1	03/11/2022 23:10	WG1831136
Tetrahydrofuran	U		9.00	50.0	100	03/17/2022 03:13	WG1833553
Iodomethane	U		0.242	0.500	1	03/11/2022 23:10	WG1831136
Allyl chloride	U		0.580	1.00	1	03/11/2022 23:10	WG1831136
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/11/2022 23:10	WG1831136
(S) Toluene-d8	108			75.0-131		03/11/2022 23:10	WG1831136
(S) Toluene-d8	100			75.0-131		03/17/2022 03:13	WG1833553
(S) 4-Bromofluorobenzene	102			67.0-138		03/11/2022 23:10	WG1831136
(S) 4-Bromofluorobenzene	97.5			67.0-138		03/17/2022 03:13	WG1833553
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/11/2022 23:10	WG1831136
(S) 1,2-Dichloroethane-d4	109			70.0-130		03/17/2022 03:13	WG1833553

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	U		594	5000	1	03/13/2022 13:11	WG1831541

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	253	B J P1	102	1000	1	03/15/2022 21:33	WG1832860

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	50.2	J	28.1	100	1	03/16/2022 13:40	WG1832281
Manganese	3.82	B J	0.704	5.00	1	03/16/2022 13:40	WG1832281

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	U		0.287	0.678	1	03/16/2022 12:27	WG1833106
Ethane	U		0.296	1.29	1	03/16/2022 12:27	WG1833106
Ethene	U		0.422	1.27	1	03/16/2022 12:27	WG1833106

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	3.02	C5 J4	0.548	1.00	1	03/11/2022 17:48	WG1831136
Acrylonitrile	U		0.0760	0.500	1	03/11/2022 17:48	WG1831136
Benzene	U		0.0160	0.0400	1	03/11/2022 17:48	WG1831136
Bromobenzene	U		0.0420	0.500	1	03/11/2022 17:48	WG1831136
Bromodichloromethane	0.199		0.0315	0.100	1	03/11/2022 17:48	WG1831136
Bromoform	U		0.239	1.00	1	03/11/2022 17:48	WG1831136
Bromomethane	U		0.148	0.500	1	03/11/2022 17:48	WG1831136
n-Butylbenzene	U		0.153	0.500	1	03/11/2022 17:48	WG1831136
sec-Butylbenzene	U		0.101	0.500	1	03/11/2022 17:48	WG1831136
tert-Butylbenzene	U		0.0620	0.200	1	03/11/2022 17:48	WG1831136
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/11/2022 17:48	WG1831136
Chlorobenzene	U		0.0229	0.100	1	03/11/2022 17:48	WG1831136
Chlorodibromomethane	0.118		0.0180	0.100	1	03/11/2022 17:48	WG1831136
Chloroethane	U		0.0432	0.200	1	03/11/2022 17:48	WG1831136
Chloroform	0.153		0.0166	0.100	1	03/11/2022 17:48	WG1831136
Chloromethane	U		0.0556	0.500	1	03/11/2022 17:48	WG1831136
2-Chlorotoluene	U		0.0368	0.100	1	03/11/2022 17:48	WG1831136
4-Chlorotoluene	U		0.0452	0.200	1	03/11/2022 17:48	WG1831136
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/11/2022 17:48	WG1831136
1,2-Dibromoethane	U		0.0210	0.100	1	03/11/2022 17:48	WG1831136
Dibromomethane	U		0.0400	0.200	1	03/11/2022 17:48	WG1831136
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/11/2022 17:48	WG1831136
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/11/2022 17:48	WG1831136
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/11/2022 17:48	WG1831136
Dichlorodifluoromethane	U		0.0327	0.100	1	03/11/2022 17:48	WG1831136
1,1-Dichloroethane	U		0.0230	0.100	1	03/11/2022 17:48	WG1831136
1,2-Dichloroethane	U		0.0190	0.100	1	03/11/2022 17:48	WG1831136
1,1-Dichloroethene	U		0.0200	0.100	1	03/11/2022 17:48	WG1831136
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/11/2022 17:48	WG1831136
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/11/2022 17:48	WG1831136
1,2-Dichloropropane	U		0.0508	0.200	1	03/11/2022 17:48	WG1831136

