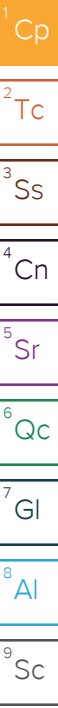


APPENDIX H

RI LABORATORY DATA

PART 8

L1212082-L1215869



PES Environmental, Inc.- WA

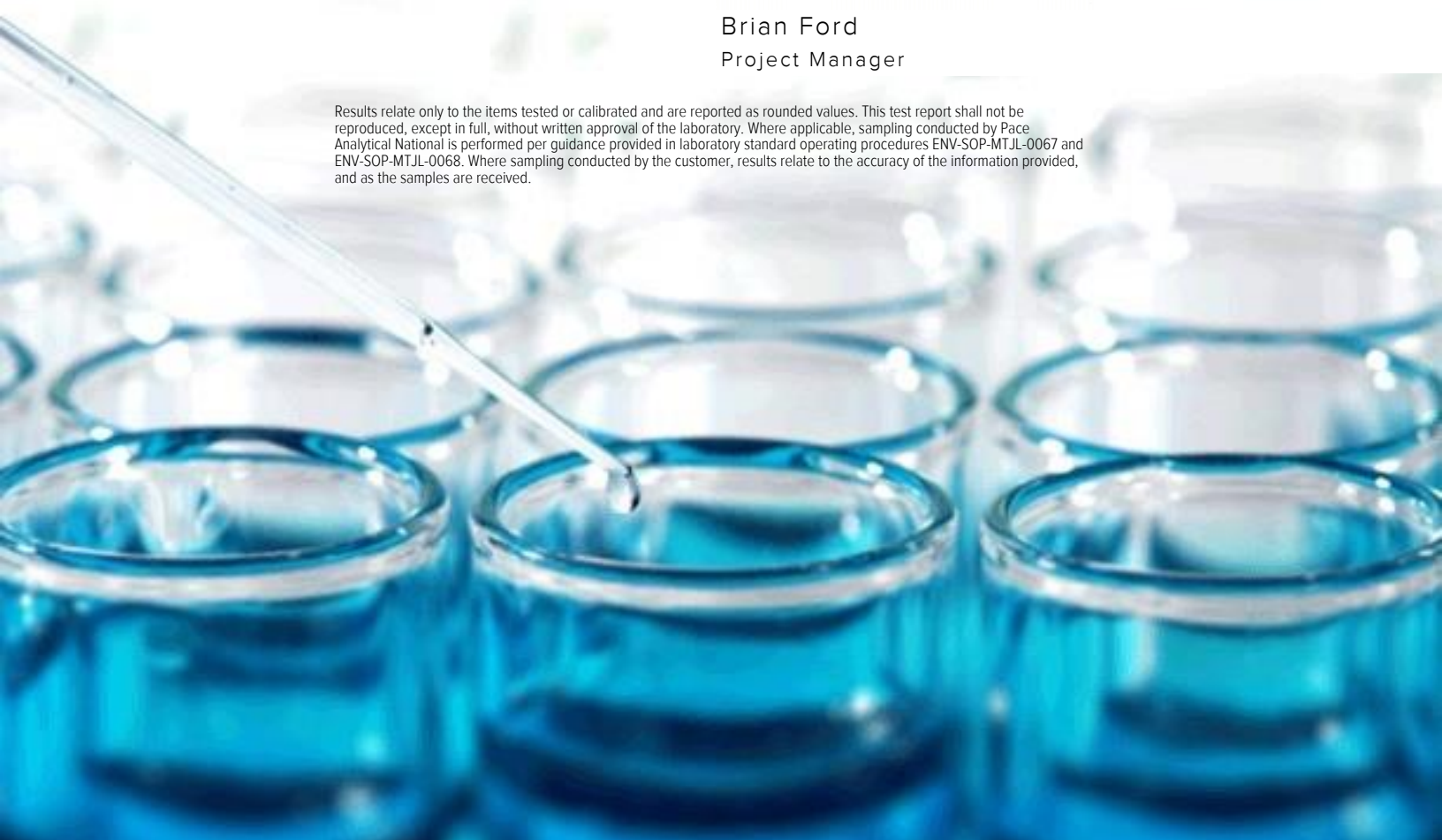
Sample Delivery Group: L1212082
Samples Received: 04/24/2020
Project Number: 1413.001.02.501B
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:

Brian Ford
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.





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¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

SAMPLE SUMMARY



MW-330-6 L1212082-01 Solid

Collected by
R. McLaughlin

Collected date/time
04/20/20 10:10

Received date/time
04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469315	1	05/02/20 21:55	05/02/20 22:02	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/20/20 10:10	04/28/20 18:44	BMB	Mt. Juliet, TN

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

MW-330-10 L1212082-02 Solid

Collected by
R. McLaughlin

Collected date/time
04/20/20 10:12

Received date/time
04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469315	1	05/02/20 21:55	05/02/20 22:02	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/20/20 10:12	04/28/20 19:03	BMB	Mt. Juliet, TN

MW-330-11.5 L1212082-03 Solid

Collected by
R. McLaughlin

Collected date/time
04/20/20 10:30

Received date/time
04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469315	1	05/02/20 21:55	05/02/20 22:02	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/20/20 10:30	04/28/20 19:22	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469033	20	04/20/20 10:30	05/01/20 01:28	ADM	Mt. Juliet, TN

MW-330-16 L1212082-04 Solid

Collected by
R. McLaughlin

Collected date/time
04/20/20 10:32

Received date/time
04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469315	1	05/02/20 21:55	05/02/20 22:02	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/20/20 10:32	04/28/20 19:41	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469033	1	04/20/20 10:32	05/01/20 00:11	ADM	Mt. Juliet, TN

MW-330-21.5 L1212082-05 Solid

Collected by
R. McLaughlin

Collected date/time
04/20/20 11:05

Received date/time
04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469315	1	05/02/20 21:55	05/02/20 22:02	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/20/20 11:05	04/28/20 20:00	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469033	1	04/20/20 11:05	05/01/20 00:30	ADM	Mt. Juliet, TN

MW-330-27 L1212082-06 Solid

Collected by
R. McLaughlin

Collected date/time
04/20/20 11:07

Received date/time
04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469315	1	05/02/20 21:55	05/02/20 22:02	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/20/20 11:07	04/28/20 20:19	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469033	1	04/20/20 11:07	05/01/20 00:50	ADM	Mt. Juliet, TN

MW-330-32 L1212082-07 Solid

Collected by
R. McLaughlin

Collected date/time
04/20/20 11:25

Received date/time
04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469315	1	05/02/20 21:55	05/02/20 22:02	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/20/20 11:25	04/28/20 20:38	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469033	1	04/20/20 11:25	05/01/20 01:09	ADM	Mt. Juliet, TN

SAMPLE SUMMARY



MW-330-38 L1212082-08 Solid

Collected by
R. McLaughlin

Collected date/time
04/20/20 11:27

Received date/time
04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469317	1	05/04/20 15:34	05/04/20 15:42	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/20/20 11:27	04/28/20 20:57	BMB	Mt. Juliet, TN

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

MW-330-42 L1212082-09 Solid

Collected by
R. McLaughlin

Collected date/time
04/20/20 12:05

Received date/time
04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469317	1	05/04/20 15:34	05/04/20 15:42	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/20/20 12:05	04/28/20 21:16	BMB	Mt. Juliet, TN

MW-330-47 L1212082-10 Solid

Collected by
R. McLaughlin

Collected date/time
04/20/20 12:07

Received date/time
04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469317	1	05/04/20 15:34	05/04/20 15:42	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/20/20 12:07	04/28/20 21:35	BMB	Mt. Juliet, TN

MW-330-52 L1212082-11 Solid

Collected by
R. McLaughlin

Collected date/time
04/20/20 12:40

Received date/time
04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469317	1	05/04/20 15:34	05/04/20 15:42	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/20/20 12:40	04/28/20 21:54	BMB	Mt. Juliet, TN

MW-330-58 L1212082-12 Solid

Collected by
R. McLaughlin

Collected date/time
04/20/20 12:42

Received date/time
04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469317	1	05/04/20 15:34	05/04/20 15:42	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/20/20 12:42	04/28/20 22:13	BMB	Mt. Juliet, TN

MW-330-62 L1212082-13 Solid

Collected by
R. McLaughlin

Collected date/time
04/20/20 12:45

Received date/time
04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469317	1	05/04/20 15:34	05/04/20 15:42	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/20/20 12:45	04/28/20 22:32	BMB	Mt. Juliet, TN

MW-336-7 L1212082-14 Solid

Collected by
R. McLaughlin

Collected date/time
04/22/20 09:10

Received date/time
04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469317	1	05/04/20 15:34	05/04/20 15:42	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/22/20 09:10	04/28/20 22:51	BMB	Mt. Juliet, TN

SAMPLE SUMMARY



MW-336-11.5 L1212082-15 Solid

Collected by R. McLaughlin Collected date/time 04/22/20 09:38 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469317	1	05/04/20 15:34	05/04/20 15:42	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/22/20 09:38	04/28/20 23:10	BMB	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

MW-336-14.5 L1212082-16 Solid

Collected by R. McLaughlin Collected date/time 04/22/20 09:40 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469317	1	05/04/20 15:34	05/04/20 15:42	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/22/20 09:40	04/28/20 23:29	BMB	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

MW-336-20 L1212082-17 Solid

Collected by R. McLaughlin Collected date/time 04/22/20 09:42 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469317	1	05/04/20 15:34	05/04/20 15:42	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/22/20 09:42	04/28/20 23:48	BMB	Mt. Juliet, TN

7 Gl

8 Al

9 Sc

MW-336-25 L1212082-18 Solid

Collected by R. McLaughlin Collected date/time 04/22/20 10:55 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469318	1	05/04/20 15:24	05/04/20 15:33	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/22/20 10:55	04/29/20 00:07	BMB	Mt. Juliet, TN

MW-336-30 L1212082-19 Solid

Collected by R. McLaughlin Collected date/time 04/22/20 10:58 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469318	1	05/04/20 15:24	05/04/20 15:33	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/22/20 10:58	04/29/20 00:26	BMB	Mt. Juliet, TN

MW-336-35 L1212082-20 Solid

Collected by R. McLaughlin Collected date/time 04/22/20 11:07 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469318	1	05/04/20 15:24	05/04/20 15:33	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467660	1	04/22/20 11:07	04/29/20 00:45	BMB	Mt. Juliet, TN

MW-336-40 L1212082-21 Solid

Collected by R. McLaughlin Collected date/time 04/22/20 11:10 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469318	1	05/04/20 15:24	05/04/20 15:33	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467916	1	04/22/20 11:10	04/29/20 12:51	BMB	Mt. Juliet, TN

SAMPLE SUMMARY



MW-336-45 L1212082-22 Solid

Collected by R. McLaughlin Collected date/time 04/22/20 12:40 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469318	1	05/04/20 15:24	05/04/20 15:33	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467916	1	04/22/20 12:40	04/29/20 13:10	BMB	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

MW-336-51 L1212082-23 Solid

Collected by R. McLaughlin Collected date/time 04/22/20 12:42 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469318	1	05/04/20 15:24	05/04/20 15:33	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467916	1	04/22/20 12:42	04/29/20 13:29	BMB	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

MW-336-55 L1212082-24 Solid

Collected by R. McLaughlin Collected date/time 04/22/20 12:45 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469318	1	05/04/20 15:24	05/04/20 15:33	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467916	1	04/22/20 12:45	04/29/20 13:48	BMB	Mt. Juliet, TN

7 Gl

8 Al

9 Sc

MW-336-60 L1212082-25 Solid

Collected by R. McLaughlin Collected date/time 04/22/20 12:47 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469318	1	05/04/20 15:24	05/04/20 15:33	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467916	1	04/22/20 12:47	04/29/20 14:07	BMB	Mt. Juliet, TN

MW-336-65 L1212082-26 Solid

Collected by R. McLaughlin Collected date/time 04/22/20 13:10 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469318	1	05/04/20 15:24	05/04/20 15:33	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467916	1	04/22/20 13:10	04/29/20 14:26	BMB	Mt. Juliet, TN

MW-336-69 L1212082-27 Solid

Collected by R. McLaughlin Collected date/time 04/22/20 13:15 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469318	1	05/04/20 15:24	05/04/20 15:33	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467916	1	04/22/20 13:15	04/29/20 14:44	BMB	Mt. Juliet, TN

MW-336-74.5 L1212082-28 Solid

Collected by R. McLaughlin Collected date/time 04/22/20 13:17 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469319	1	05/05/20 06:10	05/05/20 06:18	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467916	1	04/22/20 13:17	04/29/20 15:03	BMB	Mt. Juliet, TN

SAMPLE SUMMARY



MW-336-79 L1212082-29 Solid Collected by R. McLaughlin Collected date/time 04/22/20 13:35 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469319	1	05/05/20 06:10	05/05/20 06:18	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467916	1	04/22/20 13:35	04/29/20 15:22	BMB	Mt. Juliet, TN

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

MW-336-85 L1212082-30 Solid Collected by R. McLaughlin Collected date/time 04/22/20 13:37 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469319	1	05/05/20 06:10	05/05/20 06:18	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467916	1	04/22/20 13:37	04/29/20 17:15	BMB	Mt. Juliet, TN

MW-336-90 L1212082-31 Solid Collected by R. McLaughlin Collected date/time 04/22/20 13:50 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469319	1	05/05/20 06:10	05/05/20 06:18	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467916	1	04/22/20 13:50	04/29/20 17:34	BMB	Mt. Juliet, TN

MW-336-95 L1212082-32 Solid Collected by R. McLaughlin Collected date/time 04/22/20 13:52 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469319	1	05/05/20 06:10	05/05/20 06:18	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467916	1	04/22/20 13:52	04/29/20 17:53	BMB	Mt. Juliet, TN

MW-2019-11.5 L1212082-33 Solid Collected by R. McLaughlin Collected date/time 04/22/20 08:30 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469319	1	05/05/20 06:10	05/05/20 06:18	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467916	1	04/22/20 08:30	04/29/20 18:12	BMB	Mt. Juliet, TN

MW-2020-95 L1212082-34 Solid Collected by R. McLaughlin Collected date/time 04/22/20 15:30 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1469319	1	05/05/20 06:10	05/05/20 06:18	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1467916	1	04/22/20 15:30	04/29/20 18:31	BMB	Mt. Juliet, TN

TB-042320 L1212082-35 GW Collected by R. McLaughlin Collected date/time 04/23/20 08:50 Received date/time 04/24/20 08:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1466619	1	04/26/20 20:13	04/26/20 20:13	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469464	1	05/02/20 11:53	05/02/20 11:53	JHH	Mt. Juliet, TN



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.

Brian Ford
Project Manager

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.0		1	05/02/2020 22:02	WG1469315

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0415	0.0568	1	04/28/2020 18:44	WG1467660
Acrylonitrile	U		0.00410	0.0142	1	04/28/2020 18:44	WG1467660
Benzene	U		0.000530	0.00114	1	04/28/2020 18:44	WG1467660
Bromobenzene	U		0.00102	0.0142	1	04/28/2020 18:44	WG1467660
Bromodichloromethane	U		0.000823	0.00284	1	04/28/2020 18:44	WG1467660
Bromochloromethane	U		0.000641	0.00568	1	04/28/2020 18:44	WG1467660
Bromoform	U		0.00133	0.0284	1	04/28/2020 18:44	WG1467660
Bromomethane	U		0.00224	0.0142	1	04/28/2020 18:44	WG1467660
n-Butylbenzene	U		0.00596	0.0142	1	04/28/2020 18:44	WG1467660
sec-Butylbenzene	U		0.00327	0.0142	1	04/28/2020 18:44	WG1467660
tert-Butylbenzene	U		0.00221	0.00568	1	04/28/2020 18:44	WG1467660
Carbon disulfide	U		0.000795	0.0142	1	04/28/2020 18:44	WG1467660
Carbon tetrachloride	U		0.00102	0.00568	1	04/28/2020 18:44	WG1467660
Chlorobenzene	U		0.000239	0.00284	1	04/28/2020 18:44	WG1467660
Chlorodibromomethane	U		0.000695	0.00284	1	04/28/2020 18:44	WG1467660
Chloroethane	U		0.00193	0.00568	1	04/28/2020 18:44	WG1467660
Chloroform	U		0.00117	0.00284	1	04/28/2020 18:44	WG1467660
Chloromethane	U	J0	0.00494	0.0142	1	04/28/2020 18:44	WG1467660
2-Chlorotoluene	U		0.000982	0.00284	1	04/28/2020 18:44	WG1467660
4-Chlorotoluene	U		0.000511	0.00568	1	04/28/2020 18:44	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00443	0.0284	1	04/28/2020 18:44	WG1467660
1,2-Dibromoethane	U		0.000736	0.00284	1	04/28/2020 18:44	WG1467660
Dibromomethane	U		0.000852	0.00568	1	04/28/2020 18:44	WG1467660
1,2-Dichlorobenzene	U		0.000483	0.00568	1	04/28/2020 18:44	WG1467660
1,3-Dichlorobenzene	U		0.000681	0.00568	1	04/28/2020 18:44	WG1467660
1,4-Dichlorobenzene	U		0.000795	0.00568	1	04/28/2020 18:44	WG1467660
Dichlorodifluoromethane	U		0.00183	0.00284	1	04/28/2020 18:44	WG1467660
1,1-Dichloroethane	U		0.000558	0.00284	1	04/28/2020 18:44	WG1467660
1,2-Dichloroethane	U		0.000737	0.00284	1	04/28/2020 18:44	WG1467660
1,1-Dichloroethene	U		0.000688	0.00284	1	04/28/2020 18:44	WG1467660
cis-1,2-Dichloroethene	U		0.000834	0.00284	1	04/28/2020 18:44	WG1467660
trans-1,2-Dichloroethene	U		0.00118	0.00568	1	04/28/2020 18:44	WG1467660
1,2-Dichloropropane	U	J4	0.00161	0.00568	1	04/28/2020 18:44	WG1467660
1,1-Dichloropropene	U		0.000919	0.00284	1	04/28/2020 18:44	WG1467660
1,3-Dichloropropane	U		0.000569	0.00568	1	04/28/2020 18:44	WG1467660
cis-1,3-Dichloropropene	U		0.000860	0.00284	1	04/28/2020 18:44	WG1467660
trans-1,3-Dichloropropene	U		0.00129	0.00568	1	04/28/2020 18:44	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00211	0.00568	1	04/28/2020 18:44	WG1467660
2,2-Dichloropropane	U		0.00157	0.00284	1	04/28/2020 18:44	WG1467660
Di-isopropyl ether	U		0.000466	0.00114	1	04/28/2020 18:44	WG1467660
Ethylbenzene	U		0.000837	0.00284	1	04/28/2020 18:44	WG1467660
Hexachloro-1,3-butadiene	U	J0	0.00681	0.0284	1	04/28/2020 18:44	WG1467660
2-Hexanone	U	J4	0.00382	0.0284	1	04/28/2020 18:44	WG1467660
n-Hexane	U		0.00257	0.00568	1	04/28/2020 18:44	WG1467660
Iodomethane	U		0.00264	0.0142	1	04/28/2020 18:44	WG1467660
Isopropylbenzene	U		0.000483	0.00284	1	04/28/2020 18:44	WG1467660
p-Isopropyltoluene	U		0.00290	0.00568	1	04/28/2020 18:44	WG1467660
2-Butanone (MEK)	U		0.0721	0.114	1	04/28/2020 18:44	WG1467660
Methylene Chloride	U		0.00754	0.0284	1	04/28/2020 18:44	WG1467660
4-Methyl-2-pentanone (MIBK)	U	J4	0.00259	0.0284	1	04/28/2020 18:44	WG1467660

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



Collected date/time: 04/20/20 10:10

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000398	0.00114	1	04/28/2020 18:44	WG1467660
Naphthalene	U	<u>J0</u>	0.00554	0.0142	1	04/28/2020 18:44	WG1467660
n-Propylbenzene	U		0.00108	0.00568	1	04/28/2020 18:44	WG1467660
Styrene	U	<u>J4</u>	0.000260	0.0142	1	04/28/2020 18:44	WG1467660
1,1,1,2-Tetrachloroethane	U		0.00108	0.00284	1	04/28/2020 18:44	WG1467660
1,1,2,2-Tetrachloroethane	U		0.000789	0.00284	1	04/28/2020 18:44	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.000856	0.00284	1	04/28/2020 18:44	WG1467660
Tetrachloroethene	U		0.00102	0.00284	1	04/28/2020 18:44	WG1467660
Toluene	U		0.00148	0.00568	1	04/28/2020 18:44	WG1467660
1,2,3-Trichlorobenzene	U	<u>J0</u>	0.00833	0.0142	1	04/28/2020 18:44	WG1467660
1,2,4-Trichlorobenzene	U		0.00500	0.0142	1	04/28/2020 18:44	WG1467660
1,1,1-Trichloroethane	U		0.00105	0.00284	1	04/28/2020 18:44	WG1467660
1,1,2-Trichloroethane	U		0.000678	0.00284	1	04/28/2020 18:44	WG1467660
Trichloroethene	U		0.000663	0.00114	1	04/28/2020 18:44	WG1467660
Trichlorofluoromethane	U		0.000939	0.00284	1	04/28/2020 18:44	WG1467660
1,2,3-Trichloropropane	U		0.00184	0.0142	1	04/28/2020 18:44	WG1467660
1,2,4-Trimethylbenzene	U		0.00179	0.00568	1	04/28/2020 18:44	WG1467660
1,2,3-Trimethylbenzene	U		0.00179	0.00568	1	04/28/2020 18:44	WG1467660
1,3,5-Trimethylbenzene	U		0.00227	0.00568	1	04/28/2020 18:44	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00288	0.0142	1	04/28/2020 18:44	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00132	0.00284	1	04/28/2020 18:44	WG1467660
Xylenes, Total	U		0.00100	0.00738	1	04/28/2020 18:44	WG1467660
(S) Toluene-d8	109			75.0-131		04/28/2020 18:44	WG1467660
(S) 4-Bromofluorobenzene	102			67.0-138		04/28/2020 18:44	WG1467660
(S) 1,2-Dichloroethane-d4	89.6			70.0-130		04/28/2020 18:44	WG1467660

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.6		1	05/02/2020 22:02	WG1469315

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0403	0.0552	1	04/28/2020 19:03	WG1467660
Acrylonitrile	U		0.00398	0.0138	1	04/28/2020 19:03	WG1467660
Benzene	0.00202		0.000515	0.00110	1	04/28/2020 19:03	WG1467660
Bromobenzene	U		0.000993	0.0138	1	04/28/2020 19:03	WG1467660
Bromodichloromethane	U		0.000800	0.00276	1	04/28/2020 19:03	WG1467660
Bromochloromethane	U		0.000622	0.00552	1	04/28/2020 19:03	WG1467660
Bromoform	U		0.00129	0.0276	1	04/28/2020 19:03	WG1467660
Bromomethane	U		0.00217	0.0138	1	04/28/2020 19:03	WG1467660
n-Butylbenzene	U		0.00579	0.0138	1	04/28/2020 19:03	WG1467660
sec-Butylbenzene	U		0.00318	0.0138	1	04/28/2020 19:03	WG1467660
tert-Butylbenzene	U		0.00215	0.00552	1	04/28/2020 19:03	WG1467660
Carbon disulfide	U		0.000772	0.0138	1	04/28/2020 19:03	WG1467660
Carbon tetrachloride	U		0.000991	0.00552	1	04/28/2020 19:03	WG1467660
Chlorobenzene	U		0.000232	0.00276	1	04/28/2020 19:03	WG1467660
Chlorodibromomethane	U		0.000675	0.00276	1	04/28/2020 19:03	WG1467660
Chloroethane	U		0.00188	0.00552	1	04/28/2020 19:03	WG1467660
Chloroform	U		0.00114	0.00276	1	04/28/2020 19:03	WG1467660
Chloromethane	U	J0	0.00480	0.0138	1	04/28/2020 19:03	WG1467660
2-Chlorotoluene	U		0.000954	0.00276	1	04/28/2020 19:03	WG1467660
4-Chlorotoluene	U		0.000497	0.00552	1	04/28/2020 19:03	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00430	0.0276	1	04/28/2020 19:03	WG1467660
1,2-Dibromoethane	U		0.000715	0.00276	1	04/28/2020 19:03	WG1467660
Dibromomethane	U		0.000828	0.00552	1	04/28/2020 19:03	WG1467660
1,2-Dichlorobenzene	U		0.000469	0.00552	1	04/28/2020 19:03	WG1467660
1,3-Dichlorobenzene	U		0.000662	0.00552	1	04/28/2020 19:03	WG1467660
1,4-Dichlorobenzene	U		0.000772	0.00552	1	04/28/2020 19:03	WG1467660
Dichlorodifluoromethane	U		0.00178	0.00276	1	04/28/2020 19:03	WG1467660
1,1-Dichloroethane	U		0.000542	0.00276	1	04/28/2020 19:03	WG1467660
1,2-Dichloroethane	U		0.000716	0.00276	1	04/28/2020 19:03	WG1467660
1,1-Dichloroethene	U		0.000669	0.00276	1	04/28/2020 19:03	WG1467660
cis-1,2-Dichloroethene	U		0.000810	0.00276	1	04/28/2020 19:03	WG1467660
trans-1,2-Dichloroethene	U		0.00115	0.00552	1	04/28/2020 19:03	WG1467660
1,2-Dichloropropane	U	J4	0.00157	0.00552	1	04/28/2020 19:03	WG1467660
1,1-Dichloropropene	U		0.000893	0.00276	1	04/28/2020 19:03	WG1467660
1,3-Dichloropropane	U		0.000553	0.00552	1	04/28/2020 19:03	WG1467660
cis-1,3-Dichloropropene	U		0.000835	0.00276	1	04/28/2020 19:03	WG1467660
trans-1,3-Dichloropropene	U		0.00126	0.00552	1	04/28/2020 19:03	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00205	0.00552	1	04/28/2020 19:03	WG1467660
2,2-Dichloropropane	U		0.00152	0.00276	1	04/28/2020 19:03	WG1467660
Di-isopropyl ether	U		0.000452	0.00110	1	04/28/2020 19:03	WG1467660
Ethylbenzene	U		0.000813	0.00276	1	04/28/2020 19:03	WG1467660
Hexachloro-1,3-butadiene	U	J0	0.00662	0.0276	1	04/28/2020 19:03	WG1467660
2-Hexanone	U	J4	0.00371	0.0276	1	04/28/2020 19:03	WG1467660
n-Hexane	U		0.00249	0.00552	1	04/28/2020 19:03	WG1467660
Iodomethane	U		0.00256	0.0138	1	04/28/2020 19:03	WG1467660
Isopropylbenzene	U		0.000469	0.00276	1	04/28/2020 19:03	WG1467660
p-Isopropyltoluene	U		0.00281	0.00552	1	04/28/2020 19:03	WG1467660
2-Butanone (MEK)	U		0.0701	0.110	1	04/28/2020 19:03	WG1467660
Methylene Chloride	U		0.00733	0.0276	1	04/28/2020 19:03	WG1467660
4-Methyl-2-pentanone (MIBK)	U	J4	0.00252	0.0276	1	04/28/2020 19:03	WG1467660

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000386	0.00110	1	04/28/2020 19:03	WG1467660
Naphthalene	U	<u>J0</u>	0.00538	0.0138	1	04/28/2020 19:03	WG1467660
n-Propylbenzene	U		0.00105	0.00552	1	04/28/2020 19:03	WG1467660
Styrene	U	<u>J4</u>	0.000253	0.0138	1	04/28/2020 19:03	WG1467660
1,1,1,2-Tetrachloroethane	U		0.00105	0.00276	1	04/28/2020 19:03	WG1467660
1,1,2,2-Tetrachloroethane	U		0.000767	0.00276	1	04/28/2020 19:03	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.000832	0.00276	1	04/28/2020 19:03	WG1467660
Tetrachloroethene	U		0.000989	0.00276	1	04/28/2020 19:03	WG1467660
Toluene	0.00717		0.00143	0.00552	1	04/28/2020 19:03	WG1467660
1,2,3-Trichlorobenzene	U	<u>J0</u>	0.00809	0.0138	1	04/28/2020 19:03	WG1467660
1,2,4-Trichlorobenzene	U		0.00485	0.0138	1	04/28/2020 19:03	WG1467660
1,1,1-Trichloroethane	U		0.00102	0.00276	1	04/28/2020 19:03	WG1467660
1,1,2-Trichloroethane	U		0.000659	0.00276	1	04/28/2020 19:03	WG1467660
Trichloroethene	U		0.000644	0.00110	1	04/28/2020 19:03	WG1467660
Trichlorofluoromethane	U		0.000913	0.00276	1	04/28/2020 19:03	WG1467660
1,2,3-Trichloropropane	U		0.00179	0.0138	1	04/28/2020 19:03	WG1467660
1,2,4-Trimethylbenzene	U		0.00174	0.00552	1	04/28/2020 19:03	WG1467660
1,2,3-Trimethylbenzene	U		0.00174	0.00552	1	04/28/2020 19:03	WG1467660
1,3,5-Trimethylbenzene	U		0.00221	0.00552	1	04/28/2020 19:03	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00280	0.0138	1	04/28/2020 19:03	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00128	0.00276	1	04/28/2020 19:03	WG1467660
Xylenes, Total	0.00404	<u>J</u>	0.000971	0.00717	1	04/28/2020 19:03	WG1467660
<i>(S) Toluene-d8</i>	112			75.0-131		04/28/2020 19:03	WG1467660
<i>(S) 4-Bromofluorobenzene</i>	102			67.0-138		04/28/2020 19:03	WG1467660
<i>(S) 1,2-Dichloroethane-d4</i>	89.8			70.0-130		04/28/2020 19:03	WG1467660

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.8		1	05/02/2020 22:02	WG1469315

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0470	J JO	0.0426	0.0583	1	04/28/2020 19:22	WG1467660
Acrylonitrile	U		0.00421	0.0146	1	04/28/2020 19:22	WG1467660
Benzene	U		0.000544	0.00117	1	04/28/2020 19:22	WG1467660
Bromobenzene	U		0.00105	0.0146	1	04/28/2020 19:22	WG1467660
Bromodichloromethane	U		0.000845	0.00291	1	04/28/2020 19:22	WG1467660
Bromochloromethane	U		0.000658	0.00583	1	04/28/2020 19:22	WG1467660
Bromoform	U		0.00136	0.0291	1	04/28/2020 19:22	WG1467660
Bromomethane	U		0.00230	0.0146	1	04/28/2020 19:22	WG1467660
n-Butylbenzene	U		0.00612	0.0146	1	04/28/2020 19:22	WG1467660
sec-Butylbenzene	U		0.00336	0.0146	1	04/28/2020 19:22	WG1467660
tert-Butylbenzene	U		0.00227	0.00583	1	04/28/2020 19:22	WG1467660
Carbon disulfide	0.00216	J	0.000816	0.0146	1	04/28/2020 19:22	WG1467660
Carbon tetrachloride	U		0.00105	0.00583	1	04/28/2020 19:22	WG1467660
Chlorobenzene	U		0.000245	0.00291	1	04/28/2020 19:22	WG1467660
Chlorodibromomethane	U		0.000713	0.00291	1	04/28/2020 19:22	WG1467660
Chloroethane	U		0.00198	0.00583	1	04/28/2020 19:22	WG1467660
Chloroform	U		0.00120	0.00291	1	04/28/2020 19:22	WG1467660
Chloromethane	U	JO	0.00507	0.0146	1	04/28/2020 19:22	WG1467660
2-Chlorotoluene	U		0.00101	0.00291	1	04/28/2020 19:22	WG1467660
4-Chlorotoluene	U		0.000525	0.00583	1	04/28/2020 19:22	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00455	0.0291	1	04/28/2020 19:22	WG1467660
1,2-Dibromoethane	U		0.000755	0.00291	1	04/28/2020 19:22	WG1467660
Dibromomethane	U		0.000874	0.00583	1	04/28/2020 19:22	WG1467660
1,2-Dichlorobenzene	U		0.000495	0.00583	1	04/28/2020 19:22	WG1467660
1,3-Dichlorobenzene	U		0.000700	0.00583	1	04/28/2020 19:22	WG1467660
1,4-Dichlorobenzene	U		0.000816	0.00583	1	04/28/2020 19:22	WG1467660
Dichlorodifluoromethane	U		0.00188	0.00291	1	04/28/2020 19:22	WG1467660
1,1-Dichloroethane	U		0.000572	0.00291	1	04/28/2020 19:22	WG1467660
1,2-Dichloroethane	U		0.000757	0.00291	1	04/28/2020 19:22	WG1467660
1,1-Dichloroethene	U		0.000707	0.00291	1	04/28/2020 19:22	WG1467660
cis-1,2-Dichloroethene	U		0.000856	0.00291	1	04/28/2020 19:22	WG1467660
trans-1,2-Dichloroethene	U		0.00121	0.00583	1	04/28/2020 19:22	WG1467660
1,2-Dichloropropane	U	J4	0.00166	0.00583	1	04/28/2020 19:22	WG1467660
1,1-Dichloropropene	U		0.000943	0.00291	1	04/28/2020 19:22	WG1467660
1,3-Dichloropropane	U		0.000584	0.00583	1	04/28/2020 19:22	WG1467660
cis-1,3-Dichloropropene	U		0.000883	0.00291	1	04/28/2020 19:22	WG1467660
trans-1,3-Dichloropropene	U		0.00133	0.00583	1	04/28/2020 19:22	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00217	0.00583	1	04/28/2020 19:22	WG1467660
2,2-Dichloropropane	U		0.00161	0.00291	1	04/28/2020 19:22	WG1467660
Di-isopropyl ether	U		0.000478	0.00117	1	04/28/2020 19:22	WG1467660
Ethylbenzene	U		0.000859	0.00291	1	04/28/2020 19:22	WG1467660
Hexachloro-1,3-butadiene	U	JO	0.00700	0.0291	1	04/28/2020 19:22	WG1467660
2-Hexanone	U	J4	0.00392	0.0291	1	04/28/2020 19:22	WG1467660
n-Hexane	U		0.00263	0.00583	1	04/28/2020 19:22	WG1467660
Iodomethane	U		0.00270	0.0146	1	04/28/2020 19:22	WG1467660
Isopropylbenzene	U		0.000495	0.00291	1	04/28/2020 19:22	WG1467660
p-Isopropyltoluene	2.51		0.0595	0.117	20	05/01/2020 01:28	WG1469033
2-Butanone (MEK)	U		0.0740	0.117	1	04/28/2020 19:22	WG1467660
Methylene Chloride	U		0.00774	0.0291	1	04/28/2020 19:22	WG1467660
4-Methyl-2-pentanone (MIBK)	U	J4	0.00266	0.0291	1	04/28/2020 19:22	WG1467660