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	03/11/2022 17:48	WG1831136
1,3-Dichloropropane	U		0.0700	0.200	1	03/11/2022 17:48	WG1831136
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/11/2022 17:48	WG1831136
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/11/2022 17:48	WG1831136
2,2-Dichloropropane	U		0.0317	0.100	1	03/11/2022 17:48	WG1831136
Di-isopropyl ether	U		0.0140	0.0400	1	03/11/2022 17:48	WG1831136
Ethylbenzene	U		0.0212	0.100	1	03/11/2022 17:48	WG1831136
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/11/2022 17:48	WG1831136
Isopropylbenzene	U		0.0345	0.100	1	03/11/2022 17:48	WG1831136
p-Isopropyltoluene	U		0.0932	0.200	1	03/11/2022 17:48	WG1831136
2-Butanone (MEK)	1.04	C5	0.500	1.00	1	03/11/2022 17:48	WG1831136
Methylene Chloride	U		0.265	1.00	1	03/11/2022 17:48	WG1831136
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/11/2022 17:48	WG1831136
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/11/2022 17:48	WG1831136
Naphthalene	U		0.124	0.500	1	03/11/2022 17:48	WG1831136
n-Propylbenzene	U		0.0472	0.200	1	03/11/2022 17:48	WG1831136
Styrene	U		0.109	0.500	1	03/11/2022 17:48	WG1831136
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/11/2022 17:48	WG1831136
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/11/2022 17:48	WG1831136
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/11/2022 17:48	WG1831136
Tetrachloroethene	U	J4	0.0280	0.100	1	03/11/2022 17:48	WG1831136
Toluene	U		0.0500	0.200	1	03/11/2022 17:48	WG1831136
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/11/2022 17:48	WG1831136
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/11/2022 17:48	WG1831136
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/11/2022 17:48	WG1831136
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/11/2022 17:48	WG1831136
Trichloroethene	U		0.0160	0.0400	1	03/11/2022 17:48	WG1831136
Trichlorofluoromethane	U		0.0200	0.100	1	03/11/2022 17:48	WG1831136
1,2,3-Trichloropropane	U		0.204	0.500	1	03/11/2022 17:48	WG1831136
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/11/2022 17:48	WG1831136
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/11/2022 17:48	WG1831136
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/11/2022 17:48	WG1831136
Vinyl chloride	U		0.0273	0.100	1	03/11/2022 17:48	WG1831136
Xylenes, Total	U		0.191	0.260	1	03/11/2022 17:48	WG1831136
Ethyl Ether	U		0.0170	0.100	1	03/11/2022 17:48	WG1831136
Tetrahydrofuran	U		0.0900	0.500	1	03/11/2022 17:48	WG1831136
Iodomethane	U		0.242	0.500	1	03/11/2022 17:48	WG1831136
Allyl chloride	U		0.580	1.00	1	03/11/2022 17:48	WG1831136
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/11/2022 17:48	WG1831136
(S) Toluene-d8	111			75.0-131		03/11/2022 17:48	WG1831136
(S) 4-Bromofluorobenzene	98.5			67.0-138		03/11/2022 17:48	WG1831136
(S) 1,2-Dichloroethane-d4	102			70.0-130		03/11/2022 17:48	WG1831136

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	1220	J	594	5000	1	03/13/2022 13:27	WG1831541

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	7700		102	1000	1	03/15/2022 22:47	WG1832860

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	7810		28.1	100	1	03/16/2022 13:44	WG1832281
Manganese	3310		0.704	5.00	1	03/16/2022 13:44	WG1832281

Volatile Organic Compounds (GC) by Method NWTPHGX

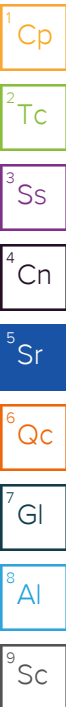
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	48.0	B_J	31.6	100	1	03/16/2022 14:57	WG1833019
(S) a,a,a-Trifluorotoluene(FID)	109			78.0-120		03/16/2022 14:57	WG1833019

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	1180		0.287	0.678	1	03/16/2022 12:30	WG1833106
Ethane	1.25	J	0.296	1.29	1	03/16/2022 12:30	WG1833106
Ethene	U		0.422	1.27	1	03/16/2022 12:30	WG1833106

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	03/11/2022 23:29	WG1831136
Acrylonitrile	U		0.0760	0.500	1	03/11/2022 23:29	WG1831136
Benzene	U		0.0160	0.0400	1	03/11/2022 23:29	WG1831136
Bromobenzene	U		0.0420	0.500	1	03/11/2022 23:29	WG1831136
Bromodichloromethane	U		0.0315	0.100	1	03/11/2022 23:29	WG1831136
Bromoform	U		0.239	1.00	1	03/11/2022 23:29	WG1831136
Bromomethane	U		0.148	0.500	1	03/11/2022 23:29	WG1831136
n-Butylbenzene	U		0.153	0.500	1	03/11/2022 23:29	WG1831136
sec-Butylbenzene	U		0.101	0.500	1	03/11/2022 23:29	WG1831136
tert-Butylbenzene	U		0.0620	0.200	1	03/11/2022 23:29	WG1831136
Carbon tetrachloride	U	J4	0.0432	0.200	1	03/11/2022 23:29	WG1831136
Chlorobenzene	U		0.0229	0.100	1	03/11/2022 23:29	WG1831136
Chlorodibromomethane	U		0.0180	0.100	1	03/11/2022 23:29	WG1831136
Chloroethane	U		0.0432	0.200	1	03/11/2022 23:29	WG1831136
Chloroform	U		0.0166	0.100	1	03/11/2022 23:29	WG1831136
Chloromethane	U		0.0556	0.500	1	03/11/2022 23:29	WG1831136
2-Chlorotoluene	U		0.0368	0.100	1	03/11/2022 23:29	WG1831136
4-Chlorotoluene	U		0.0452	0.200	1	03/11/2022 23:29	WG1831136
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	03/11/2022 23:29	WG1831136
1,2-Dibromoethane	U		0.0210	0.100	1	03/11/2022 23:29	WG1831136
Dibromomethane	U		0.0400	0.200	1	03/11/2022 23:29	WG1831136
1,2-Dichlorobenzene	U		0.0580	0.200	1	03/11/2022 23:29	WG1831136
1,3-Dichlorobenzene	U		0.0680	0.200	1	03/11/2022 23:29	WG1831136