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



Collected date/time: 04/20/20 10:30

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000408	0.00117	1	04/28/2020 19:22	WG1467660
Naphthalene	U	<u>J0</u>	0.00569	0.0146	1	04/28/2020 19:22	WG1467660
n-Propylbenzene	U		0.00111	0.00583	1	04/28/2020 19:22	WG1467660
Styrene	U	<u>J4</u>	0.000267	0.0146	1	04/28/2020 19:22	WG1467660
1,1,1,2-Tetrachloroethane	U		0.00111	0.00291	1	04/28/2020 19:22	WG1467660
1,1,2,2-Tetrachloroethane	U		0.000810	0.00291	1	04/28/2020 19:22	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.000879	0.00291	1	04/28/2020 19:22	WG1467660
Tetrachloroethene	U		0.00104	0.00291	1	04/28/2020 19:22	WG1467660
Toluene	U		0.00152	0.00583	1	04/28/2020 19:22	WG1467660
1,2,3-Trichlorobenzene	U	<u>J0</u>	0.00855	0.0146	1	04/28/2020 19:22	WG1467660
1,2,4-Trichlorobenzene	U		0.00513	0.0146	1	04/28/2020 19:22	WG1467660
1,1,1-Trichloroethane	U		0.00108	0.00291	1	04/28/2020 19:22	WG1467660
1,1,2-Trichloroethane	U		0.000696	0.00291	1	04/28/2020 19:22	WG1467660
Trichloroethene	U		0.000681	0.00117	1	04/28/2020 19:22	WG1467660
Trichlorofluoromethane	U		0.000964	0.00291	1	04/28/2020 19:22	WG1467660
1,2,3-Trichloropropane	U		0.00189	0.0146	1	04/28/2020 19:22	WG1467660
1,2,4-Trimethylbenzene	U		0.00184	0.00583	1	04/28/2020 19:22	WG1467660
1,2,3-Trimethylbenzene	U		0.00184	0.00583	1	04/28/2020 19:22	WG1467660
1,3,5-Trimethylbenzene	U		0.00233	0.00583	1	04/28/2020 19:22	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00296	0.0146	1	04/28/2020 19:22	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00135	0.00291	1	04/28/2020 19:22	WG1467660
Xylenes, Total	U		0.00103	0.00758	1	04/28/2020 19:22	WG1467660
(S) Toluene-d8	111			75.0-131		04/28/2020 19:22	WG1467660
(S) Toluene-d8	103			75.0-131		05/01/2020 01:28	WG1469033
(S) 4-Bromofluorobenzene	105			67.0-138		04/28/2020 19:22	WG1467660
(S) 4-Bromofluorobenzene	94.1			67.0-138		05/01/2020 01:28	WG1469033
(S) 1,2-Dichloroethane-d4	91.3			70.0-130		04/28/2020 19:22	WG1467660
(S) 1,2-Dichloroethane-d4	112			70.0-130		05/01/2020 01:28	WG1469033

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.0		1	05/02/2020 22:02	WG1469315

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0415	0.0568	1	04/28/2020 19:41	WG1467660
Acrylonitrile	U		0.00410	0.0142	1	04/28/2020 19:41	WG1467660
Benzene	U		0.000531	0.00114	1	04/28/2020 19:41	WG1467660
Bromobenzene	U		0.00102	0.0142	1	04/28/2020 19:41	WG1467660
Bromodichloromethane	U		0.000824	0.00284	1	04/28/2020 19:41	WG1467660
Bromochloromethane	U		0.000641	0.00568	1	04/28/2020 19:41	WG1467660
Bromoform	U		0.00133	0.0284	1	04/28/2020 19:41	WG1467660
Bromomethane	U		0.00224	0.0142	1	04/28/2020 19:41	WG1467660
n-Butylbenzene	U		0.00596	0.0142	1	04/28/2020 19:41	WG1467660
sec-Butylbenzene	U		0.00327	0.0142	1	04/28/2020 19:41	WG1467660
tert-Butylbenzene	U		0.00222	0.00568	1	04/28/2020 19:41	WG1467660
Carbon disulfide	U		0.000795	0.0142	1	04/28/2020 19:41	WG1467660
Carbon tetrachloride	U		0.00102	0.00568	1	04/28/2020 19:41	WG1467660
Chlorobenzene	U		0.000239	0.00284	1	04/28/2020 19:41	WG1467660
Chlorodibromomethane	U		0.000695	0.00284	1	04/28/2020 19:41	WG1467660
Chloroethane	U		0.00193	0.00568	1	04/28/2020 19:41	WG1467660
Chloroform	U		0.00117	0.00284	1	04/28/2020 19:41	WG1467660
Chloromethane	U	JO	0.00494	0.0142	1	04/28/2020 19:41	WG1467660
2-Chlorotoluene	U		0.000983	0.00284	1	04/28/2020 19:41	WG1467660
4-Chlorotoluene	U		0.000511	0.00568	1	04/28/2020 19:41	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00443	0.0284	1	04/28/2020 19:41	WG1467660
1,2-Dibromoethane	U		0.000736	0.00284	1	04/28/2020 19:41	WG1467660
Dibromomethane	U		0.000852	0.00568	1	04/28/2020 19:41	WG1467660
1,2-Dichlorobenzene	U		0.000483	0.00568	1	04/28/2020 19:41	WG1467660
1,3-Dichlorobenzene	U		0.000682	0.00568	1	04/28/2020 19:41	WG1467660
1,4-Dichlorobenzene	U		0.000795	0.00568	1	04/28/2020 19:41	WG1467660
Dichlorodifluoromethane	U		0.00183	0.00284	1	04/28/2020 19:41	WG1467660
1,1-Dichloroethane	U		0.000558	0.00284	1	04/28/2020 19:41	WG1467660
1,2-Dichloroethane	U		0.000737	0.00284	1	04/28/2020 19:41	WG1467660
1,1-Dichloroethene	U		0.000688	0.00284	1	04/28/2020 19:41	WG1467660
cis-1,2-Dichloroethene	U		0.000834	0.00284	1	04/28/2020 19:41	WG1467660
trans-1,2-Dichloroethene	U		0.00118	0.00568	1	04/28/2020 19:41	WG1467660
1,2-Dichloropropane	U	J4	0.00161	0.00568	1	04/28/2020 19:41	WG1467660
1,1-Dichloropropene	U		0.000919	0.00284	1	04/28/2020 19:41	WG1467660
1,3-Dichloropropane	U		0.000569	0.00568	1	04/28/2020 19:41	WG1467660
cis-1,3-Dichloropropene	U		0.000860	0.00284	1	04/28/2020 19:41	WG1467660
trans-1,3-Dichloropropene	U		0.00130	0.00568	1	04/28/2020 19:41	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00211	0.00568	1	04/28/2020 19:41	WG1467660
2,2-Dichloropropane	U		0.00157	0.00284	1	04/28/2020 19:41	WG1467660
Di-isopropyl ether	U		0.000466	0.00114	1	04/28/2020 19:41	WG1467660
Ethylbenzene	U		0.000837	0.00284	1	04/28/2020 19:41	WG1467660
Hexachloro-1,3-butadiene	U	JO	0.00682	0.0284	1	04/28/2020 19:41	WG1467660
2-Hexanone	U	J4	0.00382	0.0284	1	04/28/2020 19:41	WG1467660
n-Hexane	U		0.00257	0.00568	1	04/28/2020 19:41	WG1467660
Iodomethane	U		0.00264	0.0142	1	04/28/2020 19:41	WG1467660
Isopropylbenzene	U		0.000483	0.00284	1	04/28/2020 19:41	WG1467660
p-Isopropyltoluene	0.00365	J	0.00290	0.00568	1	05/01/2020 00:11	WG1469033
2-Butanone (MEK)	U		0.0721	0.114	1	04/28/2020 19:41	WG1467660
Methylene Chloride	U		0.00754	0.0284	1	04/28/2020 19:41	WG1467660
4-Methyl-2-pentanone (MIBK)	U	J4	0.00259	0.0284	1	04/28/2020 19:41	WG1467660

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



Collected date/time: 04/20/20 10:32

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000398	0.00114	1	04/28/2020 19:41	WG1467660
Naphthalene	U	<u>JO</u>	0.00554	0.0142	1	04/28/2020 19:41	WG1467660
n-Propylbenzene	U		0.00108	0.00568	1	04/28/2020 19:41	WG1467660
Styrene	U	<u>J4</u>	0.000260	0.0142	1	04/28/2020 19:41	WG1467660
1,1,1,2-Tetrachloroethane	U		0.00108	0.00284	1	04/28/2020 19:41	WG1467660
1,1,2,2-Tetrachloroethane	U		0.000790	0.00284	1	04/28/2020 19:41	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.000857	0.00284	1	04/28/2020 19:41	WG1467660
Tetrachloroethene	U		0.00102	0.00284	1	04/28/2020 19:41	WG1467660
Toluene	0.00260	<u>J</u>	0.00148	0.00568	1	04/28/2020 19:41	WG1467660
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.00833	0.0142	1	04/28/2020 19:41	WG1467660
1,2,4-Trichlorobenzene	U		0.00500	0.0142	1	04/28/2020 19:41	WG1467660
1,1,1-Trichloroethane	U		0.00105	0.00284	1	04/28/2020 19:41	WG1467660
1,1,2-Trichloroethane	U		0.000678	0.00284	1	04/28/2020 19:41	WG1467660
Trichloroethene	U		0.000663	0.00114	1	04/28/2020 19:41	WG1467660
Trichlorofluoromethane	U		0.000940	0.00284	1	04/28/2020 19:41	WG1467660
1,2,3-Trichloropropane	U		0.00184	0.0142	1	04/28/2020 19:41	WG1467660
1,2,4-Trimethylbenzene	U		0.00179	0.00568	1	04/28/2020 19:41	WG1467660
1,2,3-Trimethylbenzene	U		0.00179	0.00568	1	04/28/2020 19:41	WG1467660
1,3,5-Trimethylbenzene	U		0.00227	0.00568	1	04/28/2020 19:41	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00289	0.0142	1	04/28/2020 19:41	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00132	0.00284	1	04/28/2020 19:41	WG1467660
Xylenes, Total	U		0.00100	0.00738	1	04/28/2020 19:41	WG1467660
(S) Toluene-d8	109			75.0-131		04/28/2020 19:41	WG1467660
(S) Toluene-d8	106			75.0-131		05/01/2020 00:11	WG1469033
(S) 4-Bromofluorobenzene	103			67.0-138		04/28/2020 19:41	WG1467660
(S) 4-Bromofluorobenzene	98.9			67.0-138		05/01/2020 00:11	WG1469033
(S) 1,2-Dichloroethane-d4	92.4			70.0-130		04/28/2020 19:41	WG1467660
(S) 1,2-Dichloroethane-d4	104			70.0-130		05/01/2020 00:11	WG1469033

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.9		1	05/02/2020 22:02	WG1469315

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0389	0.0532	1	04/28/2020 20:00	WG1467660
Acrylonitrile	U		0.00384	0.0133	1	04/28/2020 20:00	WG1467660
Benzene	U		0.000497	0.00106	1	04/28/2020 20:00	WG1467660
Bromobenzene	U		0.000958	0.0133	1	04/28/2020 20:00	WG1467660
Bromodichloromethane	U		0.000772	0.00266	1	04/28/2020 20:00	WG1467660
Bromochloromethane	U		0.000601	0.00532	1	04/28/2020 20:00	WG1467660
Bromoform	U		0.00125	0.0266	1	04/28/2020 20:00	WG1467660
Bromomethane	U		0.00210	0.0133	1	04/28/2020 20:00	WG1467660
n-Butylbenzene	U		0.00559	0.0133	1	04/28/2020 20:00	WG1467660
sec-Butylbenzene	U		0.00307	0.0133	1	04/28/2020 20:00	WG1467660
tert-Butylbenzene	U		0.00208	0.00532	1	04/28/2020 20:00	WG1467660
Carbon disulfide	U		0.000745	0.0133	1	04/28/2020 20:00	WG1467660
Carbon tetrachloride	U		0.000956	0.00532	1	04/28/2020 20:00	WG1467660
Chlorobenzene	U		0.000224	0.00266	1	04/28/2020 20:00	WG1467660
Chlorodibromomethane	U		0.000652	0.00266	1	04/28/2020 20:00	WG1467660
Chloroethane	U		0.00181	0.00532	1	04/28/2020 20:00	WG1467660
Chloroform	U		0.00110	0.00266	1	04/28/2020 20:00	WG1467660
Chloromethane	U	J0	0.00463	0.0133	1	04/28/2020 20:00	WG1467660
2-Chlorotoluene	U		0.000921	0.00266	1	04/28/2020 20:00	WG1467660
4-Chlorotoluene	U		0.000479	0.00532	1	04/28/2020 20:00	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00415	0.0266	1	04/28/2020 20:00	WG1467660
1,2-Dibromoethane	U		0.000690	0.00266	1	04/28/2020 20:00	WG1467660
Dibromomethane	U		0.000799	0.00532	1	04/28/2020 20:00	WG1467660
1,2-Dichlorobenzene	U		0.000453	0.00532	1	04/28/2020 20:00	WG1467660
1,3-Dichlorobenzene	U		0.000639	0.00532	1	04/28/2020 20:00	WG1467660
1,4-Dichlorobenzene	U		0.000745	0.00532	1	04/28/2020 20:00	WG1467660
Dichlorodifluoromethane	U		0.00171	0.00266	1	04/28/2020 20:00	WG1467660
1,1-Dichloroethane	U		0.000523	0.00266	1	04/28/2020 20:00	WG1467660
1,2-Dichloroethane	U		0.000691	0.00266	1	04/28/2020 20:00	WG1467660
1,1-Dichloroethene	U		0.000645	0.00266	1	04/28/2020 20:00	WG1467660
cis-1,2-Dichloroethene	U		0.000782	0.00266	1	04/28/2020 20:00	WG1467660
trans-1,2-Dichloroethene	U		0.00111	0.00532	1	04/28/2020 20:00	WG1467660
1,2-Dichloropropane	U	J4	0.00151	0.00532	1	04/28/2020 20:00	WG1467660
1,1-Dichloropropene	U		0.000861	0.00266	1	04/28/2020 20:00	WG1467660
1,3-Dichloropropane	U		0.000533	0.00532	1	04/28/2020 20:00	WG1467660
cis-1,3-Dichloropropene	U		0.000806	0.00266	1	04/28/2020 20:00	WG1467660
trans-1,3-Dichloropropene	U		0.00121	0.00532	1	04/28/2020 20:00	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00198	0.00532	1	04/28/2020 20:00	WG1467660
2,2-Dichloropropane	U		0.00147	0.00266	1	04/28/2020 20:00	WG1467660
Di-isopropyl ether	U		0.000437	0.00106	1	04/28/2020 20:00	WG1467660
Ethylbenzene	U		0.000785	0.00266	1	04/28/2020 20:00	WG1467660
Hexachloro-1,3-butadiene	U	J0	0.00639	0.0266	1	04/28/2020 20:00	WG1467660
2-Hexanone	U	J4	0.00358	0.0266	1	04/28/2020 20:00	WG1467660
n-Hexane	U		0.00241	0.00532	1	04/28/2020 20:00	WG1467660
Iodomethane	U		0.00247	0.0133	1	04/28/2020 20:00	WG1467660
Isopropylbenzene	U		0.000453	0.00266	1	04/28/2020 20:00	WG1467660
p-Isopropyltoluene	U		0.00272	0.00532	1	05/01/2020 00:30	WG1469033
2-Butanone (MEK)	U		0.0676	0.106	1	04/28/2020 20:00	WG1467660
Methylene Chloride	U		0.00707	0.0266	1	04/28/2020 20:00	WG1467660
4-Methyl-2-pentanone (MIBK)	U	J4	0.00243	0.0266	1	04/28/2020 20:00	WG1467660

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



Collected date/time: 04/20/20 11:05

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000373	0.00106	1	04/28/2020 20:00	WG1467660
Naphthalene	U	<u>JO</u>	0.00520	0.0133	1	04/28/2020 20:00	WG1467660
n-Propylbenzene	U		0.00101	0.00532	1	04/28/2020 20:00	WG1467660
Styrene	U	<u>J4</u>	0.000244	0.0133	1	04/28/2020 20:00	WG1467660
1,1,1,2-Tetrachloroethane	U		0.00101	0.00266	1	04/28/2020 20:00	WG1467660
1,1,2,2-Tetrachloroethane	U		0.000740	0.00266	1	04/28/2020 20:00	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.000803	0.00266	1	04/28/2020 20:00	WG1467660
Tetrachloroethene	U		0.000954	0.00266	1	04/28/2020 20:00	WG1467660
Toluene	U		0.00138	0.00532	1	04/28/2020 20:00	WG1467660
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.00780	0.0133	1	04/28/2020 20:00	WG1467660
1,2,4-Trichlorobenzene	U		0.00469	0.0133	1	04/28/2020 20:00	WG1467660
1,1,1-Trichloroethane	U		0.000983	0.00266	1	04/28/2020 20:00	WG1467660
1,1,2-Trichloroethane	U		0.000636	0.00266	1	04/28/2020 20:00	WG1467660
Trichloroethene	0.00194		0.000622	0.00106	1	04/28/2020 20:00	WG1467660
Trichlorofluoromethane	U		0.000881	0.00266	1	04/28/2020 20:00	WG1467660
1,2,3-Trichloropropane	U		0.00172	0.0133	1	04/28/2020 20:00	WG1467660
1,2,4-Trimethylbenzene	U		0.00168	0.00532	1	04/28/2020 20:00	WG1467660
1,2,3-Trimethylbenzene	U		0.00168	0.00532	1	04/28/2020 20:00	WG1467660
1,3,5-Trimethylbenzene	U		0.00213	0.00532	1	04/28/2020 20:00	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00270	0.0133	1	04/28/2020 20:00	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00124	0.00266	1	04/28/2020 20:00	WG1467660
Xylenes, Total	U		0.000937	0.00692	1	04/28/2020 20:00	WG1467660
(S) Toluene-d8	112			75.0-131		04/28/2020 20:00	WG1467660
(S) Toluene-d8	105			75.0-131		05/01/2020 00:30	WG1469033
(S) 4-Bromofluorobenzene	103			67.0-138		04/28/2020 20:00	WG1467660
(S) 4-Bromofluorobenzene	98.3			67.0-138		05/01/2020 00:30	WG1469033
(S) 1,2-Dichloroethane-d4	89.5			70.0-130		04/28/2020 20:00	WG1467660
(S) 1,2-Dichloroethane-d4	105			70.0-130		05/01/2020 00:30	WG1469033

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.0		1	05/02/2020 22:02	WG1469315

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0392	0.0538	1	04/28/2020 20:19	WG1467660
Acrylonitrile	U		0.00388	0.0134	1	04/28/2020 20:19	WG1467660
Benzene	U		0.000502	0.00108	1	04/28/2020 20:19	WG1467660
Bromobenzene	U		0.000968	0.0134	1	04/28/2020 20:19	WG1467660
Bromodichloromethane	U		0.000779	0.00269	1	04/28/2020 20:19	WG1467660
Bromochloromethane	U		0.000606	0.00538	1	04/28/2020 20:19	WG1467660
Bromoform	U		0.00126	0.0269	1	04/28/2020 20:19	WG1467660
Bromomethane	U		0.00212	0.0134	1	04/28/2020 20:19	WG1467660
n-Butylbenzene	U		0.00564	0.0134	1	04/28/2020 20:19	WG1467660
sec-Butylbenzene	U		0.00310	0.0134	1	04/28/2020 20:19	WG1467660
tert-Butylbenzene	U		0.00210	0.00538	1	04/28/2020 20:19	WG1467660
Carbon disulfide	U		0.000753	0.0134	1	04/28/2020 20:19	WG1467660
Carbon tetrachloride	U		0.000965	0.00538	1	04/28/2020 20:19	WG1467660
Chlorobenzene	U		0.000226	0.00269	1	04/28/2020 20:19	WG1467660
Chlorodibromomethane	U		0.000658	0.00269	1	04/28/2020 20:19	WG1467660
Chloroethane	U		0.00183	0.00538	1	04/28/2020 20:19	WG1467660
Chloroform	U		0.00111	0.00269	1	04/28/2020 20:19	WG1467660
Chloromethane	U	J0	0.00468	0.0134	1	04/28/2020 20:19	WG1467660
2-Chlorotoluene	U		0.000930	0.00269	1	04/28/2020 20:19	WG1467660
4-Chlorotoluene	U		0.000484	0.00538	1	04/28/2020 20:19	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00419	0.0269	1	04/28/2020 20:19	WG1467660
1,2-Dibromoethane	U		0.000697	0.00269	1	04/28/2020 20:19	WG1467660
Dibromomethane	U		0.000806	0.00538	1	04/28/2020 20:19	WG1467660
1,2-Dichlorobenzene	U		0.000457	0.00538	1	04/28/2020 20:19	WG1467660
1,3-Dichlorobenzene	U		0.000645	0.00538	1	04/28/2020 20:19	WG1467660
1,4-Dichlorobenzene	U		0.000753	0.00538	1	04/28/2020 20:19	WG1467660
Dichlorodifluoromethane	U		0.00173	0.00269	1	04/28/2020 20:19	WG1467660
1,1-Dichloroethane	U		0.000528	0.00269	1	04/28/2020 20:19	WG1467660
1,2-Dichloroethane	U		0.000698	0.00269	1	04/28/2020 20:19	WG1467660
1,1-Dichloroethene	U		0.000652	0.00269	1	04/28/2020 20:19	WG1467660
cis-1,2-Dichloroethene	U		0.000789	0.00269	1	04/28/2020 20:19	WG1467660
trans-1,2-Dichloroethene	U		0.00112	0.00538	1	04/28/2020 20:19	WG1467660
1,2-Dichloropropane	U	J4	0.00153	0.00538	1	04/28/2020 20:19	WG1467660
1,1-Dichloropropene	U		0.000870	0.00269	1	04/28/2020 20:19	WG1467660
1,3-Dichloropropane	U		0.000539	0.00538	1	04/28/2020 20:19	WG1467660
cis-1,3-Dichloropropene	U		0.000814	0.00269	1	04/28/2020 20:19	WG1467660
trans-1,3-Dichloropropene	U		0.00123	0.00538	1	04/28/2020 20:19	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00200	0.00538	1	04/28/2020 20:19	WG1467660
2,2-Dichloropropane	U		0.00148	0.00269	1	04/28/2020 20:19	WG1467660
Di-isopropyl ether	U		0.000441	0.00108	1	04/28/2020 20:19	WG1467660
Ethylbenzene	U		0.000792	0.00269	1	04/28/2020 20:19	WG1467660
Hexachloro-1,3-butadiene	U	J0	0.00645	0.0269	1	04/28/2020 20:19	WG1467660
2-Hexanone	U	J4	0.00361	0.0269	1	04/28/2020 20:19	WG1467660
n-Hexane	U		0.00243	0.00538	1	04/28/2020 20:19	WG1467660
Iodomethane	U		0.00249	0.0134	1	04/28/2020 20:19	WG1467660
Isopropylbenzene	U		0.000457	0.00269	1	04/28/2020 20:19	WG1467660
p-Isopropyltoluene	U		0.00274	0.00538	1	05/01/2020 00:50	WG1469033
2-Butanone (MEK)	U		0.0683	0.108	1	04/28/2020 20:19	WG1467660
Methylene Chloride	U		0.00714	0.0269	1	04/28/2020 20:19	WG1467660
4-Methyl-2-pentanone (MIBK)	U	J4	0.00245	0.0269	1	04/28/2020 20:19	WG1467660

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



Collected date/time: 04/20/20 11:07

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000376	0.00108	1	04/28/2020 20:19	WG1467660
Naphthalene	U	<u>J0</u>	0.00525	0.0134	1	04/28/2020 20:19	WG1467660
n-Propylbenzene	U		0.00102	0.00538	1	04/28/2020 20:19	WG1467660
Styrene	U	<u>J4</u>	0.000246	0.0134	1	04/28/2020 20:19	WG1467660
1,1,1,2-Tetrachloroethane	U		0.00102	0.00269	1	04/28/2020 20:19	WG1467660
1,1,2,2-Tetrachloroethane	U		0.000747	0.00269	1	04/28/2020 20:19	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.000811	0.00269	1	04/28/2020 20:19	WG1467660
Tetrachloroethene	U		0.000963	0.00269	1	04/28/2020 20:19	WG1467660
Toluene	U		0.00140	0.00538	1	04/28/2020 20:19	WG1467660
1,2,3-Trichlorobenzene	U	<u>J0</u>	0.00788	0.0134	1	04/28/2020 20:19	WG1467660
1,2,4-Trichlorobenzene	U		0.00473	0.0134	1	04/28/2020 20:19	WG1467660
1,1,1-Trichloroethane	U		0.000992	0.00269	1	04/28/2020 20:19	WG1467660
1,1,2-Trichloroethane	U		0.000642	0.00269	1	04/28/2020 20:19	WG1467660
Trichloroethene	0.00335		0.000628	0.00108	1	04/28/2020 20:19	WG1467660
Trichlorofluoromethane	U		0.000889	0.00269	1	04/28/2020 20:19	WG1467660
1,2,3-Trichloropropane	U		0.00174	0.0134	1	04/28/2020 20:19	WG1467660
1,2,4-Trimethylbenzene	U		0.00170	0.00538	1	04/28/2020 20:19	WG1467660
1,2,3-Trimethylbenzene	U		0.00170	0.00538	1	04/28/2020 20:19	WG1467660
1,3,5-Trimethylbenzene	U		0.00215	0.00538	1	04/28/2020 20:19	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00273	0.0134	1	04/28/2020 20:19	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00125	0.00269	1	04/28/2020 20:19	WG1467660
Xylenes, Total	U		0.000946	0.00699	1	04/28/2020 20:19	WG1467660
(S) Toluene-d8	110			75.0-131		04/28/2020 20:19	WG1467660
(S) Toluene-d8	106			75.0-131		05/01/2020 00:50	WG1469033
(S) 4-Bromofluorobenzene	103			67.0-138		04/28/2020 20:19	WG1467660
(S) 4-Bromofluorobenzene	94.1			67.0-138		05/01/2020 00:50	WG1469033
(S) 1,2-Dichloroethane-d4	88.7			70.0-130		04/28/2020 20:19	WG1467660
(S) 1,2-Dichloroethane-d4	104			70.0-130		05/01/2020 00:50	WG1469033

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.8		1	05/02/2020 22:02	WG1469315

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0393	0.0539	1	04/28/2020 20:38	WG1467660
Acrylonitrile	U		0.00389	0.0135	1	04/28/2020 20:38	WG1467660
Benzene	U		0.000503	0.00108	1	04/28/2020 20:38	WG1467660
Bromobenzene	U		0.000969	0.0135	1	04/28/2020 20:38	WG1467660
Bromodichloromethane	U		0.000781	0.00269	1	04/28/2020 20:38	WG1467660
Bromochloromethane	U		0.000607	0.00539	1	04/28/2020 20:38	WG1467660
Bromoform	U		0.00126	0.0269	1	04/28/2020 20:38	WG1467660
Bromomethane	U		0.00212	0.0135	1	04/28/2020 20:38	WG1467660
n-Butylbenzene	U		0.00565	0.0135	1	04/28/2020 20:38	WG1467660
sec-Butylbenzene	U		0.00310	0.0135	1	04/28/2020 20:38	WG1467660
tert-Butylbenzene	U		0.00210	0.00539	1	04/28/2020 20:38	WG1467660
Carbon disulfide	U		0.000754	0.0135	1	04/28/2020 20:38	WG1467660
Carbon tetrachloride	U		0.000967	0.00539	1	04/28/2020 20:38	WG1467660
Chlorobenzene	U		0.000226	0.00269	1	04/28/2020 20:38	WG1467660
Chlorodibromomethane	U		0.000659	0.00269	1	04/28/2020 20:38	WG1467660
Chloroethane	U		0.00183	0.00539	1	04/28/2020 20:38	WG1467660
Chloroform	U		0.00111	0.00269	1	04/28/2020 20:38	WG1467660
Chloromethane	U	J0	0.00469	0.0135	1	04/28/2020 20:38	WG1467660
2-Chlorotoluene	U		0.000932	0.00269	1	04/28/2020 20:38	WG1467660
4-Chlorotoluene	U		0.000485	0.00539	1	04/28/2020 20:38	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00420	0.0269	1	04/28/2020 20:38	WG1467660
1,2-Dibromoethane	U		0.000698	0.00269	1	04/28/2020 20:38	WG1467660
Dibromomethane	U		0.000808	0.00539	1	04/28/2020 20:38	WG1467660
1,2-Dichlorobenzene	U		0.000458	0.00539	1	04/28/2020 20:38	WG1467660
1,3-Dichlorobenzene	U		0.000646	0.00539	1	04/28/2020 20:38	WG1467660
1,4-Dichlorobenzene	U		0.000754	0.00539	1	04/28/2020 20:38	WG1467660
Dichlorodifluoromethane	U		0.00173	0.00269	1	04/28/2020 20:38	WG1467660
1,1-Dichloroethane	U		0.000529	0.00269	1	04/28/2020 20:38	WG1467660
1,2-Dichloroethane	U		0.000699	0.00269	1	04/28/2020 20:38	WG1467660
1,1-Dichloroethene	U		0.000653	0.00269	1	04/28/2020 20:38	WG1467660
cis-1,2-Dichloroethene	U		0.000791	0.00269	1	04/28/2020 20:38	WG1467660
trans-1,2-Dichloroethene	U		0.00112	0.00539	1	04/28/2020 20:38	WG1467660
1,2-Dichloropropane	U	J4	0.00153	0.00539	1	04/28/2020 20:38	WG1467660
1,1-Dichloropropene	U		0.000871	0.00269	1	04/28/2020 20:38	WG1467660
1,3-Dichloropropane	U		0.000540	0.00539	1	04/28/2020 20:38	WG1467660
cis-1,3-Dichloropropene	U		0.000815	0.00269	1	04/28/2020 20:38	WG1467660
trans-1,3-Dichloropropene	U		0.00123	0.00539	1	04/28/2020 20:38	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00200	0.00539	1	04/28/2020 20:38	WG1467660
2,2-Dichloropropane	U		0.00149	0.00269	1	04/28/2020 20:38	WG1467660
Di-isopropyl ether	U		0.000442	0.00108	1	04/28/2020 20:38	WG1467660
Ethylbenzene	U		0.000794	0.00269	1	04/28/2020 20:38	WG1467660
Hexachloro-1,3-butadiene	U	J0	0.00646	0.0269	1	04/28/2020 20:38	WG1467660
2-Hexanone	U	J4	0.00362	0.0269	1	04/28/2020 20:38	WG1467660
n-Hexane	U		0.00243	0.00539	1	04/28/2020 20:38	WG1467660
Iodomethane	U		0.00250	0.0135	1	04/28/2020 20:38	WG1467660
Isopropylbenzene	U		0.000458	0.00269	1	04/28/2020 20:38	WG1467660
p-Isopropyltoluene	U		0.00275	0.00539	1	05/01/2020 01:09	WG1469033
2-Butanone (MEK)	U		0.0684	0.108	1	04/28/2020 20:38	WG1467660
Methylene Chloride	U		0.00715	0.0269	1	04/28/2020 20:38	WG1467660
4-Methyl-2-pentanone (MIBK)	U	J4	0.00246	0.0269	1	04/28/2020 20:38	WG1467660

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000377	0.00108	1	04/28/2020 20:38	WG1467660
Naphthalene	U	<u>J0</u>	0.00526	0.0135	1	04/28/2020 20:38	WG1467660
n-Propylbenzene	U		0.00102	0.00539	1	04/28/2020 20:38	WG1467660
Styrene	U	<u>J4</u>	0.000247	0.0135	1	04/28/2020 20:38	WG1467660
1,1,1,2-Tetrachloroethane	U		0.00102	0.00269	1	04/28/2020 20:38	WG1467660
1,1,2,2-Tetrachloroethane	U		0.000749	0.00269	1	04/28/2020 20:38	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.000812	0.00269	1	04/28/2020 20:38	WG1467660
Tetrachloroethene	0.00128	<u>J</u>	0.000965	0.00269	1	04/28/2020 20:38	WG1467660
Toluene	U		0.00140	0.00539	1	04/28/2020 20:38	WG1467660
1,2,3-Trichlorobenzene	U	<u>J0</u>	0.00790	0.0135	1	04/28/2020 20:38	WG1467660
1,2,4-Trichlorobenzene	U		0.00474	0.0135	1	04/28/2020 20:38	WG1467660
1,1,1-Trichloroethane	U		0.000994	0.00269	1	04/28/2020 20:38	WG1467660
1,1,2-Trichloroethane	U		0.000643	0.00269	1	04/28/2020 20:38	WG1467660
Trichloroethene	0.00868		0.000629	0.00108	1	04/28/2020 20:38	WG1467660
Trichlorofluoromethane	U		0.000891	0.00269	1	04/28/2020 20:38	WG1467660
1,2,3-Trichloropropane	U		0.00174	0.0135	1	04/28/2020 20:38	WG1467660
1,2,4-Trimethylbenzene	U		0.00170	0.00539	1	04/28/2020 20:38	WG1467660
1,2,3-Trimethylbenzene	U		0.00170	0.00539	1	04/28/2020 20:38	WG1467660
1,3,5-Trimethylbenzene	U		0.00215	0.00539	1	04/28/2020 20:38	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00274	0.0135	1	04/28/2020 20:38	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00125	0.00269	1	04/28/2020 20:38	WG1467660
Xylenes, Total	U		0.000948	0.00700	1	04/28/2020 20:38	WG1467660
(S) Toluene-d8	112			75.0-131		04/28/2020 20:38	WG1467660
(S) Toluene-d8	107			75.0-131		05/01/2020 01:09	WG1469033
(S) 4-Bromofluorobenzene	96.4			67.0-138		04/28/2020 20:38	WG1467660
(S) 4-Bromofluorobenzene	96.0			67.0-138		05/01/2020 01:09	WG1469033
(S) 1,2-Dichloroethane-d4	88.1			70.0-130		04/28/2020 20:38	WG1467660
(S) 1,2-Dichloroethane-d4	104			70.0-130		05/01/2020 01:09	WG1469033