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dichlorobenzene	U		0.0788	0.200	1	03/11/2022 23:29	WG1831136
Dichlorodifluoromethane	U		0.0327	0.100	1	03/11/2022 23:29	WG1831136
1,1-Dichloroethane	U		0.0230	0.100	1	03/11/2022 23:29	WG1831136
1,2-Dichloroethane	U		0.0190	0.100	1	03/11/2022 23:29	WG1831136
1,1-Dichloroethene	U		0.0200	0.100	1	03/11/2022 23:29	WG1831136
cis-1,2-Dichloroethene	U		0.0276	0.100	1	03/17/2022 02:16	WG1833553
trans-1,2-Dichloroethene	U		0.0572	0.200	1	03/11/2022 23:29	WG1831136
1,2-Dichloropropane	U		0.0508	0.200	1	03/11/2022 23:29	WG1831136
1,1-Dichloropropene	U		0.0280	0.100	1	03/11/2022 23:29	WG1831136
1,3-Dichloropropane	U		0.0700	0.200	1	03/11/2022 23:29	WG1831136
cis-1,3-Dichloropropene	U		0.0271	0.100	1	03/11/2022 23:29	WG1831136
trans-1,3-Dichloropropene	U		0.0612	0.200	1	03/11/2022 23:29	WG1831136
2,2-Dichloropropane	U		0.0317	0.100	1	03/11/2022 23:29	WG1831136
Di-isopropyl ether	U		0.0140	0.0400	1	03/11/2022 23:29	WG1831136
Ethylbenzene	U		0.0212	0.100	1	03/11/2022 23:29	WG1831136
Hexachloro-1,3-butadiene	U		0.508	1.00	1	03/11/2022 23:29	WG1831136
Isopropylbenzene	U		0.0345	0.100	1	03/11/2022 23:29	WG1831136
p-Isopropyltoluene	U		0.0932	0.200	1	03/11/2022 23:29	WG1831136
2-Butanone (MEK)	U		0.500	1.00	1	03/11/2022 23:29	WG1831136
Methylene Chloride	U		0.265	1.00	1	03/11/2022 23:29	WG1831136
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	03/11/2022 23:29	WG1831136
Methyl tert-butyl ether	U		0.0118	0.0400	1	03/11/2022 23:29	WG1831136
Naphthalene	U		0.124	0.500	1	03/11/2022 23:29	WG1831136
n-Propylbenzene	U		0.0472	0.200	1	03/11/2022 23:29	WG1831136
Styrene	U		0.109	0.500	1	03/11/2022 23:29	WG1831136
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	03/11/2022 23:29	WG1831136
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	03/11/2022 23:29	WG1831136
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	03/11/2022 23:29	WG1831136
Tetrachloroethene	U	J4	0.0280	0.100	1	03/11/2022 23:29	WG1831136
Toluene	U		0.0500	0.200	1	03/11/2022 23:29	WG1831136
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	03/11/2022 23:29	WG1831136
1,2,4-Trichlorobenzene	U		0.193	0.500	1	03/11/2022 23:29	WG1831136
1,1,1-Trichloroethane	U		0.0110	0.100	1	03/11/2022 23:29	WG1831136
1,1,2-Trichloroethane	U		0.0353	0.100	1	03/11/2022 23:29	WG1831136
Trichloroethene	U		0.0160	0.0400	1	03/11/2022 23:29	WG1831136
Trichlorofluoromethane	U		0.0200	0.100	1	03/11/2022 23:29	WG1831136
1,2,3-Trichloropropane	U		0.204	0.500	1	03/11/2022 23:29	WG1831136
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	03/11/2022 23:29	WG1831136
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	03/11/2022 23:29	WG1831136
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	03/11/2022 23:29	WG1831136
Vinyl chloride	U		0.0273	0.100	1	03/17/2022 02:16	WG1833553
Xylenes, Total	U		0.191	0.260	1	03/11/2022 23:29	WG1831136
Ethyl Ether	U		0.0170	0.100	1	03/11/2022 23:29	WG1831136
Tetrahydrofuran	U		0.0900	0.500	1	03/11/2022 23:29	WG1831136
Iodomethane	U		0.242	0.500	1	03/11/2022 23:29	WG1831136
Allyl chloride	U		0.580	1.00	1	03/11/2022 23:29	WG1831136
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	03/11/2022 23:29	WG1831136
(S) Toluene-d8	108			75.0-131		03/11/2022 23:29	WG1831136
(S) Toluene-d8	102			75.0-131		03/17/2022 02:16	WG1833553
(S) 4-Bromofluorobenzene	101			67.0-138		03/11/2022 23:29	WG1831136
(S) 4-Bromofluorobenzene	97.1			67.0-138		03/17/2022 02:16	WG1833553
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/11/2022 23:29	WG1831136
(S) 1,2-Dichloroethane-d4	112			70.0-130		03/17/2022 02:16	WG1833553

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3769500-1 03/12/22 09:57

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Sulfate	U		594	5000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1470201-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1470201-01 03/12/22 14:11 • (DUP) R3769500-3 03/12/22 15:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	2310	2360	1	1.81	U	15

L1470681-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1470681-05 03/12/22 19:07 • (DUP) R3769500-6 03/12/22 19:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	122000	122000	5	0.519		15

Laboratory Control Sample (LCS)

(LCS) R3769500-2 03/12/22 10:13

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Sulfate	40000	39600	99.0	80.0-120	

L1470201-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1470201-01 03/12/22 14:11 • (MS) R3769500-4 03/12/22 15:17 • (MSD) R3769500-5 03/12/22 15:33

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Sulfate	50000	2310	53000	53900	101	103	1	80.0-120			1.65	15

L1470681-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1470681-07 03/12/22 19:56 • (MS) R3769500-7 03/12/22 20:29

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Sulfate	50000	83200	133000	99.3	1	80.0-120	E

Method Blank (MB)

(MB) R3769521-1 03/13/22 10:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Sulfate	U		594	5000

¹Cp

²Tc

³Ss

L1470201-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1470201-07 03/13/22 11:50 • (DUP) R3769521-3 03/13/22 12:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	27200	26900	1	0.919		15

⁴Cn

⁵Sr

Laboratory Control Sample (LCS)

(LCS) R3769521-2 03/13/22 11:09

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Sulfate	40000	40200	100	80.0-120	

⁶Qc

⁷Gl

⁸Al

L1470201-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1470201-07 03/13/22 11:50 • (MS) R3769521-4 03/13/22 12:22 • (MSD) R3769521-5 03/13/22 12:38

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Sulfate	50000	27200	79300	79300	104	104	1	80.0-120			0.0155	15

⁹Sc

Method Blank (MB)

(MB) R3769988-1 03/14/22 21:19

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Sulfate	U		594	5000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1470102-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1470102-20 03/14/22 23:31 • (DUP) R3769988-3 03/14/22 23:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	U	U	1	0.000		15

L1470953-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1470953-02 03/15/22 08:10 • (DUP) R3769988-5 03/15/22 08:28

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	49200	48600	1	1.13		15

Laboratory Control Sample (LCS)

(LCS) R3769988-2 03/14/22 21:36

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Sulfate	40000	43000	108	80.0-120	

L1470102-20 Original Sample (OS) • Matrix Spike (MS)

(OS) L1470102-20 03/14/22 23:31 • (MS) R3769988-4 03/15/22 00:07

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Sulfate	50000	U	49000	97.9	1	80.0-120	

L1470953-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1470953-02 03/15/22 08:10 • (MS) R3769988-6 03/15/22 08:46 • (MSD) R3769988-7 03/15/22 09:40

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Sulfate	50000	49200	96400	96300	94.4	94.2	1	80.0-120			0.138	15

Method Blank (MB)

(MB) R3770191-2 03/15/22 09:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	586	↓	102	1000

1 Cp

2 Tc

3 Ss

L1470201-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1470201-05 03/15/22 21:18 • (DUP) R3770191-8 03/15/22 21:34

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC	5680	5380	1	5.42		20

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3770191-1 03/15/22 09:18

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC	75000	75400	100	85.0-115	

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3770315-2 03/15/22 09:43

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	346	↓	102	1000

L1470489-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1470489-01 03/16/22 01:07 • (DUP) R3770315-8 03/16/22 01:21

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	3690	3560	1	3.67		20

Laboratory Control Sample (LCS)

(LCS) R3770315-1 03/15/22 09:29

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	81300	108	85.0-115	

L1470201-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1470201-06 03/15/22 19:52 • (MS) R3770315-3 03/15/22 20:16 • (MSD) R3770315-4 03/15/22 20:39

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	3580	57600	58800	108	111	1	80.0-120			2.10	20

L1470201-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1470201-10 03/15/22 22:47 • (MS) R3770315-6 03/15/22 23:13 • (MSD) R3770315-7 03/15/22 23:39

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	7700	62500	62800	110	110	1	80.0-120			0.559	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3770410-1 03/16/22 11:45

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Iron	U		28.1	100
Manganese	0.752	↓	0.704	5.00

Laboratory Control Sample (LCS)

(LCS) R3770410-2 03/16/22 11:48

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	5000	4960	99.3	80.0-120	
Manganese	50.0	50.1	100	80.0-120	

L1470199-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1470199-01 03/16/22 11:52 • (MS) R3770410-4 03/16/22 11:58 • (MSD) R3770410-5 03/16/22 12:01

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Iron	5000	322	5000	5000	93.5	93.6	1	75.0-125			0.180	20
Manganese	50.0	70.2	115	115	89.4	89.2	1	75.0-125			0.0864	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3770814-2 03/16/22 05:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	51.0	↓	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3770814-1 03/16/22 04:02

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5290	96.2	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			82.7	78.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3770446-2 03/16/22 11:23

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1470192-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1470192-06 03/16/22 11:55 • (DUP) R3770446-3 03/16/22 11:58

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	U	U	1	0.000		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1470201-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1470201-10 03/16/22 12:30 • (DUP) R3770446-4 03/16/22 13:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	1180	1630	1	32.0		20
Ethane	1.25	1.06	1	16.5	↓	20
Ethene	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3770446-1 03/16/22 11:20 • (LCSD) R3770446-5 03/16/22 13:43

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	67.2	68.3	99.1	101	85.0-115			1.62	20
Ethane	129	122	123	94.6	95.3	85.0-115			0.816	20
Ethene	127	123	123	96.9	96.9	85.0-115			0.000	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3771053-2 03/17/22 12:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Methane	U		0.287	0.678

L1471749-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1471749-02 03/17/22 12:48 • (DUP) R3771053-3 03/17/22 13:58

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Methane	9.90	9.34	1	5.82		20

L1471932-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1471932-01 03/17/22 14:47 • (DUP) R3771053-4 03/17/22 15:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Methane	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3771053-1 03/17/22 11:58 • (LCSD) R3771053-7 03/17/22 15:29

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Methane	67.8	67.9	73.5	100	108	85.0-115			7.92	20

L1471749-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1471749-09 03/17/22 14:23 • (MS) R3771053-5 03/17/22 15:04 • (MSD) R3771053-6 03/17/22 15:07

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Methane	67.8	173	294	304	178	193	1	85.0-115	J5	J5	3.34	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3770502-3 03/11/22 14:32

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00
Isopropylbenzene	U		0.0345	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3770502-3 03/11/22 14:32

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Ethyl ether	U		0.0170	0.100
Tetrahydrofuran	U		0.0900	0.500
Iodomethane	U		0.242	0.500
Allyl Chloride	U		0.580	1.00
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
(S) Toluene-d8	108			75.0-131
(S) 4-Bromofluorobenzene	104			67.0-138
(S) 1,2-Dichloroethane-d4	100			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3770502-1 03/11/22 13:16 • (LCSD) R3770502-2 03/11/22 13:35