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.9		1	05/04/2020 15:42	WG1469317

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0393	0.0538	1	04/28/2020 20:57	WG1467660
Acrylonitrile	U		0.00388	0.0134	1	04/28/2020 20:57	WG1467660
Benzene	U		0.000502	0.00108	1	04/28/2020 20:57	WG1467660
Bromobenzene	U		0.000968	0.0134	1	04/28/2020 20:57	WG1467660
Bromodichloromethane	U		0.000780	0.00269	1	04/28/2020 20:57	WG1467660
Bromochloromethane	U		0.000607	0.00538	1	04/28/2020 20:57	WG1467660
Bromoform	U		0.00126	0.0269	1	04/28/2020 20:57	WG1467660
Bromomethane	U		0.00212	0.0134	1	04/28/2020 20:57	WG1467660
n-Butylbenzene	U		0.00565	0.0134	1	04/28/2020 20:57	WG1467660
sec-Butylbenzene	U		0.00310	0.0134	1	04/28/2020 20:57	WG1467660
tert-Butylbenzene	U		0.00210	0.00538	1	04/28/2020 20:57	WG1467660
Carbon disulfide	U		0.000753	0.0134	1	04/28/2020 20:57	WG1467660
Carbon tetrachloride	U		0.000966	0.00538	1	04/28/2020 20:57	WG1467660
Chlorobenzene	U		0.000226	0.00269	1	04/28/2020 20:57	WG1467660
Chlorodibromomethane	U		0.000658	0.00269	1	04/28/2020 20:57	WG1467660
Chloroethane	U		0.00183	0.00538	1	04/28/2020 20:57	WG1467660
Chloroform	U		0.00111	0.00269	1	04/28/2020 20:57	WG1467660
Chloromethane	U	J0	0.00468	0.0134	1	04/28/2020 20:57	WG1467660
2-Chlorotoluene	U		0.000931	0.00269	1	04/28/2020 20:57	WG1467660
4-Chlorotoluene	U		0.000484	0.00538	1	04/28/2020 20:57	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00420	0.0269	1	04/28/2020 20:57	WG1467660
1,2-Dibromoethane	U		0.000697	0.00269	1	04/28/2020 20:57	WG1467660
Dibromomethane	U		0.000807	0.00538	1	04/28/2020 20:57	WG1467660
1,2-Dichlorobenzene	U		0.000457	0.00538	1	04/28/2020 20:57	WG1467660
1,3-Dichlorobenzene	U		0.000646	0.00538	1	04/28/2020 20:57	WG1467660
1,4-Dichlorobenzene	U		0.000753	0.00538	1	04/28/2020 20:57	WG1467660
Dichlorodifluoromethane	U		0.00173	0.00269	1	04/28/2020 20:57	WG1467660
1,1-Dichloroethane	U		0.000528	0.00269	1	04/28/2020 20:57	WG1467660
1,2-Dichloroethane	U		0.000698	0.00269	1	04/28/2020 20:57	WG1467660
1,1-Dichloroethene	U		0.000652	0.00269	1	04/28/2020 20:57	WG1467660
cis-1,2-Dichloroethene	U		0.000790	0.00269	1	04/28/2020 20:57	WG1467660
trans-1,2-Dichloroethene	U		0.00112	0.00538	1	04/28/2020 20:57	WG1467660
1,2-Dichloropropane	U	J4	0.00153	0.00538	1	04/28/2020 20:57	WG1467660
1,1-Dichloropropene	U		0.000870	0.00269	1	04/28/2020 20:57	WG1467660
1,3-Dichloropropane	U		0.000539	0.00538	1	04/28/2020 20:57	WG1467660
cis-1,3-Dichloropropene	U		0.000814	0.00269	1	04/28/2020 20:57	WG1467660
trans-1,3-Dichloropropene	U		0.00123	0.00538	1	04/28/2020 20:57	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00200	0.00538	1	04/28/2020 20:57	WG1467660
2,2-Dichloropropane	U		0.00148	0.00269	1	04/28/2020 20:57	WG1467660
Di-isopropyl ether	U		0.000441	0.00108	1	04/28/2020 20:57	WG1467660
Ethylbenzene	U		0.000793	0.00269	1	04/28/2020 20:57	WG1467660
Hexachloro-1,3-butadiene	U	J0	0.00646	0.0269	1	04/28/2020 20:57	WG1467660
2-Hexanone	U	J4	0.00361	0.0269	1	04/28/2020 20:57	WG1467660
n-Hexane	U		0.00243	0.00538	1	04/28/2020 20:57	WG1467660
Iodomethane	U		0.00250	0.0134	1	04/28/2020 20:57	WG1467660
Isopropylbenzene	U		0.000457	0.00269	1	04/28/2020 20:57	WG1467660
p-Isopropyltoluene	U		0.00274	0.00538	1	04/28/2020 20:57	WG1467660
2-Butanone (MEK)	U		0.0683	0.108	1	04/28/2020 20:57	WG1467660
Methylene Chloride	U		0.00714	0.0269	1	04/28/2020 20:57	WG1467660
4-Methyl-2-pentanone (MIBK)	U	J4	0.00245	0.0269	1	04/28/2020 20:57	WG1467660

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000377	0.00108	1	04/28/2020 20:57	WG1467660
Naphthalene	U	<u>J0</u>	0.00525	0.0134	1	04/28/2020 20:57	WG1467660
n-Propylbenzene	U		0.00102	0.00538	1	04/28/2020 20:57	WG1467660
Styrene	U	<u>J4</u>	0.000246	0.0134	1	04/28/2020 20:57	WG1467660
1,1,1,2-Tetrachloroethane	U		0.00102	0.00269	1	04/28/2020 20:57	WG1467660
1,1,2,2-Tetrachloroethane	U		0.000748	0.00269	1	04/28/2020 20:57	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.000811	0.00269	1	04/28/2020 20:57	WG1467660
Tetrachloroethene	U		0.000964	0.00269	1	04/28/2020 20:57	WG1467660
Toluene	U		0.00140	0.00538	1	04/28/2020 20:57	WG1467660
1,2,3-Trichlorobenzene	U	<u>J0</u>	0.00789	0.0134	1	04/28/2020 20:57	WG1467660
1,2,4-Trichlorobenzene	U		0.00473	0.0134	1	04/28/2020 20:57	WG1467660
1,1,1-Trichloroethane	U		0.000993	0.00269	1	04/28/2020 20:57	WG1467660
1,1,2-Trichloroethane	U		0.000642	0.00269	1	04/28/2020 20:57	WG1467660
Trichloroethene	U		0.000628	0.00108	1	04/28/2020 20:57	WG1467660
Trichlorofluoromethane	U		0.000890	0.00269	1	04/28/2020 20:57	WG1467660
1,2,3-Trichloropropane	U		0.00174	0.0134	1	04/28/2020 20:57	WG1467660
1,2,4-Trimethylbenzene	U		0.00170	0.00538	1	04/28/2020 20:57	WG1467660
1,2,3-Trimethylbenzene	U		0.00170	0.00538	1	04/28/2020 20:57	WG1467660
1,3,5-Trimethylbenzene	U		0.00215	0.00538	1	04/28/2020 20:57	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00273	0.0134	1	04/28/2020 20:57	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00125	0.00269	1	04/28/2020 20:57	WG1467660
Xylenes, Total	U		0.000947	0.00699	1	04/28/2020 20:57	WG1467660
(S) Toluene-d8	112			75.0-131		04/28/2020 20:57	WG1467660
(S) 4-Bromofluorobenzene	103			67.0-138		04/28/2020 20:57	WG1467660
(S) 1,2-Dichloroethane-d4	90.4			70.0-130		04/28/2020 20:57	WG1467660

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.5		1	05/04/2020 15:42	WG1469317

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0382	0.0523	1	04/28/2020 21:16	WG1467660
Acrylonitrile	U		0.00378	0.0131	1	04/28/2020 21:16	WG1467660
Benzene	U		0.000489	0.00105	1	04/28/2020 21:16	WG1467660
Bromobenzene	U		0.000942	0.0131	1	04/28/2020 21:16	WG1467660
Bromodichloromethane	U		0.000759	0.00262	1	04/28/2020 21:16	WG1467660
Bromochloromethane	U		0.000590	0.00523	1	04/28/2020 21:16	WG1467660
Bromoform	U		0.00122	0.0262	1	04/28/2020 21:16	WG1467660
Bromomethane	U		0.00206	0.0131	1	04/28/2020 21:16	WG1467660
n-Butylbenzene	U		0.00550	0.0131	1	04/28/2020 21:16	WG1467660
sec-Butylbenzene	U		0.00302	0.0131	1	04/28/2020 21:16	WG1467660
tert-Butylbenzene	U		0.00204	0.00523	1	04/28/2020 21:16	WG1467660
Carbon disulfide	0.00310	<u>J</u>	0.000733	0.0131	1	04/28/2020 21:16	WG1467660
Carbon tetrachloride	U		0.000940	0.00523	1	04/28/2020 21:16	WG1467660
Chlorobenzene	U		0.000220	0.00262	1	04/28/2020 21:16	WG1467660
Chlorodibromomethane	U		0.000641	0.00262	1	04/28/2020 21:16	WG1467660
Chloroethane	U		0.00178	0.00523	1	04/28/2020 21:16	WG1467660
Chloroform	U		0.00108	0.00262	1	04/28/2020 21:16	WG1467660
Chloromethane	U	<u>JO</u>	0.00455	0.0131	1	04/28/2020 21:16	WG1467660
2-Chlorotoluene	U		0.000906	0.00262	1	04/28/2020 21:16	WG1467660
4-Chlorotoluene	U		0.000471	0.00523	1	04/28/2020 21:16	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00408	0.0262	1	04/28/2020 21:16	WG1467660
1,2-Dibromoethane	U		0.000678	0.00262	1	04/28/2020 21:16	WG1467660
Dibromomethane	U		0.000785	0.00523	1	04/28/2020 21:16	WG1467660
1,2-Dichlorobenzene	U		0.000445	0.00523	1	04/28/2020 21:16	WG1467660
1,3-Dichlorobenzene	U		0.000628	0.00523	1	04/28/2020 21:16	WG1467660
1,4-Dichlorobenzene	U		0.000733	0.00523	1	04/28/2020 21:16	WG1467660
Dichlorodifluoromethane	U		0.00169	0.00262	1	04/28/2020 21:16	WG1467660
1,1-Dichloroethane	U		0.000514	0.00262	1	04/28/2020 21:16	WG1467660
1,2-Dichloroethane	U		0.000679	0.00262	1	04/28/2020 21:16	WG1467660
1,1-Dichloroethene	U		0.000634	0.00262	1	04/28/2020 21:16	WG1467660
cis-1,2-Dichloroethene	U		0.000768	0.00262	1	04/28/2020 21:16	WG1467660
trans-1,2-Dichloroethene	U		0.00109	0.00523	1	04/28/2020 21:16	WG1467660
1,2-Dichloropropane	U	<u>J4</u>	0.00149	0.00523	1	04/28/2020 21:16	WG1467660
1,1-Dichloropropene	U		0.000847	0.00262	1	04/28/2020 21:16	WG1467660
1,3-Dichloropropane	U		0.000525	0.00523	1	04/28/2020 21:16	WG1467660
cis-1,3-Dichloropropene	U		0.000793	0.00262	1	04/28/2020 21:16	WG1467660
trans-1,3-Dichloropropene	U		0.00119	0.00523	1	04/28/2020 21:16	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00195	0.00523	1	04/28/2020 21:16	WG1467660
2,2-Dichloropropane	U		0.00144	0.00262	1	04/28/2020 21:16	WG1467660
Di-isopropyl ether	U		0.000429	0.00105	1	04/28/2020 21:16	WG1467660
Ethylbenzene	U		0.000772	0.00262	1	04/28/2020 21:16	WG1467660
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.00628	0.0262	1	04/28/2020 21:16	WG1467660
2-Hexanone	U	<u>J4</u>	0.00352	0.0262	1	04/28/2020 21:16	WG1467660
n-Hexane	U		0.00237	0.00523	1	04/28/2020 21:16	WG1467660
Iodomethane	U		0.00243	0.0131	1	04/28/2020 21:16	WG1467660
Isopropylbenzene	U		0.000445	0.00262	1	04/28/2020 21:16	WG1467660
p-Isopropyltoluene	U		0.00267	0.00523	1	04/28/2020 21:16	WG1467660
2-Butanone (MEK)	U		0.0665	0.105	1	04/28/2020 21:16	WG1467660
Methylene Chloride	U		0.00695	0.0262	1	04/28/2020 21:16	WG1467660
4-Methyl-2-pentanone (MIBK)	U	<u>J4</u>	0.00239	0.0262	1	04/28/2020 21:16	WG1467660

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000366	0.00105	1	04/28/2020 21:16	WG1467660
Naphthalene	U	<u>J0</u>	0.00511	0.0131	1	04/28/2020 21:16	WG1467660
n-Propylbenzene	U		0.000995	0.00523	1	04/28/2020 21:16	WG1467660
Styrene	U	<u>J4</u>	0.000240	0.0131	1	04/28/2020 21:16	WG1467660
1,1,1,2-Tetrachloroethane	U		0.000993	0.00262	1	04/28/2020 21:16	WG1467660
1,1,2,2-Tetrachloroethane	U		0.000728	0.00262	1	04/28/2020 21:16	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.000789	0.00262	1	04/28/2020 21:16	WG1467660
Tetrachloroethene	U		0.000938	0.00262	1	04/28/2020 21:16	WG1467660
Toluene	U		0.00136	0.00523	1	04/28/2020 21:16	WG1467660
1,2,3-Trichlorobenzene	U	<u>J0</u>	0.00767	0.0131	1	04/28/2020 21:16	WG1467660
1,2,4-Trichlorobenzene	U		0.00461	0.0131	1	04/28/2020 21:16	WG1467660
1,1,1-Trichloroethane	U		0.000966	0.00262	1	04/28/2020 21:16	WG1467660
1,1,2-Trichloroethane	U		0.000625	0.00262	1	04/28/2020 21:16	WG1467660
Trichloroethene	U		0.000611	0.00105	1	04/28/2020 21:16	WG1467660
Trichlorofluoromethane	U		0.000866	0.00262	1	04/28/2020 21:16	WG1467660
1,2,3-Trichloropropane	U		0.00170	0.0131	1	04/28/2020 21:16	WG1467660
1,2,4-Trimethylbenzene	U		0.00165	0.00523	1	04/28/2020 21:16	WG1467660
1,2,3-Trimethylbenzene	U		0.00165	0.00523	1	04/28/2020 21:16	WG1467660
1,3,5-Trimethylbenzene	U		0.00209	0.00523	1	04/28/2020 21:16	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00266	0.0131	1	04/28/2020 21:16	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00121	0.00262	1	04/28/2020 21:16	WG1467660
Xylenes, Total	0.00161	<u>J</u>	0.000921	0.00681	1	04/28/2020 21:16	WG1467660
(S) Toluene-d8	111			75.0-131		04/28/2020 21:16	WG1467660
(S) 4-Bromofluorobenzene	104			67.0-138		04/28/2020 21:16	WG1467660
(S) 1,2-Dichloroethane-d4	90.9			70.0-130		04/28/2020 21:16	WG1467660

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.3		1	05/04/2020 15:42	WG1469317

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0413	0.0566	1	04/28/2020 21:35	WG1467660
Acrylonitrile	U		0.00409	0.0142	1	04/28/2020 21:35	WG1467660
Benzene	U		0.000529	0.00113	1	04/28/2020 21:35	WG1467660
Bromobenzene	U		0.00102	0.0142	1	04/28/2020 21:35	WG1467660
Bromodichloromethane	U		0.000821	0.00283	1	04/28/2020 21:35	WG1467660
Bromochloromethane	U		0.000638	0.00566	1	04/28/2020 21:35	WG1467660
Bromoform	U		0.00132	0.0283	1	04/28/2020 21:35	WG1467660
Bromomethane	U		0.00223	0.0142	1	04/28/2020 21:35	WG1467660
n-Butylbenzene	U		0.00594	0.0142	1	04/28/2020 21:35	WG1467660
sec-Butylbenzene	U		0.00326	0.0142	1	04/28/2020 21:35	WG1467660
tert-Butylbenzene	U		0.00221	0.00566	1	04/28/2020 21:35	WG1467660
Carbon disulfide	0.00231	<u>J</u>	0.000792	0.0142	1	04/28/2020 21:35	WG1467660
Carbon tetrachloride	U		0.00102	0.00566	1	04/28/2020 21:35	WG1467660
Chlorobenzene	U		0.000238	0.00283	1	04/28/2020 21:35	WG1467660
Chlorodibromomethane	U		0.000693	0.00283	1	04/28/2020 21:35	WG1467660
Chloroethane	U		0.00192	0.00566	1	04/28/2020 21:35	WG1467660
Chloroform	U		0.00117	0.00283	1	04/28/2020 21:35	WG1467660
Chloromethane	U	<u>JO</u>	0.00492	0.0142	1	04/28/2020 21:35	WG1467660
2-Chlorotoluene	U		0.000979	0.00283	1	04/28/2020 21:35	WG1467660
4-Chlorotoluene	U		0.000509	0.00566	1	04/28/2020 21:35	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00441	0.0283	1	04/28/2020 21:35	WG1467660
1,2-Dibromoethane	U		0.000734	0.00283	1	04/28/2020 21:35	WG1467660
Dibromomethane	U		0.000849	0.00566	1	04/28/2020 21:35	WG1467660
1,2-Dichlorobenzene	U		0.000481	0.00566	1	04/28/2020 21:35	WG1467660
1,3-Dichlorobenzene	U		0.000679	0.00566	1	04/28/2020 21:35	WG1467660
1,4-Dichlorobenzene	U		0.000792	0.00566	1	04/28/2020 21:35	WG1467660
Dichlorodifluoromethane	U		0.00182	0.00283	1	04/28/2020 21:35	WG1467660
1,1-Dichloroethane	U		0.000556	0.00283	1	04/28/2020 21:35	WG1467660
1,2-Dichloroethane	U		0.000735	0.00283	1	04/28/2020 21:35	WG1467660
1,1-Dichloroethene	U		0.000686	0.00283	1	04/28/2020 21:35	WG1467660
cis-1,2-Dichloroethene	U		0.000831	0.00283	1	04/28/2020 21:35	WG1467660
trans-1,2-Dichloroethene	U		0.00118	0.00566	1	04/28/2020 21:35	WG1467660
1,2-Dichloropropane	U	<u>J4</u>	0.00161	0.00566	1	04/28/2020 21:35	WG1467660
1,1-Dichloropropene	U		0.000916	0.00283	1	04/28/2020 21:35	WG1467660
1,3-Dichloropropane	U		0.000567	0.00566	1	04/28/2020 21:35	WG1467660
cis-1,3-Dichloropropene	U		0.000857	0.00283	1	04/28/2020 21:35	WG1467660
trans-1,3-Dichloropropene	U		0.00129	0.00566	1	04/28/2020 21:35	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00211	0.00566	1	04/28/2020 21:35	WG1467660
2,2-Dichloropropane	U		0.00156	0.00283	1	04/28/2020 21:35	WG1467660
Di-isopropyl ether	U		0.000464	0.00113	1	04/28/2020 21:35	WG1467660
Ethylbenzene	U		0.000834	0.00283	1	04/28/2020 21:35	WG1467660
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.00679	0.0283	1	04/28/2020 21:35	WG1467660
2-Hexanone	U	<u>J4</u>	0.00380	0.0283	1	04/28/2020 21:35	WG1467660
n-Hexane	U		0.00256	0.00566	1	04/28/2020 21:35	WG1467660
Iodomethane	U		0.00263	0.0142	1	04/28/2020 21:35	WG1467660
Isopropylbenzene	U		0.000481	0.00283	1	04/28/2020 21:35	WG1467660
p-Isopropyltoluene	U		0.00289	0.00566	1	04/28/2020 21:35	WG1467660
2-Butanone (MEK)	U		0.0719	0.113	1	04/28/2020 21:35	WG1467660
Methylene Chloride	U		0.00752	0.0283	1	04/28/2020 21:35	WG1467660
4-Methyl-2-pentanone (MIBK)	U	<u>J4</u>	0.00258	0.0283	1	04/28/2020 21:35	WG1467660

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



Collected date/time: 04/20/20 12:07

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000396	0.00113	1	04/28/2020 21:35	WG1467660
Naphthalene	U	<u>J0</u>	0.00552	0.0142	1	04/28/2020 21:35	WG1467660
n-Propylbenzene	U		0.00108	0.00566	1	04/28/2020 21:35	WG1467660
Styrene	U	<u>J4</u>	0.000259	0.0142	1	04/28/2020 21:35	WG1467660
1,1,1,2-Tetrachloroethane	U		0.00107	0.00283	1	04/28/2020 21:35	WG1467660
1,1,2,2-Tetrachloroethane	U		0.000787	0.00283	1	04/28/2020 21:35	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.000854	0.00283	1	04/28/2020 21:35	WG1467660
Tetrachloroethene	U		0.00101	0.00283	1	04/28/2020 21:35	WG1467660
Toluene	U		0.00147	0.00566	1	04/28/2020 21:35	WG1467660
1,2,3-Trichlorobenzene	U	<u>J0</u>	0.00830	0.0142	1	04/28/2020 21:35	WG1467660
1,2,4-Trichlorobenzene	U		0.00498	0.0142	1	04/28/2020 21:35	WG1467660
1,1,1-Trichloroethane	U		0.00104	0.00283	1	04/28/2020 21:35	WG1467660
1,1,2-Trichloroethane	U		0.000676	0.00283	1	04/28/2020 21:35	WG1467660
Trichloroethene	U		0.000661	0.00113	1	04/28/2020 21:35	WG1467660
Trichlorofluoromethane	U		0.000936	0.00283	1	04/28/2020 21:35	WG1467660
1,2,3-Trichloropropane	U		0.00183	0.0142	1	04/28/2020 21:35	WG1467660
1,2,4-Trimethylbenzene	U		0.00179	0.00566	1	04/28/2020 21:35	WG1467660
1,2,3-Trimethylbenzene	U		0.00179	0.00566	1	04/28/2020 21:35	WG1467660
1,3,5-Trimethylbenzene	U		0.00226	0.00566	1	04/28/2020 21:35	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00288	0.0142	1	04/28/2020 21:35	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00131	0.00283	1	04/28/2020 21:35	WG1467660
Xylenes, Total	U		0.000996	0.00736	1	04/28/2020 21:35	WG1467660
(S) Toluene-d8	113			75.0-131		04/28/2020 21:35	WG1467660
(S) 4-Bromofluorobenzene	102			67.0-138		04/28/2020 21:35	WG1467660
(S) 1,2-Dichloroethane-d4	90.7			70.0-130		04/28/2020 21:35	WG1467660

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.1		1	05/04/2020 15:42	WG1469317

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0401	0.0549	1	04/28/2020 21:54	WG1467660
Acrylonitrile	U		0.00396	0.0137	1	04/28/2020 21:54	WG1467660
Benzene	U		0.000513	0.00110	1	04/28/2020 21:54	WG1467660
Bromobenzene	U		0.000988	0.0137	1	04/28/2020 21:54	WG1467660
Bromodichloromethane	U		0.000796	0.00274	1	04/28/2020 21:54	WG1467660
Bromochloromethane	U		0.000619	0.00549	1	04/28/2020 21:54	WG1467660
Bromoform	U		0.00128	0.0274	1	04/28/2020 21:54	WG1467660
Bromomethane	U		0.00216	0.0137	1	04/28/2020 21:54	WG1467660
n-Butylbenzene	U		0.00576	0.0137	1	04/28/2020 21:54	WG1467660
sec-Butylbenzene	U		0.00316	0.0137	1	04/28/2020 21:54	WG1467660
tert-Butylbenzene	U		0.00214	0.00549	1	04/28/2020 21:54	WG1467660
Carbon disulfide	0.00138	<u>J</u>	0.000768	0.0137	1	04/28/2020 21:54	WG1467660
Carbon tetrachloride	U		0.000986	0.00549	1	04/28/2020 21:54	WG1467660
Chlorobenzene	U		0.000231	0.00274	1	04/28/2020 21:54	WG1467660
Chlorodibromomethane	U		0.000672	0.00274	1	04/28/2020 21:54	WG1467660
Chloroethane	U		0.00187	0.00549	1	04/28/2020 21:54	WG1467660
Chloroform	U		0.00113	0.00274	1	04/28/2020 21:54	WG1467660
Chloromethane	U	<u>JO</u>	0.00477	0.0137	1	04/28/2020 21:54	WG1467660
2-Chlorotoluene	U		0.000949	0.00274	1	04/28/2020 21:54	WG1467660
4-Chlorotoluene	U		0.000494	0.00549	1	04/28/2020 21:54	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00428	0.0274	1	04/28/2020 21:54	WG1467660
1,2-Dibromoethane	U		0.000711	0.00274	1	04/28/2020 21:54	WG1467660
Dibromomethane	U		0.000823	0.00549	1	04/28/2020 21:54	WG1467660
1,2-Dichlorobenzene	U		0.000467	0.00549	1	04/28/2020 21:54	WG1467660
1,3-Dichlorobenzene	U		0.000659	0.00549	1	04/28/2020 21:54	WG1467660
1,4-Dichlorobenzene	U		0.000768	0.00549	1	04/28/2020 21:54	WG1467660
Dichlorodifluoromethane	U		0.00177	0.00274	1	04/28/2020 21:54	WG1467660
1,1-Dichloroethane	U		0.000539	0.00274	1	04/28/2020 21:54	WG1467660
1,2-Dichloroethane	U		0.000712	0.00274	1	04/28/2020 21:54	WG1467660
1,1-Dichloroethene	U		0.000665	0.00274	1	04/28/2020 21:54	WG1467660
cis-1,2-Dichloroethene	U		0.000806	0.00274	1	04/28/2020 21:54	WG1467660
trans-1,2-Dichloroethene	U		0.00114	0.00549	1	04/28/2020 21:54	WG1467660
1,2-Dichloropropane	U	<u>J4</u>	0.00156	0.00549	1	04/28/2020 21:54	WG1467660
1,1-Dichloropropene	U		0.000888	0.00274	1	04/28/2020 21:54	WG1467660
1,3-Dichloropropane	U		0.000550	0.00549	1	04/28/2020 21:54	WG1467660
cis-1,3-Dichloropropene	U		0.000831	0.00274	1	04/28/2020 21:54	WG1467660
trans-1,3-Dichloropropene	U		0.00125	0.00549	1	04/28/2020 21:54	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00204	0.00549	1	04/28/2020 21:54	WG1467660
2,2-Dichloropropane	U		0.00151	0.00274	1	04/28/2020 21:54	WG1467660
Di-isopropyl ether	U		0.000450	0.00110	1	04/28/2020 21:54	WG1467660
Ethylbenzene	U		0.000809	0.00274	1	04/28/2020 21:54	WG1467660
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.00659	0.0274	1	04/28/2020 21:54	WG1467660
2-Hexanone	U	<u>J4</u>	0.00369	0.0274	1	04/28/2020 21:54	WG1467660
n-Hexane	U		0.00248	0.00549	1	04/28/2020 21:54	WG1467660
Iodomethane	U		0.00255	0.0137	1	04/28/2020 21:54	WG1467660
Isopropylbenzene	U		0.000467	0.00274	1	04/28/2020 21:54	WG1467660
p-Isopropyltoluene	U		0.00280	0.00549	1	04/28/2020 21:54	WG1467660
2-Butanone (MEK)	U		0.0697	0.110	1	04/28/2020 21:54	WG1467660
Methylene Chloride	U		0.00729	0.0274	1	04/28/2020 21:54	WG1467660
4-Methyl-2-pentanone (MIBK)	U	<u>J4</u>	0.00250	0.0274	1	04/28/2020 21:54	WG1467660

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



Collected date/time: 04/20/20 12:40

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000384	0.00110	1	04/28/2020 21:54	WG1467660
Naphthalene	U	<u>J0</u>	0.00536	0.0137	1	04/28/2020 21:54	WG1467660
n-Propylbenzene	U		0.00104	0.00549	1	04/28/2020 21:54	WG1467660
Styrene	U	<u>J4</u>	0.000251	0.0137	1	04/28/2020 21:54	WG1467660
1,1,1,2-Tetrachloroethane	U		0.00104	0.00274	1	04/28/2020 21:54	WG1467660
1,1,2,2-Tetrachloroethane	U		0.000763	0.00274	1	04/28/2020 21:54	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.000828	0.00274	1	04/28/2020 21:54	WG1467660
Tetrachloroethene	U		0.000984	0.00274	1	04/28/2020 21:54	WG1467660
Toluene	0.00272	<u>J</u>	0.00143	0.00549	1	04/28/2020 21:54	WG1467660
1,2,3-Trichlorobenzene	U	<u>J0</u>	0.00805	0.0137	1	04/28/2020 21:54	WG1467660
1,2,4-Trichlorobenzene	U		0.00483	0.0137	1	04/28/2020 21:54	WG1467660
1,1,1-Trichloroethane	U		0.00101	0.00274	1	04/28/2020 21:54	WG1467660
1,1,2-Trichloroethane	U		0.000655	0.00274	1	04/28/2020 21:54	WG1467660
Trichloroethene	U		0.000641	0.00110	1	04/28/2020 21:54	WG1467660
Trichlorofluoromethane	U		0.000908	0.00274	1	04/28/2020 21:54	WG1467660
1,2,3-Trichloropropane	U		0.00178	0.0137	1	04/28/2020 21:54	WG1467660
1,2,4-Trimethylbenzene	U		0.00173	0.00549	1	04/28/2020 21:54	WG1467660
1,2,3-Trimethylbenzene	U		0.00173	0.00549	1	04/28/2020 21:54	WG1467660
1,3,5-Trimethylbenzene	U		0.00220	0.00549	1	04/28/2020 21:54	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00279	0.0137	1	04/28/2020 21:54	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00127	0.00274	1	04/28/2020 21:54	WG1467660
Xylenes, Total	0.00382	<u>J</u>	0.000966	0.00713	1	04/28/2020 21:54	WG1467660
(S) Toluene-d8	111			75.0-131		04/28/2020 21:54	WG1467660
(S) 4-Bromofluorobenzene	103			67.0-138		04/28/2020 21:54	WG1467660
(S) 1,2-Dichloroethane-d4	91.1			70.0-130		04/28/2020 21:54	WG1467660

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.9		1	05/04/2020 15:42	WG1469317

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0397	0.0544	1	04/28/2020 22:13	WG1467660
Acrylonitrile	U		0.00393	0.0136	1	04/28/2020 22:13	WG1467660
Benzene	U		0.000508	0.00109	1	04/28/2020 22:13	WG1467660
Bromobenzene	U		0.000979	0.0136	1	04/28/2020 22:13	WG1467660
Bromodichloromethane	U		0.000789	0.00272	1	04/28/2020 22:13	WG1467660
Bromochloromethane	U		0.000614	0.00544	1	04/28/2020 22:13	WG1467660
Bromoform	U		0.00127	0.0272	1	04/28/2020 22:13	WG1467660
Bromomethane	U		0.00214	0.0136	1	04/28/2020 22:13	WG1467660
n-Butylbenzene	U		0.00571	0.0136	1	04/28/2020 22:13	WG1467660
sec-Butylbenzene	U		0.00313	0.0136	1	04/28/2020 22:13	WG1467660
tert-Butylbenzene	U		0.00212	0.00544	1	04/28/2020 22:13	WG1467660
Carbon disulfide	0.00466	<u>J</u>	0.000762	0.0136	1	04/28/2020 22:13	WG1467660
Carbon tetrachloride	U		0.000977	0.00544	1	04/28/2020 22:13	WG1467660
Chlorobenzene	U		0.000228	0.00272	1	04/28/2020 22:13	WG1467660
Chlorodibromomethane	U		0.000666	0.00272	1	04/28/2020 22:13	WG1467660
Chloroethane	U		0.00185	0.00544	1	04/28/2020 22:13	WG1467660
Chloroform	U		0.00112	0.00272	1	04/28/2020 22:13	WG1467660
Chloromethane	U	<u>JO</u>	0.00473	0.0136	1	04/28/2020 22:13	WG1467660
2-Chlorotoluene	U		0.000941	0.00272	1	04/28/2020 22:13	WG1467660
4-Chlorotoluene	U		0.000490	0.00544	1	04/28/2020 22:13	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00424	0.0272	1	04/28/2020 22:13	WG1467660
1,2-Dibromoethane	U		0.000705	0.00272	1	04/28/2020 22:13	WG1467660
Dibromomethane	U		0.000816	0.00544	1	04/28/2020 22:13	WG1467660
1,2-Dichlorobenzene	U		0.000462	0.00544	1	04/28/2020 22:13	WG1467660
1,3-Dichlorobenzene	U		0.000653	0.00544	1	04/28/2020 22:13	WG1467660
1,4-Dichlorobenzene	U		0.000762	0.00544	1	04/28/2020 22:13	WG1467660
Dichlorodifluoromethane	U		0.00175	0.00272	1	04/28/2020 22:13	WG1467660
1,1-Dichloroethane	U		0.000534	0.00272	1	04/28/2020 22:13	WG1467660
1,2-Dichloroethane	U		0.000706	0.00272	1	04/28/2020 22:13	WG1467660
1,1-Dichloroethene	U		0.000659	0.00272	1	04/28/2020 22:13	WG1467660
cis-1,2-Dichloroethene	U		0.000799	0.00272	1	04/28/2020 22:13	WG1467660
trans-1,2-Dichloroethene	U		0.00113	0.00544	1	04/28/2020 22:13	WG1467660
1,2-Dichloropropane	U	<u>J4</u>	0.00155	0.00544	1	04/28/2020 22:13	WG1467660
1,1-Dichloropropene	U		0.000880	0.00272	1	04/28/2020 22:13	WG1467660
1,3-Dichloropropane	U		0.000545	0.00544	1	04/28/2020 22:13	WG1467660
cis-1,3-Dichloropropene	U		0.000824	0.00272	1	04/28/2020 22:13	WG1467660
trans-1,3-Dichloropropene	U		0.00124	0.00544	1	04/28/2020 22:13	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00202	0.00544	1	04/28/2020 22:13	WG1467660
2,2-Dichloropropane	U		0.00150	0.00272	1	04/28/2020 22:13	WG1467660
Di-isopropyl ether	U		0.000446	0.00109	1	04/28/2020 22:13	WG1467660
Ethylbenzene	U		0.000802	0.00272	1	04/28/2020 22:13	WG1467660
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.00653	0.0272	1	04/28/2020 22:13	WG1467660
2-Hexanone	U	<u>J4</u>	0.00366	0.0272	1	04/28/2020 22:13	WG1467660
n-Hexane	U		0.00246	0.00544	1	04/28/2020 22:13	WG1467660
Iodomethane	U		0.00252	0.0136	1	04/28/2020 22:13	WG1467660
Isopropylbenzene	U		0.000462	0.00272	1	04/28/2020 22:13	WG1467660
p-Isopropyltoluene	U		0.00277	0.00544	1	04/28/2020 22:13	WG1467660
2-Butanone (MEK)	U		0.0691	0.109	1	04/28/2020 22:13	WG1467660
Methylene Chloride	U		0.00722	0.0272	1	04/28/2020 22:13	WG1467660
4-Methyl-2-pentanone (MIBK)	U	<u>J4</u>	0.00248	0.0272	1	04/28/2020 22:13	WG1467660

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



Collected date/time: 04/20/20 12:42

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000381	0.00109	1	04/28/2020 22:13	WG1467660
Naphthalene	U	<u>JO</u>	0.00531	0.0136	1	04/28/2020 22:13	WG1467660
n-Propylbenzene	U		0.00103	0.00544	1	04/28/2020 22:13	WG1467660
Styrene	U	<u>J4</u>	0.000249	0.0136	1	04/28/2020 22:13	WG1467660
1,1,1,2-Tetrachloroethane	U		0.00103	0.00272	1	04/28/2020 22:13	WG1467660
1,1,2,2-Tetrachloroethane	U		0.000756	0.00272	1	04/28/2020 22:13	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.000820	0.00272	1	04/28/2020 22:13	WG1467660
Tetrachloroethene	U		0.000975	0.00272	1	04/28/2020 22:13	WG1467660
Toluene	0.00143	<u>J</u>	0.00141	0.00544	1	04/28/2020 22:13	WG1467660
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.00798	0.0136	1	04/28/2020 22:13	WG1467660
1,2,4-Trichlorobenzene	U		0.00479	0.0136	1	04/28/2020 22:13	WG1467660
1,1,1-Trichloroethane	U		0.00100	0.00272	1	04/28/2020 22:13	WG1467660
1,1,2-Trichloroethane	U		0.000650	0.00272	1	04/28/2020 22:13	WG1467660
Trichloroethene	U		0.000635	0.00109	1	04/28/2020 22:13	WG1467660
Trichlorofluoromethane	U		0.000900	0.00272	1	04/28/2020 22:13	WG1467660
1,2,3-Trichloropropane	U		0.00176	0.0136	1	04/28/2020 22:13	WG1467660
1,2,4-Trimethylbenzene	U		0.00172	0.00544	1	04/28/2020 22:13	WG1467660
1,2,3-Trimethylbenzene	U		0.00172	0.00544	1	04/28/2020 22:13	WG1467660
1,3,5-Trimethylbenzene	U		0.00218	0.00544	1	04/28/2020 22:13	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00276	0.0136	1	04/28/2020 22:13	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00126	0.00272	1	04/28/2020 22:13	WG1467660
Xylenes, Total	0.00374	<u>J</u>	0.000957	0.00707	1	04/28/2020 22:13	WG1467660
<i>(S) Toluene-d8</i>	113			75.0-131		04/28/2020 22:13	WG1467660
<i>(S) 4-Bromofluorobenzene</i>	103			67.0-138		04/28/2020 22:13	WG1467660
<i>(S) 1,2-Dichloroethane-d4</i>	91.1			70.0-130		04/28/2020 22:13	WG1467660

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.0		1	05/04/2020 15:42	WG1469317

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0401	0.0549	1	04/28/2020 22:32	WG1467660
Acrylonitrile	U		0.00396	0.0137	1	04/28/2020 22:32	WG1467660
Benzene	U		0.000513	0.00110	1	04/28/2020 22:32	WG1467660
Bromobenzene	U		0.000989	0.0137	1	04/28/2020 22:32	WG1467660
Bromodichloromethane	U		0.000796	0.00275	1	04/28/2020 22:32	WG1467660
Bromochloromethane	U		0.000619	0.00549	1	04/28/2020 22:32	WG1467660
Bromoform	U		0.00129	0.0275	1	04/28/2020 22:32	WG1467660
Bromomethane	U		0.00216	0.0137	1	04/28/2020 22:32	WG1467660
n-Butylbenzene	U		0.00577	0.0137	1	04/28/2020 22:32	WG1467660
sec-Butylbenzene	U		0.00316	0.0137	1	04/28/2020 22:32	WG1467660
tert-Butylbenzene	U		0.00214	0.00549	1	04/28/2020 22:32	WG1467660
Carbon disulfide	U		0.000769	0.0137	1	04/28/2020 22:32	WG1467660
Carbon tetrachloride	U		0.000986	0.00549	1	04/28/2020 22:32	WG1467660
Chlorobenzene	U		0.000231	0.00275	1	04/28/2020 22:32	WG1467660
Chlorodibromomethane	U		0.000672	0.00275	1	04/28/2020 22:32	WG1467660
Chloroethane	U		0.00187	0.00549	1	04/28/2020 22:32	WG1467660
Chloroform	U		0.00113	0.00275	1	04/28/2020 22:32	WG1467660
Chloromethane	U	J0	0.00478	0.0137	1	04/28/2020 22:32	WG1467660
2-Chlorotoluene	U		0.000950	0.00275	1	04/28/2020 22:32	WG1467660
4-Chlorotoluene	U		0.000494	0.00549	1	04/28/2020 22:32	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00428	0.0275	1	04/28/2020 22:32	WG1467660
1,2-Dibromoethane	U		0.000712	0.00275	1	04/28/2020 22:32	WG1467660
Dibromomethane	U		0.000824	0.00549	1	04/28/2020 22:32	WG1467660
1,2-Dichlorobenzene	U		0.000467	0.00549	1	04/28/2020 22:32	WG1467660
1,3-Dichlorobenzene	U		0.000659	0.00549	1	04/28/2020 22:32	WG1467660
1,4-Dichlorobenzene	U		0.000769	0.00549	1	04/28/2020 22:32	WG1467660
Dichlorodifluoromethane	U		0.00177	0.00275	1	04/28/2020 22:32	WG1467660
1,1-Dichloroethane	U		0.000539	0.00275	1	04/28/2020 22:32	WG1467660
1,2-Dichloroethane	U		0.000713	0.00275	1	04/28/2020 22:32	WG1467660
1,1-Dichloroethene	U		0.000666	0.00275	1	04/28/2020 22:32	WG1467660
cis-1,2-Dichloroethene	U		0.000806	0.00275	1	04/28/2020 22:32	WG1467660
trans-1,2-Dichloroethene	U		0.00114	0.00549	1	04/28/2020 22:32	WG1467660
1,2-Dichloropropane	U	J4	0.00156	0.00549	1	04/28/2020 22:32	WG1467660
1,1-Dichloropropene	U		0.000889	0.00275	1	04/28/2020 22:32	WG1467660
1,3-Dichloropropane	U		0.000550	0.00549	1	04/28/2020 22:32	WG1467660
cis-1,3-Dichloropropene	U		0.000831	0.00275	1	04/28/2020 22:32	WG1467660
trans-1,3-Dichloropropene	U		0.00125	0.00549	1	04/28/2020 22:32	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00204	0.00549	1	04/28/2020 22:32	WG1467660
2,2-Dichloropropane	U		0.00152	0.00275	1	04/28/2020 22:32	WG1467660
Di-isopropyl ether	U		0.000450	0.00110	1	04/28/2020 22:32	WG1467660
Ethylbenzene	U		0.000809	0.00275	1	04/28/2020 22:32	WG1467660
Hexachloro-1,3-butadiene	U	J0	0.00659	0.0275	1	04/28/2020 22:32	WG1467660
2-Hexanone	U	J4	0.00369	0.0275	1	04/28/2020 22:32	WG1467660
n-Hexane	U		0.00248	0.00549	1	04/28/2020 22:32	WG1467660
Iodomethane	U		0.00255	0.0137	1	04/28/2020 22:32	WG1467660
Isopropylbenzene	U		0.000467	0.00275	1	04/28/2020 22:32	WG1467660
p-Isopropyltoluene	U		0.00280	0.00549	1	04/28/2020 22:32	WG1467660
2-Butanone (MEK)	U		0.0697	0.110	1	04/28/2020 22:32	WG1467660
Methylene Chloride	U		0.00729	0.0275	1	04/28/2020 22:32	WG1467660
4-Methyl-2-pentanone (MIBK)	U	J4	0.00250	0.0275	1	04/28/2020 22:32	WG1467660

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



Collected date/time: 04/20/20 12:45

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000384	0.00110	1	04/28/2020 22:32	WG1467660
Naphthalene	U	<u>J0</u>	0.00536	0.0137	1	04/28/2020 22:32	WG1467660
n-Propylbenzene	U		0.00104	0.00549	1	04/28/2020 22:32	WG1467660
Styrene	U	<u>J4</u>	0.000252	0.0137	1	04/28/2020 22:32	WG1467660
1,1,1,2-Tetrachloroethane	U		0.00104	0.00275	1	04/28/2020 22:32	WG1467660
1,1,2,2-Tetrachloroethane	U		0.000763	0.00275	1	04/28/2020 22:32	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.000828	0.00275	1	04/28/2020 22:32	WG1467660
Tetrachloroethene	U		0.000984	0.00275	1	04/28/2020 22:32	WG1467660
Toluene	U		0.00143	0.00549	1	04/28/2020 22:32	WG1467660
1,2,3-Trichlorobenzene	U	<u>J0</u>	0.00805	0.0137	1	04/28/2020 22:32	WG1467660
1,2,4-Trichlorobenzene	U		0.00483	0.0137	1	04/28/2020 22:32	WG1467660
1,1,1-Trichloroethane	U		0.00101	0.00275	1	04/28/2020 22:32	WG1467660
1,1,2-Trichloroethane	U		0.000656	0.00275	1	04/28/2020 22:32	WG1467660
Trichloroethene	U		0.000641	0.00110	1	04/28/2020 22:32	WG1467660
Trichlorofluoromethane	U		0.000908	0.00275	1	04/28/2020 22:32	WG1467660
1,2,3-Trichloropropane	U		0.00178	0.0137	1	04/28/2020 22:32	WG1467660
1,2,4-Trimethylbenzene	U		0.00174	0.00549	1	04/28/2020 22:32	WG1467660
1,2,3-Trimethylbenzene	U		0.00174	0.00549	1	04/28/2020 22:32	WG1467660
1,3,5-Trimethylbenzene	U		0.00220	0.00549	1	04/28/2020 22:32	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00279	0.0137	1	04/28/2020 22:32	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00127	0.00275	1	04/28/2020 22:32	WG1467660
Xylenes, Total	U		0.000967	0.00714	1	04/28/2020 22:32	WG1467660
(S) Toluene-d8	111			75.0-131		04/28/2020 22:32	WG1467660
(S) 4-Bromofluorobenzene	103			67.0-138		04/28/2020 22:32	WG1467660
(S) 1,2-Dichloroethane-d4	92.2			70.0-130		04/28/2020 22:32	WG1467660

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.6		1	05/04/2020 15:42	WG1469317

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0407	0.0558	1	04/28/2020 22:51	WG1467660
Acrylonitrile	U		0.00403	0.0139	1	04/28/2020 22:51	WG1467660
Benzene	U		0.000521	0.00112	1	04/28/2020 22:51	WG1467660
Bromobenzene	U		0.00100	0.0139	1	04/28/2020 22:51	WG1467660
Bromodichloromethane	U		0.000809	0.00279	1	04/28/2020 22:51	WG1467660
Bromochloromethane	U		0.000629	0.00558	1	04/28/2020 22:51	WG1467660
Bromoform	U		0.00131	0.0279	1	04/28/2020 22:51	WG1467660
Bromomethane	U		0.00220	0.0139	1	04/28/2020 22:51	WG1467660
n-Butylbenzene	U		0.00586	0.0139	1	04/28/2020 22:51	WG1467660
sec-Butylbenzene	U		0.00321	0.0139	1	04/28/2020 22:51	WG1467660
tert-Butylbenzene	U		0.00218	0.00558	1	04/28/2020 22:51	WG1467660
Carbon disulfide	U		0.000781	0.0139	1	04/28/2020 22:51	WG1467660
Carbon tetrachloride	U		0.00100	0.00558	1	04/28/2020 22:51	WG1467660
Chlorobenzene	U		0.000234	0.00279	1	04/28/2020 22:51	WG1467660
Chlorodibromomethane	U		0.000683	0.00279	1	04/28/2020 22:51	WG1467660
Chloroethane	U		0.00190	0.00558	1	04/28/2020 22:51	WG1467660
Chloroform	U		0.00115	0.00279	1	04/28/2020 22:51	WG1467660
Chloromethane	U	J0	0.00485	0.0139	1	04/28/2020 22:51	WG1467660
2-Chlorotoluene	U		0.000965	0.00279	1	04/28/2020 22:51	WG1467660
4-Chlorotoluene	U		0.000502	0.00558	1	04/28/2020 22:51	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00435	0.0279	1	04/28/2020 22:51	WG1467660
1,2-Dibromoethane	U		0.000723	0.00279	1	04/28/2020 22:51	WG1467660
Dibromomethane	U		0.000837	0.00558	1	04/28/2020 22:51	WG1467660
1,2-Dichlorobenzene	U		0.000474	0.00558	1	04/28/2020 22:51	WG1467660
1,3-Dichlorobenzene	U		0.000669	0.00558	1	04/28/2020 22:51	WG1467660
1,4-Dichlorobenzene	U		0.000781	0.00558	1	04/28/2020 22:51	WG1467660
Dichlorodifluoromethane	U		0.00180	0.00279	1	04/28/2020 22:51	WG1467660
1,1-Dichloroethane	U		0.000548	0.00279	1	04/28/2020 22:51	WG1467660
1,2-Dichloroethane	U		0.000724	0.00279	1	04/28/2020 22:51	WG1467660
1,1-Dichloroethene	U		0.000676	0.00279	1	04/28/2020 22:51	WG1467660
cis-1,2-Dichloroethene	U		0.000819	0.00279	1	04/28/2020 22:51	WG1467660
trans-1,2-Dichloroethene	U		0.00116	0.00558	1	04/28/2020 22:51	WG1467660
1,2-Dichloropropane	U	J4	0.00158	0.00558	1	04/28/2020 22:51	WG1467660
1,1-Dichloropropene	U		0.000903	0.00279	1	04/28/2020 22:51	WG1467660
1,3-Dichloropropane	U		0.000559	0.00558	1	04/28/2020 22:51	WG1467660
cis-1,3-Dichloropropene	U		0.000845	0.00279	1	04/28/2020 22:51	WG1467660
trans-1,3-Dichloropropene	U		0.00127	0.00558	1	04/28/2020 22:51	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00208	0.00558	1	04/28/2020 22:51	WG1467660
2,2-Dichloropropane	U		0.00154	0.00279	1	04/28/2020 22:51	WG1467660
Di-isopropyl ether	U		0.000457	0.00112	1	04/28/2020 22:51	WG1467660
Ethylbenzene	U		0.000822	0.00279	1	04/28/2020 22:51	WG1467660
Hexachloro-1,3-butadiene	U	J0	0.00669	0.0279	1	04/28/2020 22:51	WG1467660
2-Hexanone	U	J4	0.00375	0.0279	1	04/28/2020 22:51	WG1467660
n-Hexane	U		0.00252	0.00558	1	04/28/2020 22:51	WG1467660
Iodomethane	U		0.00259	0.0139	1	04/28/2020 22:51	WG1467660
Isopropylbenzene	U		0.000474	0.00279	1	04/28/2020 22:51	WG1467660
p-Isopropyltoluene	U		0.00284	0.00558	1	04/28/2020 22:51	WG1467660
2-Butanone (MEK)	U		0.0708	0.112	1	04/28/2020 22:51	WG1467660
Methylene Chloride	U		0.00741	0.0279	1	04/28/2020 22:51	WG1467660
4-Methyl-2-pentanone (MIBK)	U	J4	0.00254	0.0279	1	04/28/2020 22:51	WG1467660

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



Collected date/time: 04/22/20 09:10

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000390	0.00112	1	04/28/2020 22:51	WG1467660
Naphthalene	U	<u>J0</u>	0.00544	0.0139	1	04/28/2020 22:51	WG1467660
n-Propylbenzene	U		0.00106	0.00558	1	04/28/2020 22:51	WG1467660
Styrene	U	<u>J4</u>	0.000255	0.0139	1	04/28/2020 22:51	WG1467660
1,1,1,2-Tetrachloroethane	U		0.00106	0.00279	1	04/28/2020 22:51	WG1467660
1,1,2,2-Tetrachloroethane	U		0.000775	0.00279	1	04/28/2020 22:51	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.000841	0.00279	1	04/28/2020 22:51	WG1467660
Tetrachloroethene	U		0.00100	0.00279	1	04/28/2020 22:51	WG1467660
Toluene	U		0.00145	0.00558	1	04/28/2020 22:51	WG1467660
1,2,3-Trichlorobenzene	U	<u>J0</u>	0.00818	0.0139	1	04/28/2020 22:51	WG1467660
1,2,4-Trichlorobenzene	U		0.00491	0.0139	1	04/28/2020 22:51	WG1467660
1,1,1-Trichloroethane	U		0.00103	0.00279	1	04/28/2020 22:51	WG1467660
1,1,2-Trichloroethane	U		0.000666	0.00279	1	04/28/2020 22:51	WG1467660
Trichloroethene	U		0.000652	0.00112	1	04/28/2020 22:51	WG1467660
Trichlorofluoromethane	U		0.000923	0.00279	1	04/28/2020 22:51	WG1467660
1,2,3-Trichloropropane	U		0.00181	0.0139	1	04/28/2020 22:51	WG1467660
1,2,4-Trimethylbenzene	U		0.00176	0.00558	1	04/28/2020 22:51	WG1467660
1,2,3-Trimethylbenzene	U		0.00176	0.00558	1	04/28/2020 22:51	WG1467660
1,3,5-Trimethylbenzene	U		0.00223	0.00558	1	04/28/2020 22:51	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00283	0.0139	1	04/28/2020 22:51	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00129	0.00279	1	04/28/2020 22:51	WG1467660
Xylenes, Total	U		0.000982	0.00725	1	04/28/2020 22:51	WG1467660
(S) Toluene-d8	112			75.0-131		04/28/2020 22:51	WG1467660
(S) 4-Bromofluorobenzene	104			67.0-138		04/28/2020 22:51	WG1467660
(S) 1,2-Dichloroethane-d4	92.7			70.0-130		04/28/2020 22:51	WG1467660

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.0		1	05/04/2020 15:42	WG1469317

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0435	0.0595	1	04/28/2020 23:10	WG1467660
Acrylonitrile	U		0.00430	0.0149	1	04/28/2020 23:10	WG1467660
Benzene	U		0.000556	0.00119	1	04/28/2020 23:10	WG1467660
Bromobenzene	U		0.00107	0.0149	1	04/28/2020 23:10	WG1467660
Bromodichloromethane	U		0.000863	0.00298	1	04/28/2020 23:10	WG1467660
Bromochloromethane	U		0.000672	0.00595	1	04/28/2020 23:10	WG1467660
Bromoform	U		0.00139	0.0298	1	04/28/2020 23:10	WG1467660
Bromomethane	U		0.00235	0.0149	1	04/28/2020 23:10	WG1467660
n-Butylbenzene	U		0.00625	0.0149	1	04/28/2020 23:10	WG1467660
sec-Butylbenzene	U		0.00343	0.0149	1	04/28/2020 23:10	WG1467660
tert-Butylbenzene	U		0.00232	0.00595	1	04/28/2020 23:10	WG1467660
Carbon disulfide	0.00658	<u>J</u>	0.000833	0.0149	1	04/28/2020 23:10	WG1467660
Carbon tetrachloride	U		0.00107	0.00595	1	04/28/2020 23:10	WG1467660
Chlorobenzene	U		0.000250	0.00298	1	04/28/2020 23:10	WG1467660
Chlorodibromomethane	U		0.000729	0.00298	1	04/28/2020 23:10	WG1467660
Chloroethane	U		0.00202	0.00595	1	04/28/2020 23:10	WG1467660
Chloroform	U		0.00123	0.00298	1	04/28/2020 23:10	WG1467660
Chloromethane	U	<u>JO</u>	0.00518	0.0149	1	04/28/2020 23:10	WG1467660
2-Chlorotoluene	U		0.00103	0.00298	1	04/28/2020 23:10	WG1467660
4-Chlorotoluene	U		0.000536	0.00595	1	04/28/2020 23:10	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00464	0.0298	1	04/28/2020 23:10	WG1467660
1,2-Dibromoethane	U		0.000772	0.00298	1	04/28/2020 23:10	WG1467660
Dibromomethane	U		0.000893	0.00595	1	04/28/2020 23:10	WG1467660
1,2-Dichlorobenzene	U		0.000506	0.00595	1	04/28/2020 23:10	WG1467660
1,3-Dichlorobenzene	U		0.000714	0.00595	1	04/28/2020 23:10	WG1467660
1,4-Dichlorobenzene	U		0.000833	0.00595	1	04/28/2020 23:10	WG1467660
Dichlorodifluoromethane	U		0.00192	0.00298	1	04/28/2020 23:10	WG1467660
1,1-Dichloroethane	U		0.000585	0.00298	1	04/28/2020 23:10	WG1467660
1,2-Dichloroethane	U		0.000773	0.00298	1	04/28/2020 23:10	WG1467660
1,1-Dichloroethene	U		0.000722	0.00298	1	04/28/2020 23:10	WG1467660
cis-1,2-Dichloroethene	U		0.000874	0.00298	1	04/28/2020 23:10	WG1467660
trans-1,2-Dichloroethene	U		0.00124	0.00595	1	04/28/2020 23:10	WG1467660
1,2-Dichloropropane	U	<u>J4</u>	0.00169	0.00595	1	04/28/2020 23:10	WG1467660
1,1-Dichloropropene	U		0.000963	0.00298	1	04/28/2020 23:10	WG1467660
1,3-Dichloropropane	U		0.000597	0.00595	1	04/28/2020 23:10	WG1467660
cis-1,3-Dichloropropene	U		0.000901	0.00298	1	04/28/2020 23:10	WG1467660
trans-1,3-Dichloropropene	U		0.00136	0.00595	1	04/28/2020 23:10	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00221	0.00595	1	04/28/2020 23:10	WG1467660
2,2-Dichloropropane	U		0.00164	0.00298	1	04/28/2020 23:10	WG1467660
Di-isopropyl ether	U		0.000488	0.00119	1	04/28/2020 23:10	WG1467660
Ethylbenzene	U		0.000878	0.00298	1	04/28/2020 23:10	WG1467660
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.00714	0.0298	1	04/28/2020 23:10	WG1467660
2-Hexanone	U	<u>J4</u>	0.00400	0.0298	1	04/28/2020 23:10	WG1467660
n-Hexane	U		0.00269	0.00595	1	04/28/2020 23:10	WG1467660
Iodomethane	U		0.00276	0.0149	1	04/28/2020 23:10	WG1467660
Isopropylbenzene	U		0.000506	0.00298	1	04/28/2020 23:10	WG1467660
p-Isopropyltoluene	0.461		0.00304	0.00595	1	04/28/2020 23:10	WG1467660
2-Butanone (MEK)	U		0.0756	0.119	1	04/28/2020 23:10	WG1467660
Methylene Chloride	U		0.00791	0.0298	1	04/28/2020 23:10	WG1467660
4-Methyl-2-pentanone (MIBK)	U	<u>J4</u>	0.00271	0.0298	1	04/28/2020 23:10	WG1467660

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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000417	0.00119	1	04/28/2020 23:10	WG1467660
Naphthalene	U	<u>J0</u>	0.00581	0.0149	1	04/28/2020 23:10	WG1467660
n-Propylbenzene	U		0.00113	0.00595	1	04/28/2020 23:10	WG1467660
Styrene	U	<u>J4</u>	0.000273	0.0149	1	04/28/2020 23:10	WG1467660
1,1,1,2-Tetrachloroethane	U		0.00113	0.00298	1	04/28/2020 23:10	WG1467660
1,1,2,2-Tetrachloroethane	U		0.000828	0.00298	1	04/28/2020 23:10	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.000898	0.00298	1	04/28/2020 23:10	WG1467660
Tetrachloroethene	U		0.00107	0.00298	1	04/28/2020 23:10	WG1467660
Toluene	0.00195	<u>J</u>	0.00155	0.00595	1	04/28/2020 23:10	WG1467660
1,2,3-Trichlorobenzene	U	<u>J0</u>	0.00873	0.0149	1	04/28/2020 23:10	WG1467660
1,2,4-Trichlorobenzene	U		0.00524	0.0149	1	04/28/2020 23:10	WG1467660
1,1,1-Trichloroethane	U		0.00110	0.00298	1	04/28/2020 23:10	WG1467660
1,1,2-Trichloroethane	U		0.000711	0.00298	1	04/28/2020 23:10	WG1467660
Trichloroethene	U		0.000695	0.00119	1	04/28/2020 23:10	WG1467660
Trichlorofluoromethane	U		0.000985	0.00298	1	04/28/2020 23:10	WG1467660
1,2,3-Trichloropropane	U		0.00193	0.0149	1	04/28/2020 23:10	WG1467660
1,2,4-Trimethylbenzene	U		0.00188	0.00595	1	04/28/2020 23:10	WG1467660
1,2,3-Trimethylbenzene	U		0.00188	0.00595	1	04/28/2020 23:10	WG1467660
1,3,5-Trimethylbenzene	U		0.00238	0.00595	1	04/28/2020 23:10	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00302	0.0149	1	04/28/2020 23:10	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00138	0.00298	1	04/28/2020 23:10	WG1467660
Xylenes, Total	U		0.00105	0.00774	1	04/28/2020 23:10	WG1467660
(S) Toluene-d8	111			75.0-131		04/28/2020 23:10	WG1467660
(S) 4-Bromofluorobenzene	105			67.0-138		04/28/2020 23:10	WG1467660
(S) 1,2-Dichloroethane-d4	94.3			70.0-130		04/28/2020 23:10	WG1467660

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.0		1	05/04/2020 15:42	WG1469317

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0468	0.0641	1	04/28/2020 23:29	WG1467660
Acrylonitrile	U		0.00463	0.0160	1	04/28/2020 23:29	WG1467660
Benzene	U		0.000599	0.00128	1	04/28/2020 23:29	WG1467660
Bromobenzene	U		0.00115	0.0160	1	04/28/2020 23:29	WG1467660
Bromodichloromethane	U		0.000929	0.00320	1	04/28/2020 23:29	WG1467660
Bromochloromethane	U		0.000723	0.00641	1	04/28/2020 23:29	WG1467660
Bromoform	U		0.00150	0.0320	1	04/28/2020 23:29	WG1467660
Bromomethane	U		0.00253	0.0160	1	04/28/2020 23:29	WG1467660
n-Butylbenzene	U		0.00673	0.0160	1	04/28/2020 23:29	WG1467660
sec-Butylbenzene	U		0.00369	0.0160	1	04/28/2020 23:29	WG1467660
tert-Butylbenzene	U		0.00250	0.00641	1	04/28/2020 23:29	WG1467660
Carbon disulfide	U		0.000897	0.0160	1	04/28/2020 23:29	WG1467660
Carbon tetrachloride	U		0.00115	0.00641	1	04/28/2020 23:29	WG1467660
Chlorobenzene	U		0.000269	0.00320	1	04/28/2020 23:29	WG1467660
Chlorodibromomethane	U		0.000784	0.00320	1	04/28/2020 23:29	WG1467660
Chloroethane	U		0.00218	0.00641	1	04/28/2020 23:29	WG1467660
Chloroform	U		0.00132	0.00320	1	04/28/2020 23:29	WG1467660
Chloromethane	U	J0	0.00558	0.0160	1	04/28/2020 23:29	WG1467660
2-Chlorotoluene	U		0.00111	0.00320	1	04/28/2020 23:29	WG1467660
4-Chlorotoluene	U		0.000577	0.00641	1	04/28/2020 23:29	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00500	0.0320	1	04/28/2020 23:29	WG1467660
1,2-Dibromoethane	U		0.000831	0.00320	1	04/28/2020 23:29	WG1467660
Dibromomethane	U		0.000961	0.00641	1	04/28/2020 23:29	WG1467660
1,2-Dichlorobenzene	U		0.000545	0.00641	1	04/28/2020 23:29	WG1467660
1,3-Dichlorobenzene	U		0.000769	0.00641	1	04/28/2020 23:29	WG1467660
1,4-Dichlorobenzene	U		0.000897	0.00641	1	04/28/2020 23:29	WG1467660
Dichlorodifluoromethane	U		0.00206	0.00320	1	04/28/2020 23:29	WG1467660
1,1-Dichloroethane	U		0.000629	0.00320	1	04/28/2020 23:29	WG1467660
1,2-Dichloroethane	U		0.000832	0.00320	1	04/28/2020 23:29	WG1467660
1,1-Dichloroethene	U		0.000777	0.00320	1	04/28/2020 23:29	WG1467660
cis-1,2-Dichloroethene	U		0.000941	0.00320	1	04/28/2020 23:29	WG1467660
trans-1,2-Dichloroethene	U		0.00133	0.00641	1	04/28/2020 23:29	WG1467660
1,2-Dichloropropane	U	J4	0.00182	0.00641	1	04/28/2020 23:29	WG1467660
1,1-Dichloropropene	U		0.00104	0.00320	1	04/28/2020 23:29	WG1467660
1,3-Dichloropropane	U		0.000642	0.00641	1	04/28/2020 23:29	WG1467660
cis-1,3-Dichloropropene	U		0.000970	0.00320	1	04/28/2020 23:29	WG1467660
trans-1,3-Dichloropropene	U		0.00146	0.00641	1	04/28/2020 23:29	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00238	0.00641	1	04/28/2020 23:29	WG1467660
2,2-Dichloropropane	U		0.00177	0.00320	1	04/28/2020 23:29	WG1467660
Di-isopropyl ether	U		0.000526	0.00128	1	04/28/2020 23:29	WG1467660
Ethylbenzene	U		0.000945	0.00320	1	04/28/2020 23:29	WG1467660
Hexachloro-1,3-butadiene	U	J0	0.00769	0.0320	1	04/28/2020 23:29	WG1467660
2-Hexanone	U	J4	0.00431	0.0320	1	04/28/2020 23:29	WG1467660
n-Hexane	U		0.00290	0.00641	1	04/28/2020 23:29	WG1467660
Iodomethane	U		0.00297	0.0160	1	04/28/2020 23:29	WG1467660
Isopropylbenzene	U		0.000545	0.00320	1	04/28/2020 23:29	WG1467660
p-Isopropyltoluene	0.00660		0.00327	0.00641	1	04/28/2020 23:29	WG1467660
2-Butanone (MEK)	U		0.0814	0.128	1	04/28/2020 23:29	WG1467660
Methylene Chloride	U		0.00851	0.0320	1	04/28/2020 23:29	WG1467660
4-Methyl-2-pentanone (MIBK)	U	J4	0.00292	0.0320	1	04/28/2020 23:29	WG1467660