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	49.8	51.0	199	204	10.0-160	J4	J4	2.38	31
Acrylonitrile	25.0	35.8	38.1	143	152	45.0-153			6.22	22
Benzene	5.00	4.99	4.92	99.8	98.4	70.0-123			1.41	20
Bromobenzene	5.00	5.33	4.98	107	99.6	73.0-121			6.79	20
Bromodichloromethane	5.00	5.28	5.12	106	102	73.0-121			3.08	20
Bromoform	5.00	5.96	6.00	119	120	64.0-132			0.669	20
Bromomethane	5.00	6.23	5.96	125	119	56.0-147			4.43	20
n-Butylbenzene	5.00	4.35	4.18	87.0	83.6	68.0-135			3.99	20
sec-Butylbenzene	5.00	4.72	4.66	94.4	93.2	74.0-130			1.28	20
tert-Butylbenzene	5.00	4.77	4.66	95.4	93.2	75.0-127			2.33	20
Carbon tetrachloride	5.00	6.55	6.44	131	129	66.0-128	J4	J4	1.69	20
Chlorobenzene	5.00	5.74	5.57	115	111	76.0-128			3.01	20
Chlorodibromomethane	5.00	5.82	5.97	116	119	74.0-127			2.54	20
Chloroethane	5.00	6.61	6.00	132	120	61.0-134			9.67	20
Chloroform	5.00	5.33	5.05	107	101	72.0-123			5.39	20
Chloromethane	5.00	5.92	5.77	118	115	51.0-138			2.57	20
2-Chlorotoluene	5.00	5.30	4.95	106	99.0	75.0-124			6.83	20
4-Chlorotoluene	5.00	4.24	4.18	84.8	83.6	75.0-124			1.43	20
1,2-Dibromo-3-Chloropropane	5.00	5.20	5.94	104	119	59.0-130			13.3	20
1,2-Dibromoethane	5.00	5.86	5.61	117	112	74.0-128			4.36	20
Dibromomethane	5.00	5.74	5.74	115	115	75.0-122			0.000	20
1,2-Dichlorobenzene	5.00	5.39	5.13	108	103	76.0-124			4.94	20
1,3-Dichlorobenzene	5.00	5.50	5.29	110	106	76.0-125			3.89	20
1,4-Dichlorobenzene	5.00	4.98	4.84	99.6	96.8	77.0-121			2.85	20
Dichlorodifluoromethane	5.00	5.53	4.77	111	95.4	43.0-156			14.8	20
1,1-Dichloroethane	5.00	5.31	5.10	106	102	70.0-127			4.03	20
1,2-Dichloroethane	5.00	5.50	5.25	110	105	65.0-131			4.65	20
1,1-Dichloroethene	5.00	5.59	5.45	112	109	65.0-131			2.54	20
cis-1,2-Dichloroethene	5.00	5.37	5.08	107	102	73.0-125			5.55	20
trans-1,2-Dichloroethene	5.00	5.63	5.40	113	108	71.0-125			4.17	20
1,2-Dichloropropane	5.00	5.09	5.04	102	101	74.0-125			0.987	20
1,1-Dichloropropene	5.00	5.53	5.25	111	105	73.0-125			5.19	20
1,3-Dichloropropane	5.00	5.03	5.21	101	104	80.0-125			3.52	20
cis-1,3-Dichloropropene	5.00	5.17	4.92	103	98.4	76.0-127			4.96	20
trans-1,3-Dichloropropene	5.00	5.17	4.78	103	95.6	73.0-127			7.84	20
2,2-Dichloropropane	5.00	6.38	6.25	128	125	59.0-135			2.06	20
Di-isopropyl ether	5.00	5.35	5.45	107	109	60.0-136			1.85	20
Ethylbenzene	5.00	5.47	5.36	109	107	74.0-126			2.03	20
Hexachloro-1,3-butadiene	5.00	6.69	6.38	134	128	57.0-150			4.74	20
Isopropylbenzene	5.00	5.59	5.61	112	112	72.0-127			0.357	20

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3770502-1 03/11/22 13:16 • (LCSD) R3770502-2 03/11/22 13:35

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
p-Isopropyltoluene	5.00	4.96	4.69	99.2	93.8	72.0-133			5.60	20
2-Butanone (MEK)	25.0	36.3	32.7	145	131	30.0-160			10.4	24
Methylene Chloride	5.00	5.60	5.45	112	109	68.0-123			2.71	20
4-Methyl-2-pentanone (MIBK)	25.0	28.1	28.5	112	114	56.0-143			1.41	20
Methyl tert-butyl ether	5.00	6.15	6.37	123	127	66.0-132			3.51	20
Naphthalene	5.00	4.74	5.13	94.8	103	59.0-130			7.90	20
n-Propylbenzene	5.00	4.48	4.37	89.6	87.4	74.0-126			2.49	20
Styrene	5.00	4.97	4.83	99.4	96.6	72.0-127			2.86	20
1,1,1,2-Tetrachloroethane	5.00	6.01	6.42	120	128	74.0-129			6.60	20
1,1,2,2-Tetrachloroethane	5.00	4.45	4.38	89.0	87.6	68.0-128			1.59	20
1,1,2-Trichlorotrifluoroethane	5.00	5.73	5.58	115	112	61.0-139			2.65	20
Tetrachloroethene	5.00	6.83	6.61	137	132	70.0-136	J4		3.27	20
Toluene	5.00	5.27	5.16	105	103	75.0-121			2.11	20
1,2,3-Trichlorobenzene	5.00	5.49	5.87	110	117	59.0-139			6.69	20
1,2,4-Trichlorobenzene	5.00	5.79	5.66	116	113	62.0-137			2.27	20
1,1,1-Trichloroethane	5.00	6.18	6.16	124	123	69.0-126			0.324	20
1,1,2-Trichloroethane	5.00	5.36	5.33	107	107	78.0-123			0.561	20
Trichloroethene	5.00	6.22	6.16	124	123	76.0-126			0.969	20
Trichlorofluoromethane	5.00	5.99	5.28	120	106	61.0-142			12.6	20
1,2,3-Trichloropropane	5.00	5.08	5.08	102	102	67.0-129			0.000	20
1,2,4-Trimethylbenzene	5.00	4.58	4.44	91.6	88.8	70.0-126			3.10	20
1,2,3-Trimethylbenzene	5.00	4.62	4.60	92.4	92.0	74.0-124			0.434	20
1,3,5-Trimethylbenzene	5.00	4.69	4.56	93.8	91.2	73.0-127			2.81	20
Vinyl chloride	5.00	6.53	6.08	131	122	63.0-134			7.14	20
Xylenes, Total	15.0	16.8	16.4	112	109	72.0-127			2.41	20
Ethyl ether	5.00	5.56	5.47	111	109	64.0-137			1.63	20
Tetrahydrofuran	5.00	7.22	7.13	144	143	37.0-146			1.25	24
Iodomethane	25.0	31.9	30.4	128	122	74.0-134			4.82	20
Allyl chloride	25.0	28.9	27.6	116	110	70.0-131			4.60	20
trans-1,4-Dichloro-2-butene	5.00	4.18	4.06	83.6	81.2	45.0-143			2.91	20
(S) Toluene-d8				106	106	75.0-131				
(S) 4-Bromofluorobenzene				101	102	67.0-138				
(S) 1,2-Dichloroethane-d4				106	105	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1470151-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1470151-03 03/11/22 18:44 • (MS) R3770502-4 03/11/22 23:48 • (MSD) R3770502-5 03/12/22 00:07