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



Collected date/time: 04/22/20 09:40

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000449	0.00128	1	04/28/2020 23:29	WG1467660
Naphthalene	U	<u>J0</u>	0.00625	0.0160	1	04/28/2020 23:29	WG1467660
n-Propylbenzene	U		0.00122	0.00641	1	04/28/2020 23:29	WG1467660
Styrene	U	<u>J4</u>	0.000294	0.0160	1	04/28/2020 23:29	WG1467660
1,1,1,2-Tetrachloroethane	U		0.00122	0.00320	1	04/28/2020 23:29	WG1467660
1,1,2,2-Tetrachloroethane	U		0.000891	0.00320	1	04/28/2020 23:29	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.000966	0.00320	1	04/28/2020 23:29	WG1467660
Tetrachloroethene	U		0.00115	0.00320	1	04/28/2020 23:29	WG1467660
Toluene	U		0.00167	0.00641	1	04/28/2020 23:29	WG1467660
1,2,3-Trichlorobenzene	U	<u>J0</u>	0.00940	0.0160	1	04/28/2020 23:29	WG1467660
1,2,4-Trichlorobenzene	U		0.00564	0.0160	1	04/28/2020 23:29	WG1467660
1,1,1-Trichloroethane	U		0.00118	0.00320	1	04/28/2020 23:29	WG1467660
1,1,2-Trichloroethane	U		0.000765	0.00320	1	04/28/2020 23:29	WG1467660
Trichloroethene	U		0.000749	0.00128	1	04/28/2020 23:29	WG1467660
Trichlorofluoromethane	U		0.00106	0.00320	1	04/28/2020 23:29	WG1467660
1,2,3-Trichloropropane	U		0.00208	0.0160	1	04/28/2020 23:29	WG1467660
1,2,4-Trimethylbenzene	U		0.00203	0.00641	1	04/28/2020 23:29	WG1467660
1,2,3-Trimethylbenzene	U		0.00203	0.00641	1	04/28/2020 23:29	WG1467660
1,3,5-Trimethylbenzene	U		0.00256	0.00641	1	04/28/2020 23:29	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00326	0.0160	1	04/28/2020 23:29	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00149	0.00320	1	04/28/2020 23:29	WG1467660
Xylenes, Total	U		0.00113	0.00833	1	04/28/2020 23:29	WG1467660
(S) Toluene-d8	113			75.0-131		04/28/2020 23:29	WG1467660
(S) 4-Bromofluorobenzene	105			67.0-138		04/28/2020 23:29	WG1467660
(S) 1,2-Dichloroethane-d4	93.6			70.0-130		04/28/2020 23:29	WG1467660

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.7		1	05/04/2020 15:42	WG1469317

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0447	0.0612	1	04/28/2020 23:48	WG1467660
Acrylonitrile	U		0.00442	0.0153	1	04/28/2020 23:48	WG1467660
Benzene	U		0.000572	0.00122	1	04/28/2020 23:48	WG1467660
Bromobenzene	U		0.00110	0.0153	1	04/28/2020 23:48	WG1467660
Bromodichloromethane	U		0.000888	0.00306	1	04/28/2020 23:48	WG1467660
Bromochloromethane	U		0.000691	0.00612	1	04/28/2020 23:48	WG1467660
Bromoform	U		0.00143	0.0306	1	04/28/2020 23:48	WG1467660
Bromomethane	U		0.00241	0.0153	1	04/28/2020 23:48	WG1467660
n-Butylbenzene	U		0.00643	0.0153	1	04/28/2020 23:48	WG1467660
sec-Butylbenzene	U		0.00353	0.0153	1	04/28/2020 23:48	WG1467660
tert-Butylbenzene	U		0.00239	0.00612	1	04/28/2020 23:48	WG1467660
Carbon disulfide	U		0.000857	0.0153	1	04/28/2020 23:48	WG1467660
Carbon tetrachloride	U		0.00110	0.00612	1	04/28/2020 23:48	WG1467660
Chlorobenzene	U		0.000257	0.00306	1	04/28/2020 23:48	WG1467660
Chlorodibromomethane	U		0.000749	0.00306	1	04/28/2020 23:48	WG1467660
Chloroethane	U		0.00208	0.00612	1	04/28/2020 23:48	WG1467660
Chloroform	U		0.00126	0.00306	1	04/28/2020 23:48	WG1467660
Chloromethane	U	J0	0.00533	0.0153	1	04/28/2020 23:48	WG1467660
2-Chlorotoluene	U		0.00106	0.00306	1	04/28/2020 23:48	WG1467660
4-Chlorotoluene	U		0.000551	0.00612	1	04/28/2020 23:48	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00478	0.0306	1	04/28/2020 23:48	WG1467660
1,2-Dibromoethane	U		0.000794	0.00306	1	04/28/2020 23:48	WG1467660
Dibromomethane	U		0.000918	0.00612	1	04/28/2020 23:48	WG1467660
1,2-Dichlorobenzene	U		0.000520	0.00612	1	04/28/2020 23:48	WG1467660
1,3-Dichlorobenzene	U		0.000735	0.00612	1	04/28/2020 23:48	WG1467660
1,4-Dichlorobenzene	U		0.000857	0.00612	1	04/28/2020 23:48	WG1467660
Dichlorodifluoromethane	U		0.00197	0.00306	1	04/28/2020 23:48	WG1467660
1,1-Dichloroethane	U		0.000601	0.00306	1	04/28/2020 23:48	WG1467660
1,2-Dichloroethane	U		0.000795	0.00306	1	04/28/2020 23:48	WG1467660
1,1-Dichloroethene	U		0.000742	0.00306	1	04/28/2020 23:48	WG1467660
cis-1,2-Dichloroethene	U		0.000899	0.00306	1	04/28/2020 23:48	WG1467660
trans-1,2-Dichloroethene	U		0.00127	0.00612	1	04/28/2020 23:48	WG1467660
1,2-Dichloropropane	U	J4	0.00174	0.00612	1	04/28/2020 23:48	WG1467660
1,1-Dichloropropene	U		0.000991	0.00306	1	04/28/2020 23:48	WG1467660
1,3-Dichloropropane	U		0.000613	0.00612	1	04/28/2020 23:48	WG1467660
cis-1,3-Dichloropropene	U		0.000927	0.00306	1	04/28/2020 23:48	WG1467660
trans-1,3-Dichloropropene	U		0.00140	0.00612	1	04/28/2020 23:48	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00228	0.00612	1	04/28/2020 23:48	WG1467660
2,2-Dichloropropane	U		0.00169	0.00306	1	04/28/2020 23:48	WG1467660
Di-isopropyl ether	U		0.000502	0.00122	1	04/28/2020 23:48	WG1467660
Ethylbenzene	U		0.000902	0.00306	1	04/28/2020 23:48	WG1467660
Hexachloro-1,3-butadiene	U	J0	0.00735	0.0306	1	04/28/2020 23:48	WG1467660
2-Hexanone	U	J4	0.00411	0.0306	1	04/28/2020 23:48	WG1467660
n-Hexane	U		0.00277	0.00612	1	04/28/2020 23:48	WG1467660
Iodomethane	U		0.00284	0.0153	1	04/28/2020 23:48	WG1467660
Isopropylbenzene	U		0.000520	0.00306	1	04/28/2020 23:48	WG1467660
p-Isopropyltoluene	U		0.00312	0.00612	1	04/28/2020 23:48	WG1467660
2-Butanone (MEK)	U		0.0778	0.122	1	04/28/2020 23:48	WG1467660
Methylene Chloride	U		0.00813	0.0306	1	04/28/2020 23:48	WG1467660
4-Methyl-2-pentanone (MIBK)	U	J4	0.00279	0.0306	1	04/28/2020 23:48	WG1467660

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



Collected date/time: 04/22/20 09:42

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000429	0.00122	1	04/28/2020 23:48	WG1467660
Naphthalene	U	<u>J0</u>	0.00598	0.0153	1	04/28/2020 23:48	WG1467660
n-Propylbenzene	U		0.00116	0.00612	1	04/28/2020 23:48	WG1467660
Styrene	U	<u>J4</u>	0.000280	0.0153	1	04/28/2020 23:48	WG1467660
1,1,1,2-Tetrachloroethane	U		0.00116	0.00306	1	04/28/2020 23:48	WG1467660
1,1,2,2-Tetrachloroethane	U		0.000851	0.00306	1	04/28/2020 23:48	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.000923	0.00306	1	04/28/2020 23:48	WG1467660
Tetrachloroethene	U		0.00110	0.00306	1	04/28/2020 23:48	WG1467660
Toluene	U		0.00159	0.00612	1	04/28/2020 23:48	WG1467660
1,2,3-Trichlorobenzene	U	<u>J0</u>	0.00898	0.0153	1	04/28/2020 23:48	WG1467660
1,2,4-Trichlorobenzene	U		0.00539	0.0153	1	04/28/2020 23:48	WG1467660
1,1,1-Trichloroethane	U		0.00113	0.00306	1	04/28/2020 23:48	WG1467660
1,1,2-Trichloroethane	U		0.000731	0.00306	1	04/28/2020 23:48	WG1467660
Trichloroethene	U		0.000715	0.00122	1	04/28/2020 23:48	WG1467660
Trichlorofluoromethane	U		0.00101	0.00306	1	04/28/2020 23:48	WG1467660
1,2,3-Trichloropropane	U		0.00198	0.0153	1	04/28/2020 23:48	WG1467660
1,2,4-Trimethylbenzene	U		0.00193	0.00612	1	04/28/2020 23:48	WG1467660
1,2,3-Trimethylbenzene	U		0.00193	0.00612	1	04/28/2020 23:48	WG1467660
1,3,5-Trimethylbenzene	U		0.00245	0.00612	1	04/28/2020 23:48	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00311	0.0153	1	04/28/2020 23:48	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00142	0.00306	1	04/28/2020 23:48	WG1467660
Xylenes, Total	U		0.00108	0.00796	1	04/28/2020 23:48	WG1467660
(S) Toluene-d8	112			75.0-131		04/28/2020 23:48	WG1467660
(S) 4-Bromofluorobenzene	103			67.0-138		04/28/2020 23:48	WG1467660
(S) 1,2-Dichloroethane-d4	93.9			70.0-130		04/28/2020 23:48	WG1467660

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	60.8		1	05/04/2020 15:33	WG1469318

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.105	<u>JO</u>	0.0601	0.0823	1	04/29/2020 00:07	WG1467660
Acrylonitrile	U		0.00594	0.0206	1	04/29/2020 00:07	WG1467660
Benzene	U		0.000769	0.00165	1	04/29/2020 00:07	WG1467660
Bromobenzene	U		0.00148	0.0206	1	04/29/2020 00:07	WG1467660
Bromodichloromethane	U		0.00119	0.00411	1	04/29/2020 00:07	WG1467660
Bromochloromethane	U		0.000928	0.00823	1	04/29/2020 00:07	WG1467660
Bromoform	U		0.00193	0.0411	1	04/29/2020 00:07	WG1467660
Bromomethane	U		0.00324	0.0206	1	04/29/2020 00:07	WG1467660
n-Butylbenzene	U		0.00864	0.0206	1	04/29/2020 00:07	WG1467660
sec-Butylbenzene	U		0.00474	0.0206	1	04/29/2020 00:07	WG1467660
tert-Butylbenzene	U		0.00321	0.00823	1	04/29/2020 00:07	WG1467660
Carbon disulfide	U		0.00115	0.0206	1	04/29/2020 00:07	WG1467660
Carbon tetrachloride	U		0.00148	0.00823	1	04/29/2020 00:07	WG1467660
Chlorobenzene	U		0.000346	0.00411	1	04/29/2020 00:07	WG1467660
Chlorodibromomethane	U		0.00101	0.00411	1	04/29/2020 00:07	WG1467660
Chloroethane	U		0.00280	0.00823	1	04/29/2020 00:07	WG1467660
Chloroform	U		0.00170	0.00411	1	04/29/2020 00:07	WG1467660
Chloromethane	U	<u>JO</u>	0.00716	0.0206	1	04/29/2020 00:07	WG1467660
2-Chlorotoluene	U		0.00142	0.00411	1	04/29/2020 00:07	WG1467660
4-Chlorotoluene	U		0.000741	0.00823	1	04/29/2020 00:07	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00642	0.0411	1	04/29/2020 00:07	WG1467660
1,2-Dibromoethane	U		0.00107	0.00411	1	04/29/2020 00:07	WG1467660
Dibromomethane	U		0.00123	0.00823	1	04/29/2020 00:07	WG1467660
1,2-Dichlorobenzene	U		0.000700	0.00823	1	04/29/2020 00:07	WG1467660
1,3-Dichlorobenzene	U		0.000988	0.00823	1	04/29/2020 00:07	WG1467660
1,4-Dichlorobenzene	U		0.00115	0.00823	1	04/29/2020 00:07	WG1467660
Dichlorodifluoromethane	U		0.00265	0.00411	1	04/29/2020 00:07	WG1467660
1,1-Dichloroethane	U		0.000808	0.00411	1	04/29/2020 00:07	WG1467660
1,2-Dichloroethane	U		0.00107	0.00411	1	04/29/2020 00:07	WG1467660
1,1-Dichloroethene	U		0.000997	0.00411	1	04/29/2020 00:07	WG1467660
cis-1,2-Dichloroethene	U		0.00121	0.00411	1	04/29/2020 00:07	WG1467660
trans-1,2-Dichloroethene	U		0.00171	0.00823	1	04/29/2020 00:07	WG1467660
1,2-Dichloropropane	U	<u>J4</u>	0.00234	0.00823	1	04/29/2020 00:07	WG1467660
1,1-Dichloropropene	U		0.00133	0.00411	1	04/29/2020 00:07	WG1467660
1,3-Dichloropropane	U		0.000825	0.00823	1	04/29/2020 00:07	WG1467660
cis-1,3-Dichloropropene	U		0.00125	0.00411	1	04/29/2020 00:07	WG1467660
trans-1,3-Dichloropropene	U		0.00188	0.00823	1	04/29/2020 00:07	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00306	0.00823	1	04/29/2020 00:07	WG1467660
2,2-Dichloropropane	U		0.00227	0.00411	1	04/29/2020 00:07	WG1467660
Di-isopropyl ether	U		0.000675	0.00165	1	04/29/2020 00:07	WG1467660
Ethylbenzene	U		0.00121	0.00411	1	04/29/2020 00:07	WG1467660
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.00988	0.0411	1	04/29/2020 00:07	WG1467660
2-Hexanone	U	<u>J4</u>	0.00553	0.0411	1	04/29/2020 00:07	WG1467660
n-Hexane	U		0.00372	0.00823	1	04/29/2020 00:07	WG1467660
Iodomethane	U		0.00382	0.0206	1	04/29/2020 00:07	WG1467660
Isopropylbenzene	U		0.000700	0.00411	1	04/29/2020 00:07	WG1467660
p-Isopropyltoluene	U		0.00420	0.00823	1	04/29/2020 00:07	WG1467660
2-Butanone (MEK)	0.131	<u>J JO</u>	0.105	0.165	1	04/29/2020 00:07	WG1467660
Methylene Chloride	U		0.0109	0.0411	1	04/29/2020 00:07	WG1467660
4-Methyl-2-pentanone (MIBK)	U	<u>J4</u>	0.00375	0.0411	1	04/29/2020 00:07	WG1467660

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000576	0.00165	1	04/29/2020 00:07	WG1467660
Naphthalene	U	<u>J0</u>	0.00803	0.0206	1	04/29/2020 00:07	WG1467660
n-Propylbenzene	U		0.00156	0.00823	1	04/29/2020 00:07	WG1467660
Styrene	U	<u>J4</u>	0.000377	0.0206	1	04/29/2020 00:07	WG1467660
1,1,1,2-Tetrachloroethane	U		0.00156	0.00411	1	04/29/2020 00:07	WG1467660
1,1,2,2-Tetrachloroethane	U		0.00114	0.00411	1	04/29/2020 00:07	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.00124	0.00411	1	04/29/2020 00:07	WG1467660
Tetrachloroethene	U		0.00147	0.00411	1	04/29/2020 00:07	WG1467660
Toluene	U		0.00214	0.00823	1	04/29/2020 00:07	WG1467660
1,2,3-Trichlorobenzene	U	<u>J0</u>	0.0121	0.0206	1	04/29/2020 00:07	WG1467660
1,2,4-Trichlorobenzene	U		0.00724	0.0206	1	04/29/2020 00:07	WG1467660
1,1,1-Trichloroethane	U		0.00152	0.00411	1	04/29/2020 00:07	WG1467660
1,1,2-Trichloroethane	U		0.000983	0.00411	1	04/29/2020 00:07	WG1467660
Trichloroethene	U		0.000961	0.00165	1	04/29/2020 00:07	WG1467660
Trichlorofluoromethane	U		0.00136	0.00411	1	04/29/2020 00:07	WG1467660
1,2,3-Trichloropropane	U		0.00267	0.0206	1	04/29/2020 00:07	WG1467660
1,2,4-Trimethylbenzene	U		0.00260	0.00823	1	04/29/2020 00:07	WG1467660
1,2,3-Trimethylbenzene	U		0.00260	0.00823	1	04/29/2020 00:07	WG1467660
1,3,5-Trimethylbenzene	U		0.00329	0.00823	1	04/29/2020 00:07	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00418	0.0206	1	04/29/2020 00:07	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00191	0.00411	1	04/29/2020 00:07	WG1467660
Xylenes, Total	U		0.00145	0.0107	1	04/29/2020 00:07	WG1467660
(S) Toluene-d8	112			75.0-131		04/29/2020 00:07	WG1467660
(S) 4-Bromofluorobenzene	100			67.0-138		04/29/2020 00:07	WG1467660
(S) 1,2-Dichloroethane-d4	92.3			70.0-130		04/29/2020 00:07	WG1467660

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	65.7		1	05/04/2020 15:33	WG1469318

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0556	0.0761	1	04/29/2020 00:26	WG1467660
Acrylonitrile	U		0.00550	0.0190	1	04/29/2020 00:26	WG1467660
Benzene	U		0.000711	0.00152	1	04/29/2020 00:26	WG1467660
Bromobenzene	U		0.00137	0.0190	1	04/29/2020 00:26	WG1467660
Bromodichloromethane	U		0.00110	0.00381	1	04/29/2020 00:26	WG1467660
Bromochloromethane	U		0.000859	0.00761	1	04/29/2020 00:26	WG1467660
Bromoform	U		0.00178	0.0381	1	04/29/2020 00:26	WG1467660
Bromomethane	U		0.00300	0.0190	1	04/29/2020 00:26	WG1467660
n-Butylbenzene	U		0.00799	0.0190	1	04/29/2020 00:26	WG1467660
sec-Butylbenzene	U		0.00439	0.0190	1	04/29/2020 00:26	WG1467660
tert-Butylbenzene	U		0.00297	0.00761	1	04/29/2020 00:26	WG1467660
Carbon disulfide	U		0.00107	0.0190	1	04/29/2020 00:26	WG1467660
Carbon tetrachloride	U		0.00137	0.00761	1	04/29/2020 00:26	WG1467660
Chlorobenzene	U		0.000320	0.00381	1	04/29/2020 00:26	WG1467660
Chlorodibromomethane	U		0.000932	0.00381	1	04/29/2020 00:26	WG1467660
Chloroethane	U		0.00259	0.00761	1	04/29/2020 00:26	WG1467660
Chloroform	U		0.00157	0.00381	1	04/29/2020 00:26	WG1467660
Chloromethane	U	J0	0.00662	0.0190	1	04/29/2020 00:26	WG1467660
2-Chlorotoluene	U		0.00132	0.00381	1	04/29/2020 00:26	WG1467660
4-Chlorotoluene	U		0.000685	0.00761	1	04/29/2020 00:26	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00594	0.0381	1	04/29/2020 00:26	WG1467660
1,2-Dibromoethane	U		0.000987	0.00381	1	04/29/2020 00:26	WG1467660
Dibromomethane	U		0.00114	0.00761	1	04/29/2020 00:26	WG1467660
1,2-Dichlorobenzene	U		0.000647	0.00761	1	04/29/2020 00:26	WG1467660
1,3-Dichlorobenzene	U		0.000914	0.00761	1	04/29/2020 00:26	WG1467660
1,4-Dichlorobenzene	U		0.00107	0.00761	1	04/29/2020 00:26	WG1467660
Dichlorodifluoromethane	U		0.00245	0.00381	1	04/29/2020 00:26	WG1467660
1,1-Dichloroethane	U		0.000748	0.00381	1	04/29/2020 00:26	WG1467660
1,2-Dichloroethane	U		0.000988	0.00381	1	04/29/2020 00:26	WG1467660
1,1-Dichloroethene	U		0.000923	0.00381	1	04/29/2020 00:26	WG1467660
cis-1,2-Dichloroethene	U		0.00112	0.00381	1	04/29/2020 00:26	WG1467660
trans-1,2-Dichloroethene	U		0.00158	0.00761	1	04/29/2020 00:26	WG1467660
1,2-Dichloropropane	U	J4	0.00216	0.00761	1	04/29/2020 00:26	WG1467660
1,1-Dichloropropene	U		0.00123	0.00381	1	04/29/2020 00:26	WG1467660
1,3-Dichloropropane	U		0.000763	0.00761	1	04/29/2020 00:26	WG1467660
cis-1,3-Dichloropropene	U		0.00115	0.00381	1	04/29/2020 00:26	WG1467660
trans-1,3-Dichloropropene	U		0.00174	0.00761	1	04/29/2020 00:26	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00283	0.00761	1	04/29/2020 00:26	WG1467660
2,2-Dichloropropane	U		0.00210	0.00381	1	04/29/2020 00:26	WG1467660
Di-isopropyl ether	U		0.000624	0.00152	1	04/29/2020 00:26	WG1467660
Ethylbenzene	U		0.00112	0.00381	1	04/29/2020 00:26	WG1467660
Hexachloro-1,3-butadiene	U	J0	0.00914	0.0381	1	04/29/2020 00:26	WG1467660
2-Hexanone	U	J4	0.00512	0.0381	1	04/29/2020 00:26	WG1467660
n-Hexane	U		0.00344	0.00761	1	04/29/2020 00:26	WG1467660
Iodomethane	U		0.00353	0.0190	1	04/29/2020 00:26	WG1467660
Isopropylbenzene	U		0.000647	0.00381	1	04/29/2020 00:26	WG1467660
p-Isopropyltoluene	U		0.00388	0.00761	1	04/29/2020 00:26	WG1467660
2-Butanone (MEK)	U		0.0967	0.152	1	04/29/2020 00:26	WG1467660
Methylene Chloride	U		0.0101	0.0381	1	04/29/2020 00:26	WG1467660
4-Methyl-2-pentanone (MIBK)	U	J4	0.00347	0.0381	1	04/29/2020 00:26	WG1467660

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000533	0.00152	1	04/29/2020 00:26	WG1467660
Naphthalene	U	<u>J0</u>	0.00743	0.0190	1	04/29/2020 00:26	WG1467660
n-Propylbenzene	U		0.00145	0.00761	1	04/29/2020 00:26	WG1467660
Styrene	U	<u>J4</u>	0.000349	0.0190	1	04/29/2020 00:26	WG1467660
1,1,1,2-Tetrachloroethane	U		0.00144	0.00381	1	04/29/2020 00:26	WG1467660
1,1,2,2-Tetrachloroethane	U		0.00106	0.00381	1	04/29/2020 00:26	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.00115	0.00381	1	04/29/2020 00:26	WG1467660
Tetrachloroethene	0.00262	<u>J</u>	0.00136	0.00381	1	04/29/2020 00:26	WG1467660
Toluene	U		0.00198	0.00761	1	04/29/2020 00:26	WG1467660
1,2,3-Trichlorobenzene	U	<u>J0</u>	0.0112	0.0190	1	04/29/2020 00:26	WG1467660
1,2,4-Trichlorobenzene	U		0.00670	0.0190	1	04/29/2020 00:26	WG1467660
1,1,1-Trichloroethane	U		0.00141	0.00381	1	04/29/2020 00:26	WG1467660
1,1,2-Trichloroethane	U		0.000909	0.00381	1	04/29/2020 00:26	WG1467660
Trichloroethene	U		0.000889	0.00152	1	04/29/2020 00:26	WG1467660
Trichlorofluoromethane	U		0.00126	0.00381	1	04/29/2020 00:26	WG1467660
1,2,3-Trichloropropane	U		0.00247	0.0190	1	04/29/2020 00:26	WG1467660
1,2,4-Trimethylbenzene	U		0.00241	0.00761	1	04/29/2020 00:26	WG1467660
1,2,3-Trimethylbenzene	U		0.00241	0.00761	1	04/29/2020 00:26	WG1467660
1,3,5-Trimethylbenzene	U		0.00305	0.00761	1	04/29/2020 00:26	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00387	0.0190	1	04/29/2020 00:26	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00177	0.00381	1	04/29/2020 00:26	WG1467660
Xylenes, Total	U		0.00134	0.00990	1	04/29/2020 00:26	WG1467660
(S) Toluene-d8	111			75.0-131		04/29/2020 00:26	WG1467660
(S) 4-Bromofluorobenzene	104			67.0-138		04/29/2020 00:26	WG1467660
(S) 1,2-Dichloroethane-d4	92.7			70.0-130		04/29/2020 00:26	WG1467660

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.5		1	05/04/2020 15:33	WG1469318

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0448	0.0613	1	04/29/2020 00:45	WG1467660
Acrylonitrile	U		0.00443	0.0153	1	04/29/2020 00:45	WG1467660
Benzene	U		0.000573	0.00123	1	04/29/2020 00:45	WG1467660
Bromobenzene	U		0.00110	0.0153	1	04/29/2020 00:45	WG1467660
Bromodichloromethane	U		0.000890	0.00307	1	04/29/2020 00:45	WG1467660
Bromochloromethane	U		0.000692	0.00613	1	04/29/2020 00:45	WG1467660
Bromoform	U		0.00144	0.0307	1	04/29/2020 00:45	WG1467660
Bromomethane	U		0.00242	0.0153	1	04/29/2020 00:45	WG1467660
n-Butylbenzene	U		0.00644	0.0153	1	04/29/2020 00:45	WG1467660
sec-Butylbenzene	U		0.00353	0.0153	1	04/29/2020 00:45	WG1467660
tert-Butylbenzene	U		0.00239	0.00613	1	04/29/2020 00:45	WG1467660
Carbon disulfide	U		0.000859	0.0153	1	04/29/2020 00:45	WG1467660
Carbon tetrachloride	U		0.00110	0.00613	1	04/29/2020 00:45	WG1467660
Chlorobenzene	U		0.000258	0.00307	1	04/29/2020 00:45	WG1467660
Chlorodibromomethane	U		0.000751	0.00307	1	04/29/2020 00:45	WG1467660
Chloroethane	U		0.00209	0.00613	1	04/29/2020 00:45	WG1467660
Chloroform	U		0.00126	0.00307	1	04/29/2020 00:45	WG1467660
Chloromethane	U	JO	0.00534	0.0153	1	04/29/2020 00:45	WG1467660
2-Chlorotoluene	U		0.00106	0.00307	1	04/29/2020 00:45	WG1467660
4-Chlorotoluene	U		0.000552	0.00613	1	04/29/2020 00:45	WG1467660
1,2-Dibromo-3-Chloropropane	U		0.00479	0.0307	1	04/29/2020 00:45	WG1467660
1,2-Dibromoethane	U		0.000795	0.00307	1	04/29/2020 00:45	WG1467660
Dibromomethane	U		0.000920	0.00613	1	04/29/2020 00:45	WG1467660
1,2-Dichlorobenzene	U		0.000521	0.00613	1	04/29/2020 00:45	WG1467660
1,3-Dichlorobenzene	U		0.000736	0.00613	1	04/29/2020 00:45	WG1467660
1,4-Dichlorobenzene	U		0.000859	0.00613	1	04/29/2020 00:45	WG1467660
Dichlorodifluoromethane	U		0.00198	0.00307	1	04/29/2020 00:45	WG1467660
1,1-Dichloroethane	U		0.000602	0.00307	1	04/29/2020 00:45	WG1467660
1,2-Dichloroethane	U		0.000796	0.00307	1	04/29/2020 00:45	WG1467660
1,1-Dichloroethene	U		0.000744	0.00307	1	04/29/2020 00:45	WG1467660
cis-1,2-Dichloroethene	0.00302	J	0.000901	0.00307	1	04/29/2020 00:45	WG1467660
trans-1,2-Dichloroethene	U		0.00128	0.00613	1	04/29/2020 00:45	WG1467660
1,2-Dichloropropane	U	J4	0.00174	0.00613	1	04/29/2020 00:45	WG1467660
1,1-Dichloropropene	U		0.000993	0.00307	1	04/29/2020 00:45	WG1467660
1,3-Dichloropropane	U		0.000615	0.00613	1	04/29/2020 00:45	WG1467660
cis-1,3-Dichloropropene	U		0.000929	0.00307	1	04/29/2020 00:45	WG1467660
trans-1,3-Dichloropropene	U		0.00140	0.00613	1	04/29/2020 00:45	WG1467660
trans-1,4-Dichloro-2-butene	U		0.00228	0.00613	1	04/29/2020 00:45	WG1467660
2,2-Dichloropropane	U		0.00169	0.00307	1	04/29/2020 00:45	WG1467660
Di-isopropyl ether	U		0.000503	0.00123	1	04/29/2020 00:45	WG1467660
Ethylbenzene	U		0.000904	0.00307	1	04/29/2020 00:45	WG1467660
Hexachloro-1,3-butadiene	U	JO	0.00736	0.0307	1	04/29/2020 00:45	WG1467660
2-Hexanone	U	J4	0.00412	0.0307	1	04/29/2020 00:45	WG1467660
n-Hexane	U		0.00277	0.00613	1	04/29/2020 00:45	WG1467660
Iodomethane	U		0.00285	0.0153	1	04/29/2020 00:45	WG1467660
Isopropylbenzene	U		0.000521	0.00307	1	04/29/2020 00:45	WG1467660
p-Isopropyltoluene	U		0.00313	0.00613	1	04/29/2020 00:45	WG1467660
2-Butanone (MEK)	U		0.0779	0.123	1	04/29/2020 00:45	WG1467660
Methylene Chloride	U		0.00815	0.0307	1	04/29/2020 00:45	WG1467660
4-Methyl-2-pentanone (MIBK)	U	J4	0.00280	0.0307	1	04/29/2020 00:45	WG1467660

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/22/20 11:07

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000429	0.00123	1	04/29/2020 00:45	WG1467660
Naphthalene	U	<u>J0</u>	0.00599	0.0153	1	04/29/2020 00:45	WG1467660
n-Propylbenzene	U		0.00117	0.00613	1	04/29/2020 00:45	WG1467660
Styrene	U	<u>J4</u>	0.000281	0.0153	1	04/29/2020 00:45	WG1467660
1,1,1,2-Tetrachloroethane	U		0.00116	0.00307	1	04/29/2020 00:45	WG1467660
1,1,2,2-Tetrachloroethane	U		0.000853	0.00307	1	04/29/2020 00:45	WG1467660
1,1,2-Trichlorotrifluoroethane	U		0.000925	0.00307	1	04/29/2020 00:45	WG1467660
Tetrachloroethene	U		0.00110	0.00307	1	04/29/2020 00:45	WG1467660
Toluene	0.00193	<u>J</u>	0.00160	0.00613	1	04/29/2020 00:45	WG1467660
1,2,3-Trichlorobenzene	U	<u>J0</u>	0.00899	0.0153	1	04/29/2020 00:45	WG1467660
1,2,4-Trichlorobenzene	U		0.00540	0.0153	1	04/29/2020 00:45	WG1467660
1,1,1-Trichloroethane	U		0.00113	0.00307	1	04/29/2020 00:45	WG1467660
1,1,2-Trichloroethane	U		0.000733	0.00307	1	04/29/2020 00:45	WG1467660
Trichloroethene	U		0.000717	0.00123	1	04/29/2020 00:45	WG1467660
Trichlorofluoromethane	U		0.00101	0.00307	1	04/29/2020 00:45	WG1467660
1,2,3-Trichloropropane	U		0.00199	0.0153	1	04/29/2020 00:45	WG1467660
1,2,4-Trimethylbenzene	U		0.00194	0.00613	1	04/29/2020 00:45	WG1467660
1,2,3-Trimethylbenzene	U		0.00194	0.00613	1	04/29/2020 00:45	WG1467660
1,3,5-Trimethylbenzene	U		0.00245	0.00613	1	04/29/2020 00:45	WG1467660
Vinyl acetate	U	<u>J4</u>	0.00312	0.0153	1	04/29/2020 00:45	WG1467660
Vinyl chloride	U	<u>J4</u>	0.00142	0.00307	1	04/29/2020 00:45	WG1467660
Xylenes, Total	U		0.00108	0.00798	1	04/29/2020 00:45	WG1467660
(S) Toluene-d8	112			75.0-131		04/29/2020 00:45	WG1467660
(S) 4-Bromofluorobenzene	102			67.0-138		04/29/2020 00:45	WG1467660
(S) 1,2-Dichloroethane-d4	92.8			70.0-130		04/29/2020 00:45	WG1467660

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.9		1	05/04/2020 15:33	WG1469318