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	2.72	45.5	48.3	171	182	1	10.0-160	J5	J5	5.97	40
Acrylonitrile	25.0	U	39.0	42.5	156	170	1	10.0-160		J5	8.59	40
Benzene	5.00	U	4.01	4.66	80.2	93.2	1	10.0-149			15.0	37
Bromobenzene	5.00	U	4.39	5.15	87.8	103	1	10.0-156			15.9	38
Bromodichloromethane	5.00	U	4.66	5.45	93.2	109	1	10.0-143			15.6	37
Bromoform	5.00	U	5.87	6.59	117	132	1	10.0-146			11.6	36
Bromomethane	5.00	U	4.62	5.61	92.4	112	1	10.0-149			19.4	38
n-Butylbenzene	5.00	U	3.54	4.16	70.8	83.2	1	10.0-160			16.1	40
sec-Butylbenzene	5.00	U	3.91	4.53	78.2	90.6	1	10.0-159			14.7	39
tert-Butylbenzene	5.00	U	3.86	4.70	77.2	94.0	1	10.0-156			19.6	39
Carbon tetrachloride	5.00	U	4.89	6.04	97.8	121	1	10.0-145			21.0	37
Chlorobenzene	5.00	U	4.77	5.63	95.4	113	1	10.0-152			16.5	39
Chlorodibromomethane	5.00	U	5.48	6.29	110	126	1	10.0-146			13.8	37
Chloroethane	5.00	U	4.68	5.81	93.6	116	1	10.0-146			21.5	40
Chloroform	5.00	U	4.41	5.06	88.2	101	1	10.0-146			13.7	37
Chloromethane	5.00	U	5.87	7.60	117	152	1	10.0-159			25.7	37
2-Chlorotoluene	5.00	U	4.30	5.15	86.0	103	1	10.0-159			18.0	38
4-Chlorotoluene	5.00	U	3.40	4.04	68.0	80.8	1	10.0-155			17.2	39
1,2-Dibromo-3-Chloropropane	5.00	U	5.93	6.43	119	129	1	10.0-151			8.09	39
1,2-Dibromoethane	5.00	U	5.48	6.16	110	123	1	10.0-148			11.7	34
Dibromomethane	5.00	U	5.30	6.04	106	121	1	10.0-147			13.1	35
1,2-Dichlorobenzene	5.00	U	4.57	5.57	91.4	111	1	10.0-155			19.7	37
1,3-Dichlorobenzene	5.00	U	4.48	5.35	89.6	107	1	10.0-153			17.7	38
1,4-Dichlorobenzene	5.00	U	4.12	4.92	82.4	98.4	1	10.0-151			17.7	38
Dichlorodifluoromethane	5.00	U	3.89	4.96	77.8	99.2	1	10.0-160			24.2	35
1,1-Dichloroethane	5.00	0.100	4.49	5.15	87.8	101	1	10.0-147			13.7	37
1,2-Dichloroethane	5.00	U	4.93	5.64	98.6	113	1	10.0-148			13.4	35
1,1-Dichloroethene	5.00	U	4.20	5.17	84.0	103	1	10.0-155			20.7	37
cis-1,2-Dichloroethene	5.00	2.84	7.04	7.84	84.0	100	1	10.0-149			10.8	37
trans-1,2-Dichloroethene	5.00	1.84	5.70	6.85	77.2	100	1	10.0-150			18.3	37
1,2-Dichloropropane	5.00	U	4.14	4.79	82.8	95.8	1	10.0-148			14.6	37
1,1-Dichloropropene	5.00	U	4.12	5.06	82.4	101	1	10.0-153			20.5	35
1,3-Dichloropropane	5.00	U	4.74	5.27	94.8	105	1	10.0-154			10.6	35
cis-1,3-Dichloropropene	5.00	U	4.21	4.82	84.2	96.4	1	10.0-151			13.5	37
trans-1,3-Dichloropropene	5.00	U	4.43	5.12	88.6	102	1	10.0-148			14.5	37
2,2-Dichloropropane	5.00	U	5.26	6.01	105	120	1	10.0-138			13.3	36
Di-isopropyl ether	5.00	U	4.86	5.51	97.2	110	1	10.0-147			12.5	36
Ethylbenzene	5.00	U	4.23	5.31	84.6	106	1	10.0-160			22.6	38
Hexachloro-1,3-butadiene	5.00	U	5.23	6.27	105	125	1	10.0-160			18.1	40
Isopropylbenzene	5.00	U	4.74	5.68	94.8	114	1	10.0-155			18.0	38