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0440	0.0603	1	04/29/2020 12:51	WG1467916
Acrylonitrile	U		0.00435	0.0151	1	04/29/2020 12:51	WG1467916
Benzene	U		0.000563	0.00121	1	04/29/2020 12:51	WG1467916
Bromobenzene	U		0.00109	0.0151	1	04/29/2020 12:51	WG1467916
Bromodichloromethane	U		0.000874	0.00301	1	04/29/2020 12:51	WG1467916
Bromochloromethane	U		0.000680	0.00603	1	04/29/2020 12:51	WG1467916
Bromoform	U	J0	0.00141	0.0301	1	04/29/2020 12:51	WG1467916
Bromomethane	U		0.00238	0.0151	1	04/29/2020 12:51	WG1467916
n-Butylbenzene	U		0.00633	0.0151	1	04/29/2020 12:51	WG1467916
sec-Butylbenzene	U		0.00347	0.0151	1	04/29/2020 12:51	WG1467916
tert-Butylbenzene	U		0.00235	0.00603	1	04/29/2020 12:51	WG1467916
Carbon disulfide	U		0.000844	0.0151	1	04/29/2020 12:51	WG1467916
Carbon tetrachloride	U		0.00108	0.00603	1	04/29/2020 12:51	WG1467916
Chlorobenzene	U		0.000253	0.00301	1	04/29/2020 12:51	WG1467916
Chlorodibromomethane	U		0.000738	0.00301	1	04/29/2020 12:51	WG1467916
Chloroethane	U		0.00205	0.00603	1	04/29/2020 12:51	WG1467916
Chloroform	U		0.00124	0.00301	1	04/29/2020 12:51	WG1467916
Chloromethane	U	J4	0.00524	0.0151	1	04/29/2020 12:51	WG1467916
2-Chlorotoluene	U		0.00104	0.00301	1	04/29/2020 12:51	WG1467916
4-Chlorotoluene	U		0.000543	0.00603	1	04/29/2020 12:51	WG1467916
1,2-Dibromo-3-Chloropropane	U		0.00470	0.0301	1	04/29/2020 12:51	WG1467916
1,2-Dibromoethane	U		0.000781	0.00301	1	04/29/2020 12:51	WG1467916
Dibromomethane	U		0.000904	0.00603	1	04/29/2020 12:51	WG1467916
1,2-Dichlorobenzene	U		0.000512	0.00603	1	04/29/2020 12:51	WG1467916
1,3-Dichlorobenzene	U		0.000723	0.00603	1	04/29/2020 12:51	WG1467916
1,4-Dichlorobenzene	U		0.000844	0.00603	1	04/29/2020 12:51	WG1467916
Dichlorodifluoromethane	U		0.00194	0.00301	1	04/29/2020 12:51	WG1467916
1,1-Dichloroethane	U		0.000592	0.00301	1	04/29/2020 12:51	WG1467916
1,2-Dichloroethane	U		0.000782	0.00301	1	04/29/2020 12:51	WG1467916
1,1-Dichloroethene	U		0.000731	0.00301	1	04/29/2020 12:51	WG1467916
cis-1,2-Dichloroethene	U		0.000885	0.00301	1	04/29/2020 12:51	WG1467916
trans-1,2-Dichloroethene	U		0.00125	0.00603	1	04/29/2020 12:51	WG1467916
1,2-Dichloropropane	U		0.00171	0.00603	1	04/29/2020 12:51	WG1467916
1,1-Dichloropropene	U		0.000975	0.00301	1	04/29/2020 12:51	WG1467916
1,3-Dichloropropane	U		0.000604	0.00603	1	04/29/2020 12:51	WG1467916
cis-1,3-Dichloropropene	U		0.000913	0.00301	1	04/29/2020 12:51	WG1467916
trans-1,3-Dichloropropene	U		0.00137	0.00603	1	04/29/2020 12:51	WG1467916
trans-1,4-Dichloro-2-butene	U	J4	0.00224	0.00603	1	04/29/2020 12:51	WG1467916
2,2-Dichloropropane	U		0.00166	0.00301	1	04/29/2020 12:51	WG1467916
Di-isopropyl ether	U	J4	0.000494	0.00121	1	04/29/2020 12:51	WG1467916
Ethylbenzene	U		0.000889	0.00301	1	04/29/2020 12:51	WG1467916
Hexachloro-1,3-butadiene	U	J0	0.00723	0.0301	1	04/29/2020 12:51	WG1467916
2-Hexanone	U		0.00405	0.0301	1	04/29/2020 12:51	WG1467916
n-Hexane	U		0.00272	0.00603	1	04/29/2020 12:51	WG1467916
Iodomethane	U		0.00280	0.0151	1	04/29/2020 12:51	WG1467916
Isopropylbenzene	U		0.000512	0.00301	1	04/29/2020 12:51	WG1467916
p-Isopropyltoluene	U		0.00307	0.00603	1	04/29/2020 12:51	WG1467916
2-Butanone (MEK)	U		0.0766	0.121	1	04/29/2020 12:51	WG1467916
Methylene Chloride	U		0.00801	0.0301	1	04/29/2020 12:51	WG1467916
4-Methyl-2-pentanone (MIBK)	U		0.00275	0.0301	1	04/29/2020 12:51	WG1467916

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



Collected date/time: 04/22/20 11:10

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000422	0.00121	1	04/29/2020 12:51	WG1467916
Naphthalene	U		0.00588	0.0151	1	04/29/2020 12:51	WG1467916
n-Propylbenzene	U		0.00115	0.00603	1	04/29/2020 12:51	WG1467916
Styrene	U		0.000276	0.0151	1	04/29/2020 12:51	WG1467916
1,1,1,2-Tetrachloroethane	U		0.00114	0.00301	1	04/29/2020 12:51	WG1467916
1,1,2,2-Tetrachloroethane	U		0.000838	0.00301	1	04/29/2020 12:51	WG1467916
1,1,2-Trichlorotrifluoroethane	U		0.000909	0.00301	1	04/29/2020 12:51	WG1467916
Tetrachloroethene	U		0.00108	0.00301	1	04/29/2020 12:51	WG1467916
Toluene	0.00174	J	0.00157	0.00603	1	04/29/2020 12:51	WG1467916
1,2,3-Trichlorobenzene	U		0.00884	0.0151	1	04/29/2020 12:51	WG1467916
1,2,4-Trichlorobenzene	U	JO	0.00530	0.0151	1	04/29/2020 12:51	WG1467916
1,1,1-Trichloroethane	U		0.00111	0.00301	1	04/29/2020 12:51	WG1467916
1,1,2-Trichloroethane	U		0.000720	0.00301	1	04/29/2020 12:51	WG1467916
Trichloroethene	U		0.000704	0.00121	1	04/29/2020 12:51	WG1467916
Trichlorofluoromethane	U		0.000997	0.00301	1	04/29/2020 12:51	WG1467916
1,2,3-Trichloropropane	U		0.00195	0.0151	1	04/29/2020 12:51	WG1467916
1,2,4-Trimethylbenzene	U		0.00190	0.00603	1	04/29/2020 12:51	WG1467916
1,2,3-Trimethylbenzene	U		0.00190	0.00603	1	04/29/2020 12:51	WG1467916
1,3,5-Trimethylbenzene	U		0.00241	0.00603	1	04/29/2020 12:51	WG1467916
Vinyl acetate	U		0.00306	0.0151	1	04/29/2020 12:51	WG1467916
Vinyl chloride	U	J4	0.00140	0.00301	1	04/29/2020 12:51	WG1467916
Xylenes, Total	U		0.00106	0.00784	1	04/29/2020 12:51	WG1467916
(S) Toluene-d8	109			75.0-131		04/29/2020 12:51	WG1467916
(S) 4-Bromofluorobenzene	89.1			67.0-138		04/29/2020 12:51	WG1467916
(S) 1,2-Dichloroethane-d4	92.6			70.0-130		04/29/2020 12:51	WG1467916

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.3		1	05/04/2020 15:33	WG1469318

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0485	0.0664	1	04/29/2020 13:10	WG1467916
Acrylonitrile	U		0.00479	0.0166	1	04/29/2020 13:10	WG1467916
Benzene	U		0.000620	0.00133	1	04/29/2020 13:10	WG1467916
Bromobenzene	U		0.00120	0.0166	1	04/29/2020 13:10	WG1467916
Bromodichloromethane	U		0.000963	0.00332	1	04/29/2020 13:10	WG1467916
Bromochloromethane	U		0.000749	0.00664	1	04/29/2020 13:10	WG1467916
Bromoform	U	J0	0.00155	0.0332	1	04/29/2020 13:10	WG1467916
Bromomethane	U		0.00262	0.0166	1	04/29/2020 13:10	WG1467916
n-Butylbenzene	U		0.00697	0.0166	1	04/29/2020 13:10	WG1467916
sec-Butylbenzene	U		0.00382	0.0166	1	04/29/2020 13:10	WG1467916
tert-Butylbenzene	U		0.00259	0.00664	1	04/29/2020 13:10	WG1467916
Carbon disulfide	U		0.000930	0.0166	1	04/29/2020 13:10	WG1467916
Carbon tetrachloride	U		0.00119	0.00664	1	04/29/2020 13:10	WG1467916
Chlorobenzene	U		0.000279	0.00332	1	04/29/2020 13:10	WG1467916
Chlorodibromomethane	U		0.000813	0.00332	1	04/29/2020 13:10	WG1467916
Chloroethane	U		0.00226	0.00664	1	04/29/2020 13:10	WG1467916
Chloroform	U		0.00137	0.00332	1	04/29/2020 13:10	WG1467916
Chloromethane	U	J4	0.00578	0.0166	1	04/29/2020 13:10	WG1467916
2-Chlorotoluene	U		0.00115	0.00332	1	04/29/2020 13:10	WG1467916
4-Chlorotoluene	U		0.000598	0.00664	1	04/29/2020 13:10	WG1467916
1,2-Dibromo-3-Chloropropane	U		0.00518	0.0332	1	04/29/2020 13:10	WG1467916
1,2-Dibromoethane	U		0.000861	0.00332	1	04/29/2020 13:10	WG1467916
Dibromomethane	U		0.000996	0.00664	1	04/29/2020 13:10	WG1467916
1,2-Dichlorobenzene	U		0.000564	0.00664	1	04/29/2020 13:10	WG1467916
1,3-Dichlorobenzene	U		0.000797	0.00664	1	04/29/2020 13:10	WG1467916
1,4-Dichlorobenzene	U		0.000930	0.00664	1	04/29/2020 13:10	WG1467916
Dichlorodifluoromethane	U		0.00214	0.00332	1	04/29/2020 13:10	WG1467916
1,1-Dichloroethane	U		0.000652	0.00332	1	04/29/2020 13:10	WG1467916
1,2-Dichloroethane	U		0.000862	0.00332	1	04/29/2020 13:10	WG1467916
1,1-Dichloroethene	U		0.000805	0.00332	1	04/29/2020 13:10	WG1467916
cis-1,2-Dichloroethene	0.0159		0.000975	0.00332	1	04/29/2020 13:10	WG1467916
trans-1,2-Dichloroethene	U		0.00138	0.00664	1	04/29/2020 13:10	WG1467916
1,2-Dichloropropane	U		0.00189	0.00664	1	04/29/2020 13:10	WG1467916
1,1-Dichloropropene	U		0.00107	0.00332	1	04/29/2020 13:10	WG1467916
1,3-Dichloropropane	U		0.000665	0.00664	1	04/29/2020 13:10	WG1467916
cis-1,3-Dichloropropene	U		0.00101	0.00332	1	04/29/2020 13:10	WG1467916
trans-1,3-Dichloropropene	U		0.00151	0.00664	1	04/29/2020 13:10	WG1467916
trans-1,4-Dichloro-2-butene	U	J4	0.00247	0.00664	1	04/29/2020 13:10	WG1467916
2,2-Dichloropropane	U		0.00183	0.00332	1	04/29/2020 13:10	WG1467916
Di-isopropyl ether	U	J4	0.000545	0.00133	1	04/29/2020 13:10	WG1467916
Ethylbenzene	U		0.000979	0.00332	1	04/29/2020 13:10	WG1467916
Hexachloro-1,3-butadiene	U	J0	0.00797	0.0332	1	04/29/2020 13:10	WG1467916
2-Hexanone	U		0.00446	0.0332	1	04/29/2020 13:10	WG1467916
n-Hexane	U		0.00300	0.00664	1	04/29/2020 13:10	WG1467916
Iodomethane	U		0.00308	0.0166	1	04/29/2020 13:10	WG1467916
Isopropylbenzene	U		0.000564	0.00332	1	04/29/2020 13:10	WG1467916
p-Isopropyltoluene	U		0.00339	0.00664	1	04/29/2020 13:10	WG1467916
2-Butanone (MEK)	U		0.0843	0.133	1	04/29/2020 13:10	WG1467916
Methylene Chloride	U		0.00882	0.0332	1	04/29/2020 13:10	WG1467916
4-Methyl-2-pentanone (MIBK)	U		0.00303	0.0332	1	04/29/2020 13:10	WG1467916

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



Collected date/time: 04/22/20 12:40

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000465	0.00133	1	04/29/2020 13:10	WG1467916
Naphthalene	U		0.00648	0.0166	1	04/29/2020 13:10	WG1467916
n-Propylbenzene	U		0.00126	0.00664	1	04/29/2020 13:10	WG1467916
Styrene	U		0.000304	0.0166	1	04/29/2020 13:10	WG1467916
1,1,1,2-Tetrachloroethane	U		0.00126	0.00332	1	04/29/2020 13:10	WG1467916
1,1,2,2-Tetrachloroethane	U		0.000923	0.00332	1	04/29/2020 13:10	WG1467916
1,1,2-Trichlorotrifluoroethane	U		0.00100	0.00332	1	04/29/2020 13:10	WG1467916
Tetrachloroethene	U		0.00119	0.00332	1	04/29/2020 13:10	WG1467916
Toluene	U		0.00173	0.00664	1	04/29/2020 13:10	WG1467916
1,2,3-Trichlorobenzene	U		0.00973	0.0166	1	04/29/2020 13:10	WG1467916
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00584	0.0166	1	04/29/2020 13:10	WG1467916
1,1,1-Trichloroethane	U		0.00123	0.00332	1	04/29/2020 13:10	WG1467916
1,1,2-Trichloroethane	U		0.000793	0.00332	1	04/29/2020 13:10	WG1467916
Trichloroethene	0.00301		0.000776	0.00133	1	04/29/2020 13:10	WG1467916
Trichlorofluoromethane	U		0.00110	0.00332	1	04/29/2020 13:10	WG1467916
1,2,3-Trichloropropane	U		0.00215	0.0166	1	04/29/2020 13:10	WG1467916
1,2,4-Trimethylbenzene	U		0.00210	0.00664	1	04/29/2020 13:10	WG1467916
1,2,3-Trimethylbenzene	U		0.00210	0.00664	1	04/29/2020 13:10	WG1467916
1,3,5-Trimethylbenzene	U		0.00266	0.00664	1	04/29/2020 13:10	WG1467916
Vinyl acetate	U		0.00337	0.0166	1	04/29/2020 13:10	WG1467916
Vinyl chloride	U	<u>J4</u>	0.00154	0.00332	1	04/29/2020 13:10	WG1467916
Xylenes, Total	U		0.00117	0.00863	1	04/29/2020 13:10	WG1467916
(S) Toluene-d8	108			75.0-131		04/29/2020 13:10	WG1467916
(S) 4-Bromofluorobenzene	87.3			67.0-138		04/29/2020 13:10	WG1467916
(S) 1,2-Dichloroethane-d4	94.9			70.0-130		04/29/2020 13:10	WG1467916

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.9		1	05/04/2020 15:33	WG1469318

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0420	0.0576	1	04/29/2020 13:29	WG1467916
Acrylonitrile	U		0.00416	0.0144	1	04/29/2020 13:29	WG1467916
Benzene	0.00149		0.000538	0.00115	1	04/29/2020 13:29	WG1467916
Bromobenzene	U		0.00104	0.0144	1	04/29/2020 13:29	WG1467916
Bromodichloromethane	U		0.000835	0.00288	1	04/29/2020 13:29	WG1467916
Bromochloromethane	U		0.000649	0.00576	1	04/29/2020 13:29	WG1467916
Bromoform	U	J0	0.00135	0.0288	1	04/29/2020 13:29	WG1467916
Bromomethane	U		0.00227	0.0144	1	04/29/2020 13:29	WG1467916
n-Butylbenzene	U		0.00604	0.0144	1	04/29/2020 13:29	WG1467916
sec-Butylbenzene	U		0.00332	0.0144	1	04/29/2020 13:29	WG1467916
tert-Butylbenzene	U		0.00225	0.00576	1	04/29/2020 13:29	WG1467916
Carbon disulfide	U		0.000806	0.0144	1	04/29/2020 13:29	WG1467916
Carbon tetrachloride	U		0.00103	0.00576	1	04/29/2020 13:29	WG1467916
Chlorobenzene	U		0.000242	0.00288	1	04/29/2020 13:29	WG1467916
Chlorodibromomethane	U		0.000705	0.00288	1	04/29/2020 13:29	WG1467916
Chloroethane	U		0.00196	0.00576	1	04/29/2020 13:29	WG1467916
Chloroform	U		0.00119	0.00288	1	04/29/2020 13:29	WG1467916
Chloromethane	U	J4	0.00501	0.0144	1	04/29/2020 13:29	WG1467916
2-Chlorotoluene	U		0.000996	0.00288	1	04/29/2020 13:29	WG1467916
4-Chlorotoluene	U		0.000518	0.00576	1	04/29/2020 13:29	WG1467916
1,2-Dibromo-3-Chloropropane	U		0.00449	0.0288	1	04/29/2020 13:29	WG1467916
1,2-Dibromoethane	U		0.000746	0.00288	1	04/29/2020 13:29	WG1467916
Dibromomethane	U		0.000863	0.00576	1	04/29/2020 13:29	WG1467916
1,2-Dichlorobenzene	U		0.000489	0.00576	1	04/29/2020 13:29	WG1467916
1,3-Dichlorobenzene	U		0.000691	0.00576	1	04/29/2020 13:29	WG1467916
1,4-Dichlorobenzene	U		0.000806	0.00576	1	04/29/2020 13:29	WG1467916
Dichlorodifluoromethane	U		0.00185	0.00288	1	04/29/2020 13:29	WG1467916
1,1-Dichloroethane	U		0.000565	0.00288	1	04/29/2020 13:29	WG1467916
1,2-Dichloroethane	U		0.000747	0.00288	1	04/29/2020 13:29	WG1467916
1,1-Dichloroethene	U		0.000698	0.00288	1	04/29/2020 13:29	WG1467916
cis-1,2-Dichloroethene	0.00694		0.000845	0.00288	1	04/29/2020 13:29	WG1467916
trans-1,2-Dichloroethene	U		0.00120	0.00576	1	04/29/2020 13:29	WG1467916
1,2-Dichloropropane	U		0.00163	0.00576	1	04/29/2020 13:29	WG1467916
1,1-Dichloropropene	U		0.000931	0.00288	1	04/29/2020 13:29	WG1467916
1,3-Dichloropropane	U		0.000577	0.00576	1	04/29/2020 13:29	WG1467916
cis-1,3-Dichloropropene	U		0.000872	0.00288	1	04/29/2020 13:29	WG1467916
trans-1,3-Dichloropropene	U		0.00131	0.00576	1	04/29/2020 13:29	WG1467916
trans-1,4-Dichloro-2-butene	U	J4	0.00214	0.00576	1	04/29/2020 13:29	WG1467916
2,2-Dichloropropane	U		0.00159	0.00288	1	04/29/2020 13:29	WG1467916
Di-isopropyl ether	U	J4	0.000472	0.00115	1	04/29/2020 13:29	WG1467916
Ethylbenzene	U		0.000848	0.00288	1	04/29/2020 13:29	WG1467916
Hexachloro-1,3-butadiene	U	J0	0.00691	0.0288	1	04/29/2020 13:29	WG1467916
2-Hexanone	U		0.00387	0.0288	1	04/29/2020 13:29	WG1467916
n-Hexane	U		0.00260	0.00576	1	04/29/2020 13:29	WG1467916
Iodomethane	U		0.00267	0.0144	1	04/29/2020 13:29	WG1467916
Isopropylbenzene	U		0.000489	0.00288	1	04/29/2020 13:29	WG1467916
p-Isopropyltoluene	U		0.00294	0.00576	1	04/29/2020 13:29	WG1467916
2-Butanone (MEK)	U		0.0731	0.115	1	04/29/2020 13:29	WG1467916
Methylene Chloride	U		0.00764	0.0288	1	04/29/2020 13:29	WG1467916
4-Methyl-2-pentanone (MIBK)	U		0.00262	0.0288	1	04/29/2020 13:29	WG1467916

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



Collected date/time: 04/22/20 12:42

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000403	0.00115	1	04/29/2020 13:29	WG1467916
Naphthalene	U		0.00562	0.0144	1	04/29/2020 13:29	WG1467916
n-Propylbenzene	U		0.00109	0.00576	1	04/29/2020 13:29	WG1467916
Styrene	U		0.000264	0.0144	1	04/29/2020 13:29	WG1467916
1,1,1,2-Tetrachloroethane	U		0.00109	0.00288	1	04/29/2020 13:29	WG1467916
1,1,2,2-Tetrachloroethane	U		0.000800	0.00288	1	04/29/2020 13:29	WG1467916
1,1,2-Trichlorotrifluoroethane	U		0.000868	0.00288	1	04/29/2020 13:29	WG1467916
Tetrachloroethene	U		0.00103	0.00288	1	04/29/2020 13:29	WG1467916
Toluene	U		0.00150	0.00576	1	04/29/2020 13:29	WG1467916
1,2,3-Trichlorobenzene	U		0.00844	0.0144	1	04/29/2020 13:29	WG1467916
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00507	0.0144	1	04/29/2020 13:29	WG1467916
1,1,1-Trichloroethane	U		0.00106	0.00288	1	04/29/2020 13:29	WG1467916
1,1,2-Trichloroethane	U		0.000687	0.00288	1	04/29/2020 13:29	WG1467916
Trichloroethene	0.00297		0.000672	0.00115	1	04/29/2020 13:29	WG1467916
Trichlorofluoromethane	U		0.000952	0.00288	1	04/29/2020 13:29	WG1467916
1,2,3-Trichloropropane	U		0.00187	0.0144	1	04/29/2020 13:29	WG1467916
1,2,4-Trimethylbenzene	U		0.00182	0.00576	1	04/29/2020 13:29	WG1467916
1,2,3-Trimethylbenzene	U		0.00182	0.00576	1	04/29/2020 13:29	WG1467916
1,3,5-Trimethylbenzene	U		0.00230	0.00576	1	04/29/2020 13:29	WG1467916
Vinyl acetate	U		0.00292	0.0144	1	04/29/2020 13:29	WG1467916
Vinyl chloride	U	<u>J4</u>	0.00134	0.00288	1	04/29/2020 13:29	WG1467916
Xylenes, Total	U		0.00101	0.00748	1	04/29/2020 13:29	WG1467916
(S) Toluene-d8	107			75.0-131		04/29/2020 13:29	WG1467916
(S) 4-Bromofluorobenzene	90.6			67.0-138		04/29/2020 13:29	WG1467916
(S) 1,2-Dichloroethane-d4	94.6			70.0-130		04/29/2020 13:29	WG1467916

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.5		1	05/04/2020 15:33	WG1469318

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0417	0.0571	1	04/29/2020 13:48	WG1467916
Acrylonitrile	U		0.00412	0.0143	1	04/29/2020 13:48	WG1467916
Benzene	0.00153		0.000533	0.00114	1	04/29/2020 13:48	WG1467916
Bromobenzene	U		0.00103	0.0143	1	04/29/2020 13:48	WG1467916
Bromodichloromethane	U		0.000828	0.00286	1	04/29/2020 13:48	WG1467916
Bromochloromethane	U		0.000644	0.00571	1	04/29/2020 13:48	WG1467916
Bromoform	U	J0	0.00134	0.0286	1	04/29/2020 13:48	WG1467916
Bromomethane	U		0.00225	0.0143	1	04/29/2020 13:48	WG1467916
n-Butylbenzene	U		0.00600	0.0143	1	04/29/2020 13:48	WG1467916
sec-Butylbenzene	U		0.00329	0.0143	1	04/29/2020 13:48	WG1467916
tert-Butylbenzene	U		0.00223	0.00571	1	04/29/2020 13:48	WG1467916
Carbon disulfide	U		0.000800	0.0143	1	04/29/2020 13:48	WG1467916
Carbon tetrachloride	U		0.00103	0.00571	1	04/29/2020 13:48	WG1467916
Chlorobenzene	U		0.000240	0.00286	1	04/29/2020 13:48	WG1467916
Chlorodibromomethane	U		0.000699	0.00286	1	04/29/2020 13:48	WG1467916
Chloroethane	U		0.00194	0.00571	1	04/29/2020 13:48	WG1467916
Chloroform	U		0.00118	0.00286	1	04/29/2020 13:48	WG1467916
Chloromethane	U	J4	0.00497	0.0143	1	04/29/2020 13:48	WG1467916
2-Chlorotoluene	U		0.000988	0.00286	1	04/29/2020 13:48	WG1467916
4-Chlorotoluene	U		0.000514	0.00571	1	04/29/2020 13:48	WG1467916
1,2-Dibromo-3-Chloropropane	U		0.00446	0.0286	1	04/29/2020 13:48	WG1467916
1,2-Dibromoethane	U		0.000740	0.00286	1	04/29/2020 13:48	WG1467916
Dibromomethane	U		0.000857	0.00571	1	04/29/2020 13:48	WG1467916
1,2-Dichlorobenzene	U		0.000485	0.00571	1	04/29/2020 13:48	WG1467916
1,3-Dichlorobenzene	U		0.000685	0.00571	1	04/29/2020 13:48	WG1467916
1,4-Dichlorobenzene	U		0.000800	0.00571	1	04/29/2020 13:48	WG1467916
Dichlorodifluoromethane	U		0.00184	0.00286	1	04/29/2020 13:48	WG1467916
1,1-Dichloroethane	U		0.000561	0.00286	1	04/29/2020 13:48	WG1467916
1,2-Dichloroethane	U		0.000741	0.00286	1	04/29/2020 13:48	WG1467916
1,1-Dichloroethene	U		0.000692	0.00286	1	04/29/2020 13:48	WG1467916
cis-1,2-Dichloroethene	0.0138		0.000838	0.00286	1	04/29/2020 13:48	WG1467916
trans-1,2-Dichloroethene	U		0.00119	0.00571	1	04/29/2020 13:48	WG1467916
1,2-Dichloropropane	U		0.00162	0.00571	1	04/29/2020 13:48	WG1467916
1,1-Dichloropropene	U		0.000924	0.00286	1	04/29/2020 13:48	WG1467916
1,3-Dichloropropane	U		0.000572	0.00571	1	04/29/2020 13:48	WG1467916
cis-1,3-Dichloropropene	U		0.000865	0.00286	1	04/29/2020 13:48	WG1467916
trans-1,3-Dichloropropene	U		0.00130	0.00571	1	04/29/2020 13:48	WG1467916
trans-1,4-Dichloro-2-butene	U	J4	0.00212	0.00571	1	04/29/2020 13:48	WG1467916
2,2-Dichloropropane	U		0.00158	0.00286	1	04/29/2020 13:48	WG1467916
Di-isopropyl ether	U	J4	0.000468	0.00114	1	04/29/2020 13:48	WG1467916
Ethylbenzene	U		0.000842	0.00286	1	04/29/2020 13:48	WG1467916
Hexachloro-1,3-butadiene	U	J0	0.00685	0.0286	1	04/29/2020 13:48	WG1467916
2-Hexanone	U		0.00384	0.0286	1	04/29/2020 13:48	WG1467916
n-Hexane	U		0.00258	0.00571	1	04/29/2020 13:48	WG1467916
Iodomethane	U		0.00265	0.0143	1	04/29/2020 13:48	WG1467916
Isopropylbenzene	U		0.000485	0.00286	1	04/29/2020 13:48	WG1467916
p-Isopropyltoluene	U		0.00291	0.00571	1	04/29/2020 13:48	WG1467916
2-Butanone (MEK)	U		0.0725	0.114	1	04/29/2020 13:48	WG1467916
Methylene Chloride	U		0.00758	0.0286	1	04/29/2020 13:48	WG1467916
4-Methyl-2-pentanone (MIBK)	U		0.00260	0.0286	1	04/29/2020 13:48	WG1467916

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



Collected date/time: 04/22/20 12:45

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000400	0.00114	1	04/29/2020 13:48	WG1467916
Naphthalene	U		0.00557	0.0143	1	04/29/2020 13:48	WG1467916
n-Propylbenzene	U		0.00109	0.00571	1	04/29/2020 13:48	WG1467916
Styrene	U		0.000262	0.0143	1	04/29/2020 13:48	WG1467916
1,1,1,2-Tetrachloroethane	U		0.00108	0.00286	1	04/29/2020 13:48	WG1467916
1,1,2,2-Tetrachloroethane	U		0.000794	0.00286	1	04/29/2020 13:48	WG1467916
1,1,2-Trichlorotrifluoroethane	U		0.000861	0.00286	1	04/29/2020 13:48	WG1467916
Tetrachloroethene	0.00129	J	0.00102	0.00286	1	04/29/2020 13:48	WG1467916
Toluene	0.00151	J	0.00149	0.00571	1	04/29/2020 13:48	WG1467916
1,2,3-Trichlorobenzene	U		0.00837	0.0143	1	04/29/2020 13:48	WG1467916
1,2,4-Trichlorobenzene	U	JO	0.00503	0.0143	1	04/29/2020 13:48	WG1467916
1,1,1-Trichloroethane	U		0.00105	0.00286	1	04/29/2020 13:48	WG1467916
1,1,2-Trichloroethane	U		0.000682	0.00286	1	04/29/2020 13:48	WG1467916
Trichloroethene	0.00609		0.000667	0.00114	1	04/29/2020 13:48	WG1467916
Trichlorofluoromethane	U		0.000945	0.00286	1	04/29/2020 13:48	WG1467916
1,2,3-Trichloropropane	U		0.00185	0.0143	1	04/29/2020 13:48	WG1467916
1,2,4-Trimethylbenzene	U		0.00180	0.00571	1	04/29/2020 13:48	WG1467916
1,2,3-Trimethylbenzene	U		0.00180	0.00571	1	04/29/2020 13:48	WG1467916
1,3,5-Trimethylbenzene	U		0.00228	0.00571	1	04/29/2020 13:48	WG1467916
Vinyl acetate	U		0.00290	0.0143	1	04/29/2020 13:48	WG1467916
Vinyl chloride	U	J4	0.00133	0.00286	1	04/29/2020 13:48	WG1467916
Xylenes, Total	U		0.00101	0.00743	1	04/29/2020 13:48	WG1467916
(S) Toluene-d8	108			75.0-131		04/29/2020 13:48	WG1467916
(S) 4-Bromofluorobenzene	87.7			67.0-138		04/29/2020 13:48	WG1467916
(S) 1,2-Dichloroethane-d4	91.1			70.0-130		04/29/2020 13:48	WG1467916

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.2		1	05/04/2020 15:33	WG1469318

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0428	0.0587	1	04/29/2020 14:07	WG1467916
Acrylonitrile	U		0.00424	0.0147	1	04/29/2020 14:07	WG1467916
Benzene	U		0.000548	0.00117	1	04/29/2020 14:07	WG1467916
Bromobenzene	U		0.00106	0.0147	1	04/29/2020 14:07	WG1467916
Bromodichloromethane	U		0.000851	0.00293	1	04/29/2020 14:07	WG1467916
Bromochloromethane	U		0.000662	0.00587	1	04/29/2020 14:07	WG1467916
Bromoform	U	J0	0.00137	0.0293	1	04/29/2020 14:07	WG1467916
Bromomethane	U		0.00231	0.0147	1	04/29/2020 14:07	WG1467916
n-Butylbenzene	U		0.00616	0.0147	1	04/29/2020 14:07	WG1467916
sec-Butylbenzene	U		0.00338	0.0147	1	04/29/2020 14:07	WG1467916
tert-Butylbenzene	U		0.00229	0.00587	1	04/29/2020 14:07	WG1467916
Carbon disulfide	U		0.000822	0.0147	1	04/29/2020 14:07	WG1467916
Carbon tetrachloride	U		0.00105	0.00587	1	04/29/2020 14:07	WG1467916
Chlorobenzene	U		0.000246	0.00293	1	04/29/2020 14:07	WG1467916
Chlorodibromomethane	U		0.000718	0.00293	1	04/29/2020 14:07	WG1467916
Chloroethane	U		0.00200	0.00587	1	04/29/2020 14:07	WG1467916
Chloroform	U		0.00121	0.00293	1	04/29/2020 14:07	WG1467916
Chloromethane	U	J4	0.00511	0.0147	1	04/29/2020 14:07	WG1467916
2-Chlorotoluene	U		0.00102	0.00293	1	04/29/2020 14:07	WG1467916
4-Chlorotoluene	U		0.000528	0.00587	1	04/29/2020 14:07	WG1467916
1,2-Dibromo-3-Chloropropane	U		0.00458	0.0293	1	04/29/2020 14:07	WG1467916
1,2-Dibromoethane	U		0.000761	0.00293	1	04/29/2020 14:07	WG1467916
Dibromomethane	U		0.000880	0.00587	1	04/29/2020 14:07	WG1467916
1,2-Dichlorobenzene	U		0.000499	0.00587	1	04/29/2020 14:07	WG1467916
1,3-Dichlorobenzene	U		0.000704	0.00587	1	04/29/2020 14:07	WG1467916
1,4-Dichlorobenzene	U		0.000822	0.00587	1	04/29/2020 14:07	WG1467916
Dichlorodifluoromethane	U		0.00189	0.00293	1	04/29/2020 14:07	WG1467916
1,1-Dichloroethane	U		0.000576	0.00293	1	04/29/2020 14:07	WG1467916
1,2-Dichloroethane	U		0.000762	0.00293	1	04/29/2020 14:07	WG1467916
1,1-Dichloroethene	U		0.000711	0.00293	1	04/29/2020 14:07	WG1467916
cis-1,2-Dichloroethene	0.0379		0.000861	0.00293	1	04/29/2020 14:07	WG1467916
trans-1,2-Dichloroethene	U		0.00122	0.00587	1	04/29/2020 14:07	WG1467916
1,2-Dichloropropane	U		0.00167	0.00587	1	04/29/2020 14:07	WG1467916
1,1-Dichloropropene	U		0.000949	0.00293	1	04/29/2020 14:07	WG1467916
1,3-Dichloropropane	U		0.000588	0.00587	1	04/29/2020 14:07	WG1467916
cis-1,3-Dichloropropene	U		0.000888	0.00293	1	04/29/2020 14:07	WG1467916
trans-1,3-Dichloropropene	U		0.00134	0.00587	1	04/29/2020 14:07	WG1467916
trans-1,4-Dichloro-2-butene	U	J4	0.00218	0.00587	1	04/29/2020 14:07	WG1467916
2,2-Dichloropropane	U		0.00162	0.00293	1	04/29/2020 14:07	WG1467916
Di-isopropyl ether	U	J4	0.000481	0.00117	1	04/29/2020 14:07	WG1467916
Ethylbenzene	U		0.000865	0.00293	1	04/29/2020 14:07	WG1467916
Hexachloro-1,3-butadiene	U	J0	0.00704	0.0293	1	04/29/2020 14:07	WG1467916
2-Hexanone	U		0.00394	0.0293	1	04/29/2020 14:07	WG1467916
n-Hexane	U		0.00265	0.00587	1	04/29/2020 14:07	WG1467916
Iodomethane	U		0.00272	0.0147	1	04/29/2020 14:07	WG1467916
Isopropylbenzene	U		0.000499	0.00293	1	04/29/2020 14:07	WG1467916
p-Isopropyltoluene	U		0.00299	0.00587	1	04/29/2020 14:07	WG1467916
2-Butanone (MEK)	0.0813	J	0.0745	0.117	1	04/29/2020 14:07	WG1467916
Methylene Chloride	U		0.00779	0.0293	1	04/29/2020 14:07	WG1467916
4-Methyl-2-pentanone (MIBK)	U		0.00268	0.0293	1	04/29/2020 14:07	WG1467916