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1470151-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1470151-03 03/11/22 18:44 • (MS) R3770502-4 03/11/22 23:48 • (MSD) R3770502-5 03/12/22 00:07

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
p-Isopropyltoluene	5.00	U	4.02	4.72	80.4	94.4	1	10.0-160			16.0	40
2-Butanone (MEK)	25.0	U	37.9	36.5	152	146	1	10.0-160			3.76	40
Methylene Chloride	5.00	U	4.49	5.47	89.8	109	1	10.0-141			19.7	37
4-Methyl-2-pentanone (MIBK)	25.0	U	30.4	32.2	122	129	1	10.0-160			5.75	35
Methyl tert-butyl ether	5.00	U	5.92	6.68	118	134	1	11.0-147			12.1	35
Naphthalene	5.00	U	5.03	5.84	101	117	1	10.0-160			14.9	36
n-Propylbenzene	5.00	U	3.65	4.25	73.0	85.0	1	10.0-158			15.2	38
Styrene	5.00	U	4.12	5.05	82.4	101	1	10.0-160			20.3	40
1,1,1,2-Tetrachloroethane	5.00	U	5.59	6.55	112	131	1	10.0-149			15.8	39
1,1,2,2-Tetrachloroethane	5.00	U	4.50	5.06	90.0	101	1	10.0-160			11.7	35
1,1,2-Trichlorotrifluoroethane	5.00	U	4.59	5.47	91.8	109	1	10.0-160			17.5	36
Tetrachloroethene	5.00	U	5.25	6.36	105	127	1	10.0-156			19.1	39
Toluene	5.00	0.0830	4.28	5.04	83.9	99.1	1	10.0-156			16.3	38
1,2,3-Trichlorobenzene	5.00	U	5.54	6.09	111	122	1	10.0-160			9.46	40
1,2,4-Trichlorobenzene	5.00	U	5.22	5.89	104	118	1	10.0-160			12.1	40
1,1,1-Trichloroethane	5.00	0.251	5.14	6.24	97.8	120	1	10.0-144			19.3	35
1,1,2-Trichloroethane	5.00	U	5.00	5.62	100	112	1	10.0-160			11.7	35
Trichloroethene	5.00	1.12	5.76	7.06	92.8	119	1	10.0-156			20.3	38
Trichlorofluoromethane	5.00	U	4.52	5.43	90.4	109	1	10.0-160			18.3	40
1,2,3-Trichloropropane	5.00	U	4.76	5.64	95.2	113	1	10.0-156			16.9	35
1,2,4-Trimethylbenzene	5.00	U	3.70	4.34	74.0	86.8	1	10.0-160			15.9	36
1,2,3-Trimethylbenzene	5.00	U	3.99	4.59	79.8	91.8	1	10.0-160			14.0	36
1,3,5-Trimethylbenzene	5.00	U	3.91	4.59	78.2	91.8	1	10.0-160			16.0	38
Vinyl chloride	5.00	U	5.56	6.56	111	131	1	10.0-160			16.5	37
Xylenes, Total	15.0	U	13.6	16.3	90.7	109	1	10.0-160			18.1	38
Ethyl ether	5.00	U	4.91	5.62	98.2	112	1	10.0-160			13.5	31
Tetrahydrofuran	5.00	U	6.92	7.83	138	157	1	10.0-158			12.3	33
Iodomethane	25.0	U	23.7	28.2	94.8	113	1	10.0-160			17.3	38
Allyl chloride	25.0	U	20.5	23.6	82.0	94.4	1	10.0-160			14.1	30
trans-1,4-Dichloro-2-butene	5.00	U	3.01	3.46	60.2	69.2	1	10.0-152			13.9	36
(S) Toluene-d8					107	107		75.0-131				
(S) 4-Bromofluorobenzene					102	104		67.0-138				
(S) 1,2-Dichloroethane-d4					108	111		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3770806-3 03/16/22 22:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Vinyl chloride	U		0.0273	0.100
Tetrahydrofuran	U		0.0900	0.500
(S) Toluene-d8	101			75.0-131
(S) 4-Bromofluorobenzene	97.4			67.0-138
(S) 1,2-Dichloroethane-d4	110			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3770806-1 03/16/22 19:11 • (LCSD) R3770806-2 03/16/22 21:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
cis-1,2-Dichloroethene	5.00	4.78	4.71	95.6	94.2	73.0-125			1.48	20
Vinyl chloride	5.00	5.00	5.07	100	101	63.0-134			1.39	20
Tetrahydrofuran	5.00	5.94	5.71	119	114	37.0-146			3.95	24
(S) Toluene-d8				99.4	99.6	75.0-131				
(S) 4-Bromofluorobenzene				103	98.6	67.0-138				
(S) 1,2-Dichloroethane-d4				114	111	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

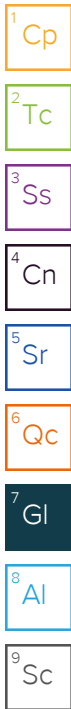
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C4	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Data is likely to show a low bias concerning the result.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address:
PES Environmental, Inc.- WA
 2101 Fourth Ave., Suite 1310
 Seattle, WA 98121

Billing Information:
 Attn: Accounts Payable
 2101 4th Avenue, Suite 1310
 Seattle, WA 98121

Analysis / Container / Preservative
 Chain of Custody Page 1 of 1
 Pres Chk
 CR CR

Pace
 PEOPLE ADVANCING SCIENCE
 MT JULIET, TN
 12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Report to:
Brian O'Neal/Bill Haldeman

Email To:
 Shannon.McKernan@nv5.com;brian.oneal@nv5.com

Project Description:
American Linen

City/State Collected: **Seattle, WA**
 Please Circle: PT MT CT ET

Phone: **206-529-3980**

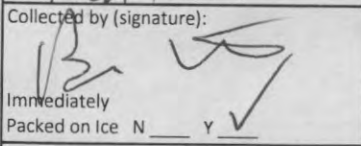
Client Project #
1713.001.02.501.05

Lab Project #
PESENVSWA-ALP

Collected by (print):
Ben Hecht

Site/Facility ID #

P.O. #

Collected by (signature):


Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day

Quote #
Standard

Immediately Packed on Ice N ___ Y

Date Results Needed
 No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	ALK 125mIHDPE-NoPres	FEG 250mIHDPE-HNO3	MNG 250mIHDPE-HNO3	RSK175LL 40mIAmb-HCl	TOC 250mIHDPE-HCl	V8260ULLC 40mIAmb-HCl
MW-967-030722 (3H)	Grab	GW		3/7/22	915	8	X	X	X	X	X
MW-124-030722 MW124-030722	Grab	GW			1025	3					X
MW102-030722	Grab				1215	8	X	X	X	X	X
GEL-MW-01-030722					1535	3					X
MW116-030722					1645	8	X	X	X	X	X
W-MW-01-030822	Grab			3/8/22	1012	8	X	X	X	X	X
MW-145R-030822					1200	8	X	X	X	X	X
MW-143-030822					1235	8	X	X	X	X	X
EQ-030822					1430	8	X	X	X	X	X
MW125-030822					1525	8	X	X	X	X	X

SDG # **1470201**
1129

Acctnum: **PESENVSWA**
 Template: **T202469**
 Prelogin: **P899982**
 PM: **546 - Jared Starkey**
 PB: **NS 1119122**

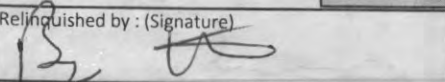
Shipped Via:
 Remarks Sample # (lab only)

Remarks
 Sample # (lab only)
 -01
 -02
 -03
 -04
 -05
 -06
 -07
 -08
 -09
 -10

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

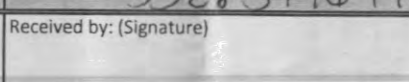
Remarks:
 pH ___ Temp ___
 Flow ___ Other ___
 Samples returned via:
 ___ UPS ___ FedEx ___ Courier
 Tracking # **5528594677SD**

Sample Receipt Checklist
 COC Seal Present/Intact: NP Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 If Applicable
 VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature)


Date: **3/8/22**

Time: **1630**

Received by: (Signature)


Trip Blank Received: Yes (No)
 HCL / MeOH
 TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

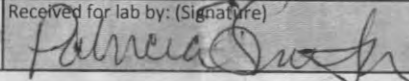
Temp: **9** °C
 Bottles Received: **0.6 to 0.6 73**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)


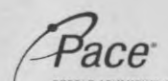
Date: **3/10/22** Time: **0915**

Hold: Condition: **NCF / OK**

Company Name/Address:
PES Environmental, Inc.- WA
 2101 Fourth Ave., Suite 1310
 Seattle, WA 98121

Billing Information:
 Attn: Accounts Payable
 2101 4th Avenue, Suite 1310
 Seattle, WA 98121

Analysis / Container / Preservative
 Pres Chk

Chain of Custody Page 1 of 1

 PEOPLE ADVANCING SCIENCE

Report to:
Brian O'Neal/Bill Haldeman

Email To:
 Shannon.McKernan@nv5.com;brian.oneal@nv5

Project Description:
American Linen

City/State Collected: **Seattle, WA**
 Please Circle: PT MT CT ET

Phone: **206-529-3980**

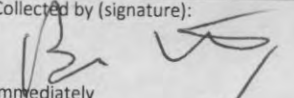
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MW-124-030722 MW-124-030722	Grab	GW			1025	3
MW-102-030722	Grab				1215	8
GEI-MW-01-030722 GEI-MW-1-030722					1535	3
MW-116-030722					1645	8
W-MW-01-030822	Grab			3/8/22	1012	8
MW-145R-030822					1200	8
MW-143-030822					1235	8
EQ-030822					1430	8
MW-125-030822					1525	8

ALK 125mlHDPE-NoPres	FEG 250mlHDPE-HNO3	MNG 250mlHDPE-HNO3	RSK175LL 40mlAmb-HCl	TOC 250mlHDPE-HCl	V8260ULLC 40mlAmb-HCl	Sulfate	NWTPHX
X	X	X	X	X	X	X	
X	X	X	X	X	X		
X	X	X	X	X	X	X	
X	X	X	X	X	X		
X	X	X	X	X	X	X	
X	X	X	X	X	X	X	
X	X	X	X	X	X	X	
X	X	X	X	X	X	X	
X	X	X	X	X	X	X	X

MT JULIET, TN
 12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **1470201**
1129

Acctnum: **PESENVSWA**
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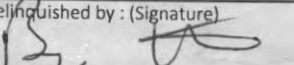
Shipped Via:
 Remarks Sample # (lab only)

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:
Updates per s.mckernan 3/11/22
 pH _____ Temp _____
 Flow _____ Other _____

Sample Receipt Checklist	
COC Seal Present/Intact: <input type="checkbox"/> NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
If Applicable	
VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

Samples returned via:
 UPS FedEx Courier
 Tracking # **5528594677SD**

Relinquished by: (Signature)


Date: **3/8/22**
 Time: **1630**

Received by: (Signature)

Trip Blank Received: Yes No
 HCL / MeOH
 TBR

Relinquished by: (Signature)

Date: _____
 Time: _____

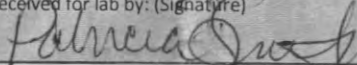
Received by: (Signature)

Temp: **9** °C
 Bottles Received: **0.6 to 0.6 73**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: _____
 Time: _____

Received for lab by: (Signature)


Date: **3/10/22**
 Time: **0915**

Hold: _____
 Condition: **NCF / OK**