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



Collected date/time: 04/22/20 12:47

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000411	0.00117	1	04/29/2020 14:07	WG1467916
Naphthalene	U		0.00573	0.0147	1	04/29/2020 14:07	WG1467916
n-Propylbenzene	U		0.00111	0.00587	1	04/29/2020 14:07	WG1467916
Styrene	U		0.000269	0.0147	1	04/29/2020 14:07	WG1467916
1,1,1,2-Tetrachloroethane	U		0.00111	0.00293	1	04/29/2020 14:07	WG1467916
1,1,2,2-Tetrachloroethane	U		0.000816	0.00293	1	04/29/2020 14:07	WG1467916
1,1,2-Trichlorotrifluoroethane	U		0.000885	0.00293	1	04/29/2020 14:07	WG1467916
Tetrachloroethene	0.0527		0.00105	0.00293	1	04/29/2020 14:07	WG1467916
Toluene	U		0.00153	0.00587	1	04/29/2020 14:07	WG1467916
1,2,3-Trichlorobenzene	U		0.00860	0.0147	1	04/29/2020 14:07	WG1467916
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00516	0.0147	1	04/29/2020 14:07	WG1467916
1,1,1-Trichloroethane	U		0.00108	0.00293	1	04/29/2020 14:07	WG1467916
1,1,2-Trichloroethane	U		0.000701	0.00293	1	04/29/2020 14:07	WG1467916
Trichloroethene	0.0750		0.000685	0.00117	1	04/29/2020 14:07	WG1467916
Trichlorofluoromethane	U		0.000971	0.00293	1	04/29/2020 14:07	WG1467916
1,2,3-Trichloropropane	U		0.00190	0.0147	1	04/29/2020 14:07	WG1467916
1,2,4-Trimethylbenzene	U		0.00185	0.00587	1	04/29/2020 14:07	WG1467916
1,2,3-Trimethylbenzene	U		0.00185	0.00587	1	04/29/2020 14:07	WG1467916
1,3,5-Trimethylbenzene	U		0.00235	0.00587	1	04/29/2020 14:07	WG1467916
Vinyl acetate	U		0.00298	0.0147	1	04/29/2020 14:07	WG1467916
Vinyl chloride	U	<u>J4</u>	0.00136	0.00293	1	04/29/2020 14:07	WG1467916
Xylenes, Total	U		0.00103	0.00763	1	04/29/2020 14:07	WG1467916
(S) Toluene-d8	106			75.0-131		04/29/2020 14:07	WG1467916
(S) 4-Bromofluorobenzene	91.6			67.0-138		04/29/2020 14:07	WG1467916
(S) 1,2-Dichloroethane-d4	99.9			70.0-130		04/29/2020 14:07	WG1467916

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.7		1	05/04/2020 15:33	WG1469318

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0426	0.0583	1	04/29/2020 14:26	WG1467916
Acrylonitrile	U		0.00421	0.0146	1	04/29/2020 14:26	WG1467916
Benzene	U		0.000545	0.00117	1	04/29/2020 14:26	WG1467916
Bromobenzene	U		0.00105	0.0146	1	04/29/2020 14:26	WG1467916
Bromodichloromethane	U		0.000846	0.00292	1	04/29/2020 14:26	WG1467916
Bromochloromethane	U		0.000658	0.00583	1	04/29/2020 14:26	WG1467916
Bromoform	U	J0	0.00136	0.0292	1	04/29/2020 14:26	WG1467916
Bromomethane	U		0.00230	0.0146	1	04/29/2020 14:26	WG1467916
n-Butylbenzene	U		0.00612	0.0146	1	04/29/2020 14:26	WG1467916
sec-Butylbenzene	U		0.00336	0.0146	1	04/29/2020 14:26	WG1467916
tert-Butylbenzene	U		0.00227	0.00583	1	04/29/2020 14:26	WG1467916
Carbon disulfide	U		0.000817	0.0146	1	04/29/2020 14:26	WG1467916
Carbon tetrachloride	U		0.00105	0.00583	1	04/29/2020 14:26	WG1467916
Chlorobenzene	U		0.000245	0.00292	1	04/29/2020 14:26	WG1467916
Chlorodibromomethane	U		0.000714	0.00292	1	04/29/2020 14:26	WG1467916
Chloroethane	U		0.00198	0.00583	1	04/29/2020 14:26	WG1467916
Chloroform	U		0.00120	0.00292	1	04/29/2020 14:26	WG1467916
Chloromethane	U	J4	0.00507	0.0146	1	04/29/2020 14:26	WG1467916
2-Chlorotoluene	U		0.00101	0.00292	1	04/29/2020 14:26	WG1467916
4-Chlorotoluene	U		0.000525	0.00583	1	04/29/2020 14:26	WG1467916
1,2-Dibromo-3-Chloropropane	U		0.00455	0.0292	1	04/29/2020 14:26	WG1467916
1,2-Dibromoethane	U		0.000756	0.00292	1	04/29/2020 14:26	WG1467916
Dibromomethane	U		0.000875	0.00583	1	04/29/2020 14:26	WG1467916
1,2-Dichlorobenzene	U		0.000496	0.00583	1	04/29/2020 14:26	WG1467916
1,3-Dichlorobenzene	U		0.000700	0.00583	1	04/29/2020 14:26	WG1467916
1,4-Dichlorobenzene	U		0.000817	0.00583	1	04/29/2020 14:26	WG1467916
Dichlorodifluoromethane	U		0.00188	0.00292	1	04/29/2020 14:26	WG1467916
1,1-Dichloroethane	U		0.000573	0.00292	1	04/29/2020 14:26	WG1467916
1,2-Dichloroethane	U		0.000757	0.00292	1	04/29/2020 14:26	WG1467916
1,1-Dichloroethene	U		0.000707	0.00292	1	04/29/2020 14:26	WG1467916
cis-1,2-Dichloroethene	0.0419		0.000856	0.00292	1	04/29/2020 14:26	WG1467916
trans-1,2-Dichloroethene	U		0.00121	0.00583	1	04/29/2020 14:26	WG1467916
1,2-Dichloropropane	U		0.00166	0.00583	1	04/29/2020 14:26	WG1467916
1,1-Dichloropropene	U		0.000944	0.00292	1	04/29/2020 14:26	WG1467916
1,3-Dichloropropane	U		0.000584	0.00583	1	04/29/2020 14:26	WG1467916
cis-1,3-Dichloropropene	U		0.000883	0.00292	1	04/29/2020 14:26	WG1467916
trans-1,3-Dichloropropene	U		0.00133	0.00583	1	04/29/2020 14:26	WG1467916
trans-1,4-Dichloro-2-butene	U	J4	0.00217	0.00583	1	04/29/2020 14:26	WG1467916
2,2-Dichloropropane	U		0.00161	0.00292	1	04/29/2020 14:26	WG1467916
Di-isopropyl ether	U	J4	0.000478	0.00117	1	04/29/2020 14:26	WG1467916
Ethylbenzene	U		0.000860	0.00292	1	04/29/2020 14:26	WG1467916
Hexachloro-1,3-butadiene	U	J0	0.00700	0.0292	1	04/29/2020 14:26	WG1467916
2-Hexanone	U		0.00392	0.0292	1	04/29/2020 14:26	WG1467916
n-Hexane	U		0.00264	0.00583	1	04/29/2020 14:26	WG1467916
Iodomethane	U		0.00271	0.0146	1	04/29/2020 14:26	WG1467916
Isopropylbenzene	U		0.000496	0.00292	1	04/29/2020 14:26	WG1467916
p-Isopropyltoluene	U		0.00297	0.00583	1	04/29/2020 14:26	WG1467916
2-Butanone (MEK)	U		0.0741	0.117	1	04/29/2020 14:26	WG1467916
Methylene Chloride	U		0.00775	0.0292	1	04/29/2020 14:26	WG1467916
4-Methyl-2-pentanone (MIBK)	U		0.00266	0.0292	1	04/29/2020 14:26	WG1467916

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



Collected date/time: 04/22/20 13:10

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000408	0.00117	1	04/29/2020 14:26	WG1467916
Naphthalene	U		0.00569	0.0146	1	04/29/2020 14:26	WG1467916
n-Propylbenzene	U		0.00111	0.00583	1	04/29/2020 14:26	WG1467916
Styrene	U		0.000267	0.0146	1	04/29/2020 14:26	WG1467916
1,1,1,2-Tetrachloroethane	U		0.00111	0.00292	1	04/29/2020 14:26	WG1467916
1,1,2,2-Tetrachloroethane	U		0.000811	0.00292	1	04/29/2020 14:26	WG1467916
1,1,2-Trichlorotrifluoroethane	U		0.000880	0.00292	1	04/29/2020 14:26	WG1467916
Tetrachloroethene	0.148		0.00105	0.00292	1	04/29/2020 14:26	WG1467916
Toluene	U		0.00152	0.00583	1	04/29/2020 14:26	WG1467916
1,2,3-Trichlorobenzene	U		0.00855	0.0146	1	04/29/2020 14:26	WG1467916
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00513	0.0146	1	04/29/2020 14:26	WG1467916
1,1,1-Trichloroethane	U		0.00108	0.00292	1	04/29/2020 14:26	WG1467916
1,1,2-Trichloroethane	U		0.000696	0.00292	1	04/29/2020 14:26	WG1467916
Trichloroethene	0.125		0.000681	0.00117	1	04/29/2020 14:26	WG1467916
Trichlorofluoromethane	U		0.000965	0.00292	1	04/29/2020 14:26	WG1467916
1,2,3-Trichloropropane	U		0.00189	0.0146	1	04/29/2020 14:26	WG1467916
1,2,4-Trimethylbenzene	U		0.00184	0.00583	1	04/29/2020 14:26	WG1467916
1,2,3-Trimethylbenzene	U		0.00184	0.00583	1	04/29/2020 14:26	WG1467916
1,3,5-Trimethylbenzene	U		0.00233	0.00583	1	04/29/2020 14:26	WG1467916
Vinyl acetate	U		0.00296	0.0146	1	04/29/2020 14:26	WG1467916
Vinyl chloride	U	<u>J4</u>	0.00135	0.00292	1	04/29/2020 14:26	WG1467916
Xylenes, Total	U		0.00103	0.00758	1	04/29/2020 14:26	WG1467916
(S) Toluene-d8	109			75.0-131		04/29/2020 14:26	WG1467916
(S) 4-Bromofluorobenzene	87.1			67.0-138		04/29/2020 14:26	WG1467916
(S) 1,2-Dichloroethane-d4	91.8			70.0-130		04/29/2020 14:26	WG1467916

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.4		1	05/04/2020 15:33	WG1469318

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0454	0.0622	1	04/29/2020 14:44	WG1467916
Acrylonitrile	U		0.00449	0.0155	1	04/29/2020 14:44	WG1467916
Benzene	U		0.000580	0.00124	1	04/29/2020 14:44	WG1467916
Bromobenzene	U		0.00112	0.0155	1	04/29/2020 14:44	WG1467916
Bromodichloromethane	U		0.000901	0.00311	1	04/29/2020 14:44	WG1467916
Bromochloromethane	U		0.000701	0.00622	1	04/29/2020 14:44	WG1467916
Bromoform	U	J0	0.00145	0.0311	1	04/29/2020 14:44	WG1467916
Bromomethane	U		0.00245	0.0155	1	04/29/2020 14:44	WG1467916
n-Butylbenzene	U		0.00653	0.0155	1	04/29/2020 14:44	WG1467916
sec-Butylbenzene	U		0.00358	0.0155	1	04/29/2020 14:44	WG1467916
tert-Butylbenzene	U		0.00242	0.00622	1	04/29/2020 14:44	WG1467916
Carbon disulfide	U		0.000870	0.0155	1	04/29/2020 14:44	WG1467916
Carbon tetrachloride	U		0.00112	0.00622	1	04/29/2020 14:44	WG1467916
Chlorobenzene	U		0.000261	0.00311	1	04/29/2020 14:44	WG1467916
Chlorodibromomethane	U		0.000761	0.00311	1	04/29/2020 14:44	WG1467916
Chloroethane	U		0.00211	0.00622	1	04/29/2020 14:44	WG1467916
Chloroform	U		0.00128	0.00311	1	04/29/2020 14:44	WG1467916
Chloromethane	U	J4	0.00541	0.0155	1	04/29/2020 14:44	WG1467916
2-Chlorotoluene	U		0.00108	0.00311	1	04/29/2020 14:44	WG1467916
4-Chlorotoluene	U		0.000559	0.00622	1	04/29/2020 14:44	WG1467916
1,2-Dibromo-3-Chloropropane	U		0.00485	0.0311	1	04/29/2020 14:44	WG1467916
1,2-Dibromoethane	U		0.000805	0.00311	1	04/29/2020 14:44	WG1467916
Dibromomethane	U		0.000932	0.00622	1	04/29/2020 14:44	WG1467916
1,2-Dichlorobenzene	U		0.000528	0.00622	1	04/29/2020 14:44	WG1467916
1,3-Dichlorobenzene	U		0.000746	0.00622	1	04/29/2020 14:44	WG1467916
1,4-Dichlorobenzene	U		0.000870	0.00622	1	04/29/2020 14:44	WG1467916
Dichlorodifluoromethane	U		0.00200	0.00311	1	04/29/2020 14:44	WG1467916
1,1-Dichloroethane	U		0.000610	0.00311	1	04/29/2020 14:44	WG1467916
1,2-Dichloroethane	U		0.000807	0.00311	1	04/29/2020 14:44	WG1467916
1,1-Dichloroethene	U		0.000753	0.00311	1	04/29/2020 14:44	WG1467916
cis-1,2-Dichloroethene	0.0743		0.000912	0.00311	1	04/29/2020 14:44	WG1467916
trans-1,2-Dichloroethene	U		0.00129	0.00622	1	04/29/2020 14:44	WG1467916
1,2-Dichloropropane	U		0.00177	0.00622	1	04/29/2020 14:44	WG1467916
1,1-Dichloropropene	U		0.00101	0.00311	1	04/29/2020 14:44	WG1467916
1,3-Dichloropropane	U		0.000623	0.00622	1	04/29/2020 14:44	WG1467916
cis-1,3-Dichloropropene	U		0.000941	0.00311	1	04/29/2020 14:44	WG1467916
trans-1,3-Dichloropropene	U		0.00142	0.00622	1	04/29/2020 14:44	WG1467916
trans-1,4-Dichloro-2-butene	U	J4	0.00231	0.00622	1	04/29/2020 14:44	WG1467916
2,2-Dichloropropane	U		0.00172	0.00311	1	04/29/2020 14:44	WG1467916
Di-isopropyl ether	U	J4	0.000510	0.00124	1	04/29/2020 14:44	WG1467916
Ethylbenzene	U		0.000916	0.00311	1	04/29/2020 14:44	WG1467916
Hexachloro-1,3-butadiene	U	J0	0.00746	0.0311	1	04/29/2020 14:44	WG1467916
2-Hexanone	U		0.00418	0.0311	1	04/29/2020 14:44	WG1467916
n-Hexane	U		0.00281	0.00622	1	04/29/2020 14:44	WG1467916
Iodomethane	U		0.00288	0.0155	1	04/29/2020 14:44	WG1467916
Isopropylbenzene	U		0.000528	0.00311	1	04/29/2020 14:44	WG1467916
p-Isopropyltoluene	U		0.00317	0.00622	1	04/29/2020 14:44	WG1467916
2-Butanone (MEK)	U		0.0789	0.124	1	04/29/2020 14:44	WG1467916
Methylene Chloride	U		0.00825	0.0311	1	04/29/2020 14:44	WG1467916
4-Methyl-2-pentanone (MIBK)	U		0.00283	0.0311	1	04/29/2020 14:44	WG1467916

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



Collected date/time: 04/22/20 13:15

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000435	0.00124	1	04/29/2020 14:44	WG1467916
Naphthalene	U		0.00607	0.0155	1	04/29/2020 14:44	WG1467916
n-Propylbenzene	U		0.00118	0.00622	1	04/29/2020 14:44	WG1467916
Styrene	U		0.000285	0.0155	1	04/29/2020 14:44	WG1467916
1,1,1,2-Tetrachloroethane	U		0.00118	0.00311	1	04/29/2020 14:44	WG1467916
1,1,2,2-Tetrachloroethane	U		0.000864	0.00311	1	04/29/2020 14:44	WG1467916
1,1,2-Trichlorotrifluoroethane	U		0.000937	0.00311	1	04/29/2020 14:44	WG1467916
Tetrachloroethene	0.0849		0.00111	0.00311	1	04/29/2020 14:44	WG1467916
Toluene	U		0.00162	0.00622	1	04/29/2020 14:44	WG1467916
1,2,3-Trichlorobenzene	U		0.00911	0.0155	1	04/29/2020 14:44	WG1467916
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00547	0.0155	1	04/29/2020 14:44	WG1467916
1,1,1-Trichloroethane	U		0.00115	0.00311	1	04/29/2020 14:44	WG1467916
1,1,2-Trichloroethane	U		0.000742	0.00311	1	04/29/2020 14:44	WG1467916
Trichloroethene	0.116		0.000726	0.00124	1	04/29/2020 14:44	WG1467916
Trichlorofluoromethane	U		0.00103	0.00311	1	04/29/2020 14:44	WG1467916
1,2,3-Trichloropropane	U		0.00201	0.0155	1	04/29/2020 14:44	WG1467916
1,2,4-Trimethylbenzene	U		0.00196	0.00622	1	04/29/2020 14:44	WG1467916
1,2,3-Trimethylbenzene	U		0.00196	0.00622	1	04/29/2020 14:44	WG1467916
1,3,5-Trimethylbenzene	U		0.00249	0.00622	1	04/29/2020 14:44	WG1467916
Vinyl acetate	U		0.00316	0.0155	1	04/29/2020 14:44	WG1467916
Vinyl chloride	U	<u>J4</u>	0.00144	0.00311	1	04/29/2020 14:44	WG1467916
Xylenes, Total	U		0.00109	0.00808	1	04/29/2020 14:44	WG1467916
(S) Toluene-d8	107			75.0-131		04/29/2020 14:44	WG1467916
(S) 4-Bromofluorobenzene	90.7			67.0-138		04/29/2020 14:44	WG1467916
(S) 1,2-Dichloroethane-d4	97.3			70.0-130		04/29/2020 14:44	WG1467916

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.9		1	05/05/2020 06:18	WG1469319

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0425	0.0582	1	04/29/2020 15:03	WG1467916
Acrylonitrile	U		0.00420	0.0145	1	04/29/2020 15:03	WG1467916
Benzene	U		0.000544	0.00116	1	04/29/2020 15:03	WG1467916
Bromobenzene	U		0.00105	0.0145	1	04/29/2020 15:03	WG1467916
Bromodichloromethane	U		0.000844	0.00291	1	04/29/2020 15:03	WG1467916
Bromochloromethane	U		0.000656	0.00582	1	04/29/2020 15:03	WG1467916
Bromoform	U	J0	0.00136	0.0291	1	04/29/2020 15:03	WG1467916
Bromomethane	U		0.00229	0.0145	1	04/29/2020 15:03	WG1467916
n-Butylbenzene	U		0.00611	0.0145	1	04/29/2020 15:03	WG1467916
sec-Butylbenzene	U		0.00335	0.0145	1	04/29/2020 15:03	WG1467916
tert-Butylbenzene	U		0.00227	0.00582	1	04/29/2020 15:03	WG1467916
Carbon disulfide	U		0.000815	0.0145	1	04/29/2020 15:03	WG1467916
Carbon tetrachloride	U		0.00105	0.00582	1	04/29/2020 15:03	WG1467916
Chlorobenzene	U		0.000244	0.00291	1	04/29/2020 15:03	WG1467916
Chlorodibromomethane	U		0.000712	0.00291	1	04/29/2020 15:03	WG1467916
Chloroethane	U		0.00198	0.00582	1	04/29/2020 15:03	WG1467916
Chloroform	U		0.00120	0.00291	1	04/29/2020 15:03	WG1467916
Chloromethane	U	J4	0.00506	0.0145	1	04/29/2020 15:03	WG1467916
2-Chlorotoluene	U		0.00101	0.00291	1	04/29/2020 15:03	WG1467916
4-Chlorotoluene	U		0.000524	0.00582	1	04/29/2020 15:03	WG1467916
1,2-Dibromo-3-Chloropropane	U		0.00454	0.0291	1	04/29/2020 15:03	WG1467916
1,2-Dibromoethane	U		0.000754	0.00291	1	04/29/2020 15:03	WG1467916
Dibromomethane	U		0.000873	0.00582	1	04/29/2020 15:03	WG1467916
1,2-Dichlorobenzene	U		0.000495	0.00582	1	04/29/2020 15:03	WG1467916
1,3-Dichlorobenzene	U		0.000698	0.00582	1	04/29/2020 15:03	WG1467916
1,4-Dichlorobenzene	U		0.000815	0.00582	1	04/29/2020 15:03	WG1467916
Dichlorodifluoromethane	U		0.00187	0.00291	1	04/29/2020 15:03	WG1467916
1,1-Dichloroethane	U		0.000572	0.00291	1	04/29/2020 15:03	WG1467916
1,2-Dichloroethane	U		0.000755	0.00291	1	04/29/2020 15:03	WG1467916
1,1-Dichloroethene	U		0.000705	0.00291	1	04/29/2020 15:03	WG1467916
cis-1,2-Dichloroethene	0.0517		0.000854	0.00291	1	04/29/2020 15:03	WG1467916
trans-1,2-Dichloroethene	U		0.00121	0.00582	1	04/29/2020 15:03	WG1467916
1,2-Dichloropropane	U		0.00165	0.00582	1	04/29/2020 15:03	WG1467916
1,1-Dichloropropene	U		0.000942	0.00291	1	04/29/2020 15:03	WG1467916
1,3-Dichloropropane	U		0.000583	0.00582	1	04/29/2020 15:03	WG1467916
cis-1,3-Dichloropropene	U		0.000881	0.00291	1	04/29/2020 15:03	WG1467916
trans-1,3-Dichloropropene	U		0.00133	0.00582	1	04/29/2020 15:03	WG1467916
trans-1,4-Dichloro-2-butene	U	J4	0.00216	0.00582	1	04/29/2020 15:03	WG1467916
2,2-Dichloropropane	U		0.00161	0.00291	1	04/29/2020 15:03	WG1467916
Di-isopropyl ether	U	J4	0.000477	0.00116	1	04/29/2020 15:03	WG1467916
Ethylbenzene	U		0.000858	0.00291	1	04/29/2020 15:03	WG1467916
Hexachloro-1,3-butadiene	U	J0	0.00698	0.0291	1	04/29/2020 15:03	WG1467916
2-Hexanone	U		0.00391	0.0291	1	04/29/2020 15:03	WG1467916
n-Hexane	U		0.00263	0.00582	1	04/29/2020 15:03	WG1467916
Iodomethane	U		0.00270	0.0145	1	04/29/2020 15:03	WG1467916
Isopropylbenzene	U		0.000495	0.00291	1	04/29/2020 15:03	WG1467916
p-Isopropyltoluene	U		0.00297	0.00582	1	04/29/2020 15:03	WG1467916
2-Butanone (MEK)	U		0.0739	0.116	1	04/29/2020 15:03	WG1467916
Methylene Chloride	U		0.00773	0.0291	1	04/29/2020 15:03	WG1467916
4-Methyl-2-pentanone (MIBK)	U		0.00265	0.0291	1	04/29/2020 15:03	WG1467916

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000407	0.00116	1	04/29/2020 15:03	WG1467916
Naphthalene	U		0.00568	0.0145	1	04/29/2020 15:03	WG1467916
n-Propylbenzene	U		0.00111	0.00582	1	04/29/2020 15:03	WG1467916
Styrene	U		0.000267	0.0145	1	04/29/2020 15:03	WG1467916
1,1,1,2-Tetrachloroethane	U		0.00110	0.00291	1	04/29/2020 15:03	WG1467916
1,1,2,2-Tetrachloroethane	U		0.000809	0.00291	1	04/29/2020 15:03	WG1467916
1,1,2-Trichlorotrifluoroethane	U		0.000878	0.00291	1	04/29/2020 15:03	WG1467916
Tetrachloroethene	U		0.00104	0.00291	1	04/29/2020 15:03	WG1467916
Toluene	U		0.00151	0.00582	1	04/29/2020 15:03	WG1467916
1,2,3-Trichlorobenzene	U		0.00853	0.0145	1	04/29/2020 15:03	WG1467916
1,2,4-Trichlorobenzene	U	JO	0.00512	0.0145	1	04/29/2020 15:03	WG1467916
1,1,1-Trichloroethane	U		0.00107	0.00291	1	04/29/2020 15:03	WG1467916
1,1,2-Trichloroethane	U		0.000695	0.00291	1	04/29/2020 15:03	WG1467916
Trichloroethene	U		0.000680	0.00116	1	04/29/2020 15:03	WG1467916
Trichlorofluoromethane	U		0.000963	0.00291	1	04/29/2020 15:03	WG1467916
1,2,3-Trichloropropane	U		0.00189	0.0145	1	04/29/2020 15:03	WG1467916
1,2,4-Trimethylbenzene	U		0.00184	0.00582	1	04/29/2020 15:03	WG1467916
1,2,3-Trimethylbenzene	U		0.00184	0.00582	1	04/29/2020 15:03	WG1467916
1,3,5-Trimethylbenzene	U		0.00233	0.00582	1	04/29/2020 15:03	WG1467916
Vinyl acetate	U		0.00296	0.0145	1	04/29/2020 15:03	WG1467916
Vinyl chloride	U	J4	0.00135	0.00291	1	04/29/2020 15:03	WG1467916
Xylenes, Total	U		0.00102	0.00757	1	04/29/2020 15:03	WG1467916
(S) Toluene-d8	107			75.0-131		04/29/2020 15:03	WG1467916
(S) 4-Bromofluorobenzene	91.1			67.0-138		04/29/2020 15:03	WG1467916
(S) 1,2-Dichloroethane-d4	94.3			70.0-130		04/29/2020 15:03	WG1467916

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.3		1	05/05/2020 06:18	WG1469319

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0438	0.0600	1	04/29/2020 15:22	WG1467916
Acrylonitrile	U		0.00433	0.0150	1	04/29/2020 15:22	WG1467916
Benzene	U		0.000560	0.00120	1	04/29/2020 15:22	WG1467916
Bromobenzene	U		0.00108	0.0150	1	04/29/2020 15:22	WG1467916
Bromodichloromethane	U		0.000870	0.00300	1	04/29/2020 15:22	WG1467916
Bromochloromethane	U		0.000677	0.00600	1	04/29/2020 15:22	WG1467916
Bromoform	U	J0	0.00140	0.0300	1	04/29/2020 15:22	WG1467916
Bromomethane	U		0.00236	0.0150	1	04/29/2020 15:22	WG1467916
n-Butylbenzene	U		0.00630	0.0150	1	04/29/2020 15:22	WG1467916
sec-Butylbenzene	U		0.00346	0.0150	1	04/29/2020 15:22	WG1467916
tert-Butylbenzene	U		0.00234	0.00600	1	04/29/2020 15:22	WG1467916
Carbon disulfide	U		0.000840	0.0150	1	04/29/2020 15:22	WG1467916
Carbon tetrachloride	U		0.00108	0.00600	1	04/29/2020 15:22	WG1467916
Chlorobenzene	U		0.000252	0.00300	1	04/29/2020 15:22	WG1467916
Chlorodibromomethane	U		0.000734	0.00300	1	04/29/2020 15:22	WG1467916
Chloroethane	U		0.00204	0.00600	1	04/29/2020 15:22	WG1467916
Chloroform	U		0.00124	0.00300	1	04/29/2020 15:22	WG1467916
Chloromethane	U	J4	0.00522	0.0150	1	04/29/2020 15:22	WG1467916
2-Chlorotoluene	U		0.00104	0.00300	1	04/29/2020 15:22	WG1467916
4-Chlorotoluene	U		0.000540	0.00600	1	04/29/2020 15:22	WG1467916
1,2-Dibromo-3-Chloropropane	U		0.00468	0.0300	1	04/29/2020 15:22	WG1467916
1,2-Dibromoethane	U		0.000778	0.00300	1	04/29/2020 15:22	WG1467916
Dibromomethane	U		0.000900	0.00600	1	04/29/2020 15:22	WG1467916
1,2-Dichlorobenzene	U		0.000510	0.00600	1	04/29/2020 15:22	WG1467916
1,3-Dichlorobenzene	U		0.000720	0.00600	1	04/29/2020 15:22	WG1467916
1,4-Dichlorobenzene	U		0.000840	0.00600	1	04/29/2020 15:22	WG1467916
Dichlorodifluoromethane	U		0.00193	0.00300	1	04/29/2020 15:22	WG1467916
1,1-Dichloroethane	U		0.000589	0.00300	1	04/29/2020 15:22	WG1467916
1,2-Dichloroethane	U		0.000779	0.00300	1	04/29/2020 15:22	WG1467916
1,1-Dichloroethene	U		0.000727	0.00300	1	04/29/2020 15:22	WG1467916
cis-1,2-Dichloroethene	0.0673		0.000881	0.00300	1	04/29/2020 15:22	WG1467916
trans-1,2-Dichloroethene	U		0.00125	0.00600	1	04/29/2020 15:22	WG1467916
1,2-Dichloropropane	U		0.00170	0.00600	1	04/29/2020 15:22	WG1467916
1,1-Dichloropropene	U		0.000971	0.00300	1	04/29/2020 15:22	WG1467916
1,3-Dichloropropane	U		0.000601	0.00600	1	04/29/2020 15:22	WG1467916
cis-1,3-Dichloropropene	U		0.000908	0.00300	1	04/29/2020 15:22	WG1467916
trans-1,3-Dichloropropene	U		0.00137	0.00600	1	04/29/2020 15:22	WG1467916
trans-1,4-Dichloro-2-butene	U	J4	0.00223	0.00600	1	04/29/2020 15:22	WG1467916
2,2-Dichloropropane	U		0.00166	0.00300	1	04/29/2020 15:22	WG1467916
Di-isopropyl ether	U	J4	0.000492	0.00120	1	04/29/2020 15:22	WG1467916
Ethylbenzene	U		0.000884	0.00300	1	04/29/2020 15:22	WG1467916
Hexachloro-1,3-butadiene	U	J0	0.00720	0.0300	1	04/29/2020 15:22	WG1467916
2-Hexanone	U		0.00403	0.0300	1	04/29/2020 15:22	WG1467916
n-Hexane	U		0.00271	0.00600	1	04/29/2020 15:22	WG1467916
Iodomethane	U		0.00278	0.0150	1	04/29/2020 15:22	WG1467916
Isopropylbenzene	U		0.000510	0.00300	1	04/29/2020 15:22	WG1467916
p-Isopropyltoluene	U		0.00306	0.00600	1	04/29/2020 15:22	WG1467916
2-Butanone (MEK)	U		0.0762	0.120	1	04/29/2020 15:22	WG1467916
Methylene Chloride	U		0.00797	0.0300	1	04/29/2020 15:22	WG1467916
4-Methyl-2-pentanone (MIBK)	U		0.00274	0.0300	1	04/29/2020 15:22	WG1467916

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000420	0.00120	1	04/29/2020 15:22	WG1467916
Naphthalene	U		0.00586	0.0150	1	04/29/2020 15:22	WG1467916
n-Propylbenzene	U		0.00114	0.00600	1	04/29/2020 15:22	WG1467916
Styrene	U		0.000275	0.0150	1	04/29/2020 15:22	WG1467916
1,1,1,2-Tetrachloroethane	U		0.00114	0.00300	1	04/29/2020 15:22	WG1467916
1,1,2,2-Tetrachloroethane	U		0.000834	0.00300	1	04/29/2020 15:22	WG1467916
1,1,2-Trichlorotrifluoroethane	U		0.000905	0.00300	1	04/29/2020 15:22	WG1467916
Tetrachloroethene	U		0.00108	0.00300	1	04/29/2020 15:22	WG1467916
Toluene	U		0.00156	0.00600	1	04/29/2020 15:22	WG1467916
1,2,3-Trichlorobenzene	U		0.00879	0.0150	1	04/29/2020 15:22	WG1467916
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00528	0.0150	1	04/29/2020 15:22	WG1467916
1,1,1-Trichloroethane	U		0.00111	0.00300	1	04/29/2020 15:22	WG1467916
1,1,2-Trichloroethane	U		0.000716	0.00300	1	04/29/2020 15:22	WG1467916
Trichloroethene	U		0.000701	0.00120	1	04/29/2020 15:22	WG1467916
Trichlorofluoromethane	U		0.000992	0.00300	1	04/29/2020 15:22	WG1467916
1,2,3-Trichloropropane	U		0.00194	0.0150	1	04/29/2020 15:22	WG1467916
1,2,4-Trimethylbenzene	U		0.00190	0.00600	1	04/29/2020 15:22	WG1467916
1,2,3-Trimethylbenzene	U		0.00190	0.00600	1	04/29/2020 15:22	WG1467916
1,3,5-Trimethylbenzene	U		0.00240	0.00600	1	04/29/2020 15:22	WG1467916
Vinyl acetate	U		0.00305	0.0150	1	04/29/2020 15:22	WG1467916
Vinyl chloride	U	<u>J4</u>	0.00139	0.00300	1	04/29/2020 15:22	WG1467916
Xylenes, Total	U		0.00106	0.00780	1	04/29/2020 15:22	WG1467916
(S) Toluene-d8	109			75.0-131		04/29/2020 15:22	WG1467916
(S) 4-Bromofluorobenzene	89.1			67.0-138		04/29/2020 15:22	WG1467916
(S) 1,2-Dichloroethane-d4	94.4			70.0-130		04/29/2020 15:22	WG1467916

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.2		1	05/05/2020 06:18	WG1469319

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0439	0.0601	1	04/29/2020 17:15	WG1467916
Acrylonitrile	U		0.00434	0.0150	1	04/29/2020 17:15	WG1467916
Benzene	U		0.000561	0.00120	1	04/29/2020 17:15	WG1467916
Bromobenzene	U		0.00108	0.0150	1	04/29/2020 17:15	WG1467916
Bromodichloromethane	U		0.000871	0.00300	1	04/29/2020 17:15	WG1467916
Bromochloromethane	U		0.000678	0.00601	1	04/29/2020 17:15	WG1467916
Bromoform	U	J0	0.00141	0.0300	1	04/29/2020 17:15	WG1467916
Bromomethane	U		0.00237	0.0150	1	04/29/2020 17:15	WG1467916
n-Butylbenzene	U		0.00631	0.0150	1	04/29/2020 17:15	WG1467916
sec-Butylbenzene	U		0.00346	0.0150	1	04/29/2020 17:15	WG1467916
tert-Butylbenzene	U		0.00234	0.00601	1	04/29/2020 17:15	WG1467916
Carbon disulfide	U		0.000841	0.0150	1	04/29/2020 17:15	WG1467916
Carbon tetrachloride	U		0.00108	0.00601	1	04/29/2020 17:15	WG1467916
Chlorobenzene	0.000523	J	0.000252	0.00300	1	04/29/2020 17:15	WG1467916
Chlorodibromomethane	U		0.000736	0.00300	1	04/29/2020 17:15	WG1467916
Chloroethane	U		0.00204	0.00601	1	04/29/2020 17:15	WG1467916
Chloroform	U		0.00124	0.00300	1	04/29/2020 17:15	WG1467916
Chloromethane	U	J4	0.00523	0.0150	1	04/29/2020 17:15	WG1467916
2-Chlorotoluene	U		0.00104	0.00300	1	04/29/2020 17:15	WG1467916
4-Chlorotoluene	U		0.000541	0.00601	1	04/29/2020 17:15	WG1467916
1,2-Dibromo-3-Chloropropane	U		0.00469	0.0300	1	04/29/2020 17:15	WG1467916
1,2-Dibromoethane	U		0.000779	0.00300	1	04/29/2020 17:15	WG1467916
Dibromomethane	U		0.000901	0.00601	1	04/29/2020 17:15	WG1467916
1,2-Dichlorobenzene	U		0.000511	0.00601	1	04/29/2020 17:15	WG1467916
1,3-Dichlorobenzene	U		0.000721	0.00601	1	04/29/2020 17:15	WG1467916
1,4-Dichlorobenzene	U		0.000841	0.00601	1	04/29/2020 17:15	WG1467916
Dichlorodifluoromethane	U		0.00193	0.00300	1	04/29/2020 17:15	WG1467916
1,1-Dichloroethane	U		0.000590	0.00300	1	04/29/2020 17:15	WG1467916
1,2-Dichloroethane	U		0.000780	0.00300	1	04/29/2020 17:15	WG1467916
1,1-Dichloroethene	U		0.000728	0.00300	1	04/29/2020 17:15	WG1467916
cis-1,2-Dichloroethene	0.0560		0.000882	0.00300	1	04/29/2020 17:15	WG1467916
trans-1,2-Dichloroethene	U		0.00125	0.00601	1	04/29/2020 17:15	WG1467916
1,2-Dichloropropane	U		0.00171	0.00601	1	04/29/2020 17:15	WG1467916
1,1-Dichloropropene	U		0.000972	0.00300	1	04/29/2020 17:15	WG1467916
1,3-Dichloropropane	U		0.000602	0.00601	1	04/29/2020 17:15	WG1467916
cis-1,3-Dichloropropene	U		0.000910	0.00300	1	04/29/2020 17:15	WG1467916
trans-1,3-Dichloropropene	U		0.00137	0.00601	1	04/29/2020 17:15	WG1467916
trans-1,4-Dichloro-2-butene	U	J4	0.00224	0.00601	1	04/29/2020 17:15	WG1467916
2,2-Dichloropropane	U		0.00166	0.00300	1	04/29/2020 17:15	WG1467916
Di-isopropyl ether	U	J4	0.000493	0.00120	1	04/29/2020 17:15	WG1467916
Ethylbenzene	U		0.000886	0.00300	1	04/29/2020 17:15	WG1467916
Hexachloro-1,3-butadiene	U	J0	0.00721	0.0300	1	04/29/2020 17:15	WG1467916
2-Hexanone	U		0.00404	0.0300	1	04/29/2020 17:15	WG1467916
n-Hexane	U		0.00272	0.00601	1	04/29/2020 17:15	WG1467916
Iodomethane	U		0.00279	0.0150	1	04/29/2020 17:15	WG1467916
Isopropylbenzene	U		0.000511	0.00300	1	04/29/2020 17:15	WG1467916
p-Isopropyltoluene	U		0.00306	0.00601	1	04/29/2020 17:15	WG1467916
2-Butanone (MEK)	U		0.0763	0.120	1	04/29/2020 17:15	WG1467916
Methylene Chloride	U		0.00798	0.0300	1	04/29/2020 17:15	WG1467916
4-Methyl-2-pentanone (MIBK)	U		0.00274	0.0300	1	04/29/2020 17:15	WG1467916

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



Collected date/time: 04/22/20 13:37

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000421	0.00120	1	04/29/2020 17:15	WG1467916
Naphthalene	U		0.00586	0.0150	1	04/29/2020 17:15	WG1467916
n-Propylbenzene	U		0.00114	0.00601	1	04/29/2020 17:15	WG1467916
Styrene	U		0.000275	0.0150	1	04/29/2020 17:15	WG1467916
1,1,1,2-Tetrachloroethane	U		0.00114	0.00300	1	04/29/2020 17:15	WG1467916
1,1,2,2-Tetrachloroethane	U		0.000835	0.00300	1	04/29/2020 17:15	WG1467916
1,1,2-Trichlorotrifluoroethane	U		0.000906	0.00300	1	04/29/2020 17:15	WG1467916
Tetrachloroethene	U		0.00108	0.00300	1	04/29/2020 17:15	WG1467916
Toluene	0.00214	J	0.00156	0.00601	1	04/29/2020 17:15	WG1467916
1,2,3-Trichlorobenzene	U		0.00881	0.0150	1	04/29/2020 17:15	WG1467916
1,2,4-Trichlorobenzene	U	JO	0.00529	0.0150	1	04/29/2020 17:15	WG1467916
1,1,1-Trichloroethane	U		0.00111	0.00300	1	04/29/2020 17:15	WG1467916
1,1,2-Trichloroethane	U		0.000717	0.00300	1	04/29/2020 17:15	WG1467916
Trichloroethene	U		0.000702	0.00120	1	04/29/2020 17:15	WG1467916
Trichlorofluoromethane	U		0.000994	0.00300	1	04/29/2020 17:15	WG1467916
1,2,3-Trichloropropane	U		0.00195	0.0150	1	04/29/2020 17:15	WG1467916
1,2,4-Trimethylbenzene	U		0.00190	0.00601	1	04/29/2020 17:15	WG1467916
1,2,3-Trimethylbenzene	U		0.00190	0.00601	1	04/29/2020 17:15	WG1467916
1,3,5-Trimethylbenzene	U		0.00240	0.00601	1	04/29/2020 17:15	WG1467916
Vinyl acetate	U		0.00305	0.0150	1	04/29/2020 17:15	WG1467916
Vinyl chloride	U	J4	0.00139	0.00300	1	04/29/2020 17:15	WG1467916
Xylenes, Total	U		0.00106	0.00781	1	04/29/2020 17:15	WG1467916
(S) Toluene-d8	104			75.0-131		04/29/2020 17:15	WG1467916
(S) 4-Bromofluorobenzene	91.9			67.0-138		04/29/2020 17:15	WG1467916
(S) 1,2-Dichloroethane-d4	97.3			70.0-130		04/29/2020 17:15	WG1467916

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.9		1	05/05/2020 06:18	WG1469319

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0440	0.0603	1	04/29/2020 17:34	WG1467916
Acrylonitrile	U		0.00435	0.0151	1	04/29/2020 17:34	WG1467916
Benzene	U		0.000563	0.00121	1	04/29/2020 17:34	WG1467916
Bromobenzene	U		0.00109	0.0151	1	04/29/2020 17:34	WG1467916
Bromodichloromethane	U		0.000874	0.00301	1	04/29/2020 17:34	WG1467916
Bromochloromethane	U		0.000680	0.00603	1	04/29/2020 17:34	WG1467916
Bromoform	U	J0	0.00141	0.0301	1	04/29/2020 17:34	WG1467916
Bromomethane	U		0.00238	0.0151	1	04/29/2020 17:34	WG1467916
n-Butylbenzene	U		0.00633	0.0151	1	04/29/2020 17:34	WG1467916
sec-Butylbenzene	U		0.00347	0.0151	1	04/29/2020 17:34	WG1467916
tert-Butylbenzene	U		0.00235	0.00603	1	04/29/2020 17:34	WG1467916
Carbon disulfide	U		0.000844	0.0151	1	04/29/2020 17:34	WG1467916
Carbon tetrachloride	U		0.00108	0.00603	1	04/29/2020 17:34	WG1467916
Chlorobenzene	0.000434	J	0.000253	0.00301	1	04/29/2020 17:34	WG1467916
Chlorodibromomethane	U		0.000738	0.00301	1	04/29/2020 17:34	WG1467916
Chloroethane	U		0.00205	0.00603	1	04/29/2020 17:34	WG1467916
Chloroform	U		0.00124	0.00301	1	04/29/2020 17:34	WG1467916
Chloromethane	U	J4	0.00524	0.0151	1	04/29/2020 17:34	WG1467916
2-Chlorotoluene	U		0.00104	0.00301	1	04/29/2020 17:34	WG1467916
4-Chlorotoluene	U		0.000543	0.00603	1	04/29/2020 17:34	WG1467916
1,2-Dibromo-3-Chloropropane	U		0.00470	0.0301	1	04/29/2020 17:34	WG1467916
1,2-Dibromoethane	U		0.000781	0.00301	1	04/29/2020 17:34	WG1467916
Dibromomethane	U		0.000904	0.00603	1	04/29/2020 17:34	WG1467916
1,2-Dichlorobenzene	U		0.000512	0.00603	1	04/29/2020 17:34	WG1467916
1,3-Dichlorobenzene	U		0.000723	0.00603	1	04/29/2020 17:34	WG1467916
1,4-Dichlorobenzene	U		0.000844	0.00603	1	04/29/2020 17:34	WG1467916
Dichlorodifluoromethane	U		0.00194	0.00301	1	04/29/2020 17:34	WG1467916
1,1-Dichloroethane	U		0.000592	0.00301	1	04/29/2020 17:34	WG1467916
1,2-Dichloroethane	U		0.000783	0.00301	1	04/29/2020 17:34	WG1467916
1,1-Dichloroethene	U		0.000731	0.00301	1	04/29/2020 17:34	WG1467916
cis-1,2-Dichloroethene	0.0382		0.000885	0.00301	1	04/29/2020 17:34	WG1467916
trans-1,2-Dichloroethene	U		0.00125	0.00603	1	04/29/2020 17:34	WG1467916
1,2-Dichloropropane	U		0.00171	0.00603	1	04/29/2020 17:34	WG1467916
1,1-Dichloropropene	U		0.000975	0.00301	1	04/29/2020 17:34	WG1467916
1,3-Dichloropropane	U		0.000604	0.00603	1	04/29/2020 17:34	WG1467916
cis-1,3-Dichloropropene	U		0.000913	0.00301	1	04/29/2020 17:34	WG1467916
trans-1,3-Dichloropropene	U		0.00137	0.00603	1	04/29/2020 17:34	WG1467916
trans-1,4-Dichloro-2-butene	U	J4	0.00224	0.00603	1	04/29/2020 17:34	WG1467916
2,2-Dichloropropane	U		0.00166	0.00301	1	04/29/2020 17:34	WG1467916
Di-isopropyl ether	U	J4	0.000494	0.00121	1	04/29/2020 17:34	WG1467916
Ethylbenzene	U		0.000889	0.00301	1	04/29/2020 17:34	WG1467916
Hexachloro-1,3-butadiene	U	J0	0.00723	0.0301	1	04/29/2020 17:34	WG1467916
2-Hexanone	U		0.00405	0.0301	1	04/29/2020 17:34	WG1467916
n-Hexane	U		0.00272	0.00603	1	04/29/2020 17:34	WG1467916
Iodomethane	U		0.00280	0.0151	1	04/29/2020 17:34	WG1467916
Isopropylbenzene	U		0.000512	0.00301	1	04/29/2020 17:34	WG1467916
p-Isopropyltoluene	U		0.00307	0.00603	1	04/29/2020 17:34	WG1467916
2-Butanone (MEK)	U		0.0766	0.121	1	04/29/2020 17:34	WG1467916
Methylene Chloride	U		0.00801	0.0301	1	04/29/2020 17:34	WG1467916
4-Methyl-2-pentanone (MIBK)	U		0.00275	0.0301	1	04/29/2020 17:34	WG1467916

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



Collected date/time: 04/22/20 13:50

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000422	0.00121	1	04/29/2020 17:34	WG1467916
Naphthalene	U		0.00588	0.0151	1	04/29/2020 17:34	WG1467916
n-Propylbenzene	U		0.00115	0.00603	1	04/29/2020 17:34	WG1467916
Styrene	U		0.000276	0.0151	1	04/29/2020 17:34	WG1467916
1,1,1,2-Tetrachloroethane	U		0.00114	0.00301	1	04/29/2020 17:34	WG1467916
1,1,2,2-Tetrachloroethane	U		0.000838	0.00301	1	04/29/2020 17:34	WG1467916
1,1,2-Trichlorotrifluoroethane	U		0.000909	0.00301	1	04/29/2020 17:34	WG1467916
Tetrachloroethene	U		0.00108	0.00301	1	04/29/2020 17:34	WG1467916
Toluene	0.00210	J	0.00157	0.00603	1	04/29/2020 17:34	WG1467916
1,2,3-Trichlorobenzene	U		0.00884	0.0151	1	04/29/2020 17:34	WG1467916
1,2,4-Trichlorobenzene	U	JO	0.00531	0.0151	1	04/29/2020 17:34	WG1467916
1,1,1-Trichloroethane	U		0.00111	0.00301	1	04/29/2020 17:34	WG1467916
1,1,2-Trichloroethane	U		0.000720	0.00301	1	04/29/2020 17:34	WG1467916
Trichloroethene	U		0.000704	0.00121	1	04/29/2020 17:34	WG1467916
Trichlorofluoromethane	U		0.000997	0.00301	1	04/29/2020 17:34	WG1467916
1,2,3-Trichloropropane	U		0.00195	0.0151	1	04/29/2020 17:34	WG1467916
1,2,4-Trimethylbenzene	U		0.00191	0.00603	1	04/29/2020 17:34	WG1467916
1,2,3-Trimethylbenzene	U		0.00191	0.00603	1	04/29/2020 17:34	WG1467916
1,3,5-Trimethylbenzene	U		0.00241	0.00603	1	04/29/2020 17:34	WG1467916
Vinyl acetate	U		0.00306	0.0151	1	04/29/2020 17:34	WG1467916
Vinyl chloride	U	J4	0.00140	0.00301	1	04/29/2020 17:34	WG1467916
Xylenes, Total	U		0.00106	0.00784	1	04/29/2020 17:34	WG1467916
(S) Toluene-d8	105			75.0-131		04/29/2020 17:34	WG1467916
(S) 4-Bromofluorobenzene	91.5			67.0-138		04/29/2020 17:34	WG1467916
(S) 1,2-Dichloroethane-d4	92.0			70.0-130		04/29/2020 17:34	WG1467916

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.2		1	05/05/2020 06:18	WG1469319

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0439	0.0601	1	04/29/2020 17:53	WG1467916
Acrylonitrile	U		0.00434	0.0150	1	04/29/2020 17:53	WG1467916
Benzene	U		0.000561	0.00120	1	04/29/2020 17:53	WG1467916
Bromobenzene	U		0.00108	0.0150	1	04/29/2020 17:53	WG1467916
Bromodichloromethane	U		0.000871	0.00300	1	04/29/2020 17:53	WG1467916
Bromochloromethane	U		0.000678	0.00601	1	04/29/2020 17:53	WG1467916
Bromoform	U	J0	0.00141	0.0300	1	04/29/2020 17:53	WG1467916
Bromomethane	U		0.00237	0.0150	1	04/29/2020 17:53	WG1467916
n-Butylbenzene	U		0.00631	0.0150	1	04/29/2020 17:53	WG1467916
sec-Butylbenzene	U		0.00346	0.0150	1	04/29/2020 17:53	WG1467916
tert-Butylbenzene	U		0.00234	0.00601	1	04/29/2020 17:53	WG1467916
Carbon disulfide	U		0.000841	0.0150	1	04/29/2020 17:53	WG1467916
Carbon tetrachloride	U		0.00108	0.00601	1	04/29/2020 17:53	WG1467916
Chlorobenzene	0.000517	J	0.000252	0.00300	1	04/29/2020 17:53	WG1467916
Chlorodibromomethane	U		0.000735	0.00300	1	04/29/2020 17:53	WG1467916
Chloroethane	U		0.00204	0.00601	1	04/29/2020 17:53	WG1467916
Chloroform	U		0.00124	0.00300	1	04/29/2020 17:53	WG1467916
Chloromethane	U	J4	0.00523	0.0150	1	04/29/2020 17:53	WG1467916
2-Chlorotoluene	U		0.00104	0.00300	1	04/29/2020 17:53	WG1467916
4-Chlorotoluene	U		0.000541	0.00601	1	04/29/2020 17:53	WG1467916
1,2-Dibromo-3-Chloropropane	U		0.00469	0.0300	1	04/29/2020 17:53	WG1467916
1,2-Dibromoethane	U		0.000779	0.00300	1	04/29/2020 17:53	WG1467916
Dibromomethane	U		0.000901	0.00601	1	04/29/2020 17:53	WG1467916
1,2-Dichlorobenzene	U		0.000511	0.00601	1	04/29/2020 17:53	WG1467916
1,3-Dichlorobenzene	U		0.000721	0.00601	1	04/29/2020 17:53	WG1467916
1,4-Dichlorobenzene	U		0.000841	0.00601	1	04/29/2020 17:53	WG1467916
Dichlorodifluoromethane	U		0.00193	0.00300	1	04/29/2020 17:53	WG1467916
1,1-Dichloroethane	U		0.000590	0.00300	1	04/29/2020 17:53	WG1467916
1,2-Dichloroethane	U		0.000780	0.00300	1	04/29/2020 17:53	WG1467916
1,1-Dichloroethene	U		0.000728	0.00300	1	04/29/2020 17:53	WG1467916
cis-1,2-Dichloroethene	U		0.000882	0.00300	1	04/29/2020 17:53	WG1467916
trans-1,2-Dichloroethene	U		0.00125	0.00601	1	04/29/2020 17:53	WG1467916
1,2-Dichloropropane	0.0341		0.00171	0.00601	1	04/29/2020 17:53	WG1467916
1,1-Dichloropropene	U		0.000972	0.00300	1	04/29/2020 17:53	WG1467916
1,3-Dichloropropane	U		0.000602	0.00601	1	04/29/2020 17:53	WG1467916
cis-1,3-Dichloropropene	U		0.000910	0.00300	1	04/29/2020 17:53	WG1467916
trans-1,3-Dichloropropene	U		0.00137	0.00601	1	04/29/2020 17:53	WG1467916
trans-1,4-Dichloro-2-butene	U	J4	0.00224	0.00601	1	04/29/2020 17:53	WG1467916
2,2-Dichloropropane	U		0.00166	0.00300	1	04/29/2020 17:53	WG1467916
Di-isopropyl ether	U	J4	0.000493	0.00120	1	04/29/2020 17:53	WG1467916
Ethylbenzene	U		0.000886	0.00300	1	04/29/2020 17:53	WG1467916
Hexachloro-1,3-butadiene	U	J0	0.00721	0.0300	1	04/29/2020 17:53	WG1467916
2-Hexanone	U		0.00404	0.0300	1	04/29/2020 17:53	WG1467916
n-Hexane	U		0.00272	0.00601	1	04/29/2020 17:53	WG1467916
Iodomethane	U		0.00279	0.0150	1	04/29/2020 17:53	WG1467916
Isopropylbenzene	U		0.000511	0.00300	1	04/29/2020 17:53	WG1467916
p-Isopropyltoluene	U		0.00306	0.00601	1	04/29/2020 17:53	WG1467916
2-Butanone (MEK)	U		0.0763	0.120	1	04/29/2020 17:53	WG1467916
Methylene Chloride	U		0.00798	0.0300	1	04/29/2020 17:53	WG1467916
4-Methyl-2-pentanone (MIBK)	U		0.00274	0.0300	1	04/29/2020 17:53	WG1467916

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000421	0.00120	1	04/29/2020 17:53	WG1467916
Naphthalene	U		0.00586	0.0150	1	04/29/2020 17:53	WG1467916
n-Propylbenzene	U		0.00114	0.00601	1	04/29/2020 17:53	WG1467916
Styrene	U		0.000275	0.0150	1	04/29/2020 17:53	WG1467916
1,1,1,2-Tetrachloroethane	U		0.00114	0.00300	1	04/29/2020 17:53	WG1467916
1,1,2,2-Tetrachloroethane	U		0.000835	0.00300	1	04/29/2020 17:53	WG1467916
1,1,2-Trichlorotrifluoroethane	U		0.000906	0.00300	1	04/29/2020 17:53	WG1467916
Tetrachloroethene	U		0.00108	0.00300	1	04/29/2020 17:53	WG1467916
Toluene	U		0.00156	0.00601	1	04/29/2020 17:53	WG1467916
1,2,3-Trichlorobenzene	U		0.00881	0.0150	1	04/29/2020 17:53	WG1467916
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00529	0.0150	1	04/29/2020 17:53	WG1467916
1,1,1-Trichloroethane	U		0.00111	0.00300	1	04/29/2020 17:53	WG1467916
1,1,2-Trichloroethane	U		0.000717	0.00300	1	04/29/2020 17:53	WG1467916
Trichloroethene	U		0.000702	0.00120	1	04/29/2020 17:53	WG1467916
Trichlorofluoromethane	U		0.000994	0.00300	1	04/29/2020 17:53	WG1467916
1,2,3-Trichloropropane	U		0.00195	0.0150	1	04/29/2020 17:53	WG1467916
1,2,4-Trimethylbenzene	U		0.00190	0.00601	1	04/29/2020 17:53	WG1467916
1,2,3-Trimethylbenzene	U		0.00190	0.00601	1	04/29/2020 17:53	WG1467916
1,3,5-Trimethylbenzene	U		0.00240	0.00601	1	04/29/2020 17:53	WG1467916
Vinyl acetate	U		0.00305	0.0150	1	04/29/2020 17:53	WG1467916
Vinyl chloride	U	<u>J4</u>	0.00139	0.00300	1	04/29/2020 17:53	WG1467916
Xylenes, Total	U		0.00106	0.00781	1	04/29/2020 17:53	WG1467916
(S) Toluene-d8	106			75.0-131		04/29/2020 17:53	WG1467916
(S) 4-Bromofluorobenzene	91.5			67.0-138		04/29/2020 17:53	WG1467916
(S) 1,2-Dichloroethane-d4	99.8			70.0-130		04/29/2020 17:53	WG1467916

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.0		1	05/05/2020 06:18	WG1469319

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0445	0.0610	1	04/29/2020 18:12	WG1467916
Acrylonitrile	U		0.00440	0.0152	1	04/29/2020 18:12	WG1467916
Benzene	U		0.000570	0.00122	1	04/29/2020 18:12	WG1467916
Bromobenzene	U		0.00110	0.0152	1	04/29/2020 18:12	WG1467916
Bromodichloromethane	U		0.000884	0.00305	1	04/29/2020 18:12	WG1467916
Bromochloromethane	U		0.000688	0.00610	1	04/29/2020 18:12	WG1467916
Bromoform	U	J0	0.00143	0.0305	1	04/29/2020 18:12	WG1467916
Bromomethane	U		0.00240	0.0152	1	04/29/2020 18:12	WG1467916
n-Butylbenzene	0.0119	J	0.00640	0.0152	1	04/29/2020 18:12	WG1467916
sec-Butylbenzene	0.00480	J	0.00351	0.0152	1	04/29/2020 18:12	WG1467916
tert-Butylbenzene	U		0.00238	0.00610	1	04/29/2020 18:12	WG1467916
Carbon disulfide	0.00409	J	0.000854	0.0152	1	04/29/2020 18:12	WG1467916
Carbon tetrachloride	U		0.00110	0.00610	1	04/29/2020 18:12	WG1467916
Chlorobenzene	0.000423	J	0.000256	0.00305	1	04/29/2020 18:12	WG1467916
Chlorodibromomethane	U		0.000746	0.00305	1	04/29/2020 18:12	WG1467916
Chloroethane	U		0.00207	0.00610	1	04/29/2020 18:12	WG1467916
Chloroform	U		0.00126	0.00305	1	04/29/2020 18:12	WG1467916
Chloromethane	U	J4	0.00530	0.0152	1	04/29/2020 18:12	WG1467916
2-Chlorotoluene	U		0.00105	0.00305	1	04/29/2020 18:12	WG1467916
4-Chlorotoluene	0.00474	J	0.000549	0.00610	1	04/29/2020 18:12	WG1467916
1,2-Dibromo-3-Chloropropane	U		0.00476	0.0305	1	04/29/2020 18:12	WG1467916
1,2-Dibromoethane	U		0.000790	0.00305	1	04/29/2020 18:12	WG1467916
Dibromomethane	U		0.000915	0.00610	1	04/29/2020 18:12	WG1467916
1,2-Dichlorobenzene	U		0.000518	0.00610	1	04/29/2020 18:12	WG1467916
1,3-Dichlorobenzene	U		0.000732	0.00610	1	04/29/2020 18:12	WG1467916
1,4-Dichlorobenzene	U		0.000854	0.00610	1	04/29/2020 18:12	WG1467916
Dichlorodifluoromethane	U		0.00196	0.00305	1	04/29/2020 18:12	WG1467916
1,1-Dichloroethane	U		0.000599	0.00305	1	04/29/2020 18:12	WG1467916
1,2-Dichloroethane	U		0.000791	0.00305	1	04/29/2020 18:12	WG1467916
1,1-Dichloroethene	U		0.000739	0.00305	1	04/29/2020 18:12	WG1467916
cis-1,2-Dichloroethene	U		0.000895	0.00305	1	04/29/2020 18:12	WG1467916
trans-1,2-Dichloroethene	U		0.00127	0.00610	1	04/29/2020 18:12	WG1467916
1,2-Dichloropropane	0.0107		0.00173	0.00610	1	04/29/2020 18:12	WG1467916
1,1-Dichloropropene	U		0.000987	0.00305	1	04/29/2020 18:12	WG1467916
1,3-Dichloropropane	U		0.000611	0.00610	1	04/29/2020 18:12	WG1467916
cis-1,3-Dichloropropene	U		0.000923	0.00305	1	04/29/2020 18:12	WG1467916
trans-1,3-Dichloropropene	U		0.00139	0.00610	1	04/29/2020 18:12	WG1467916
trans-1,4-Dichloro-2-butene	U	J4	0.00227	0.00610	1	04/29/2020 18:12	WG1467916
2,2-Dichloropropane	U		0.00168	0.00305	1	04/29/2020 18:12	WG1467916
Di-isopropyl ether	U	J4	0.000500	0.00122	1	04/29/2020 18:12	WG1467916
Ethylbenzene	U		0.000899	0.00305	1	04/29/2020 18:12	WG1467916
Hexachloro-1,3-butadiene	U	J0	0.00732	0.0305	1	04/29/2020 18:12	WG1467916
2-Hexanone	U		0.00410	0.0305	1	04/29/2020 18:12	WG1467916
n-Hexane	0.00294	J	0.00276	0.00610	1	04/29/2020 18:12	WG1467916
Iodomethane	U		0.00283	0.0152	1	04/29/2020 18:12	WG1467916
Isopropylbenzene	0.000665	J	0.000518	0.00305	1	04/29/2020 18:12	WG1467916
p-Isopropyltoluene	0.184		0.00311	0.00610	1	04/29/2020 18:12	WG1467916
2-Butanone (MEK)	U		0.0774	0.122	1	04/29/2020 18:12	WG1467916
Methylene Chloride	U		0.00810	0.0305	1	04/29/2020 18:12	WG1467916
4-Methyl-2-pentanone (MIBK)	U		0.00278	0.0305	1	04/29/2020 18:12	WG1467916

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



Collected date/time: 04/22/20 08:30

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000427	0.00122	1	04/29/2020 18:12	WG1467916
Naphthalene	U		0.00595	0.0152	1	04/29/2020 18:12	WG1467916
n-Propylbenzene	U		0.00116	0.00610	1	04/29/2020 18:12	WG1467916
Styrene	0.00272	J	0.000279	0.0152	1	04/29/2020 18:12	WG1467916
1,1,1,2-Tetrachloroethane	U		0.00116	0.00305	1	04/29/2020 18:12	WG1467916
1,1,2,2-Tetrachloroethane	0.000946	J	0.000848	0.00305	1	04/29/2020 18:12	WG1467916
1,1,2-Trichlorotrifluoroethane	U		0.000919	0.00305	1	04/29/2020 18:12	WG1467916
Tetrachloroethene	U		0.00109	0.00305	1	04/29/2020 18:12	WG1467916
Toluene	0.00239	J	0.00159	0.00610	1	04/29/2020 18:12	WG1467916
1,2,3-Trichlorobenzene	U		0.00894	0.0152	1	04/29/2020 18:12	WG1467916
1,2,4-Trichlorobenzene	U	JO	0.00537	0.0152	1	04/29/2020 18:12	WG1467916
1,1,1-Trichloroethane	U		0.00113	0.00305	1	04/29/2020 18:12	WG1467916
1,1,2-Trichloroethane	U		0.000728	0.00305	1	04/29/2020 18:12	WG1467916
Trichloroethene	U		0.000712	0.00122	1	04/29/2020 18:12	WG1467916
Trichlorofluoromethane	U		0.00101	0.00305	1	04/29/2020 18:12	WG1467916
1,2,3-Trichloropropane	U		0.00198	0.0152	1	04/29/2020 18:12	WG1467916
1,2,4-Trimethylbenzene	U		0.00193	0.00610	1	04/29/2020 18:12	WG1467916
1,2,3-Trimethylbenzene	U		0.00193	0.00610	1	04/29/2020 18:12	WG1467916
1,3,5-Trimethylbenzene	U		0.00244	0.00610	1	04/29/2020 18:12	WG1467916
Vinyl acetate	U		0.00310	0.0152	1	04/29/2020 18:12	WG1467916
Vinyl chloride	U	J4	0.00141	0.00305	1	04/29/2020 18:12	WG1467916
Xylenes, Total	U		0.00107	0.00793	1	04/29/2020 18:12	WG1467916
(S) Toluene-d8	107			75.0-131		04/29/2020 18:12	WG1467916
(S) 4-Bromofluorobenzene	87.9			67.0-138		04/29/2020 18:12	WG1467916
(S) 1,2-Dichloroethane-d4	92.8			70.0-130		04/29/2020 18:12	WG1467916

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.0		1	05/05/2020 06:18	WG1469319

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0435	0.0595	1	04/29/2020 18:31	WG1467916
Acrylonitrile	U		0.00430	0.0149	1	04/29/2020 18:31	WG1467916
Benzene	U		0.000556	0.00119	1	04/29/2020 18:31	WG1467916
Bromobenzene	U		0.00107	0.0149	1	04/29/2020 18:31	WG1467916
Bromodichloromethane	U		0.000863	0.00298	1	04/29/2020 18:31	WG1467916
Bromochloromethane	U		0.000672	0.00595	1	04/29/2020 18:31	WG1467916
Bromoform	U	J0	0.00139	0.0298	1	04/29/2020 18:31	WG1467916
Bromomethane	U		0.00235	0.0149	1	04/29/2020 18:31	WG1467916
n-Butylbenzene	U		0.00625	0.0149	1	04/29/2020 18:31	WG1467916
sec-Butylbenzene	U		0.00343	0.0149	1	04/29/2020 18:31	WG1467916
tert-Butylbenzene	U		0.00232	0.00595	1	04/29/2020 18:31	WG1467916
Carbon disulfide	U		0.000834	0.0149	1	04/29/2020 18:31	WG1467916
Carbon tetrachloride	U		0.00107	0.00595	1	04/29/2020 18:31	WG1467916
Chlorobenzene	0.000512	J	0.000250	0.00298	1	04/29/2020 18:31	WG1467916
Chlorodibromomethane	U		0.000729	0.00298	1	04/29/2020 18:31	WG1467916
Chloroethane	U		0.00202	0.00595	1	04/29/2020 18:31	WG1467916
Chloroform	U		0.00123	0.00298	1	04/29/2020 18:31	WG1467916
Chloromethane	U	J4	0.00518	0.0149	1	04/29/2020 18:31	WG1467916
2-Chlorotoluene	U		0.00103	0.00298	1	04/29/2020 18:31	WG1467916
4-Chlorotoluene	U		0.000536	0.00595	1	04/29/2020 18:31	WG1467916
1,2-Dibromo-3-Chloropropane	U		0.00464	0.0298	1	04/29/2020 18:31	WG1467916
1,2-Dibromoethane	U		0.000772	0.00298	1	04/29/2020 18:31	WG1467916
Dibromomethane	U		0.000893	0.00595	1	04/29/2020 18:31	WG1467916
1,2-Dichlorobenzene	U		0.000506	0.00595	1	04/29/2020 18:31	WG1467916
1,3-Dichlorobenzene	U		0.000714	0.00595	1	04/29/2020 18:31	WG1467916
1,4-Dichlorobenzene	U		0.000834	0.00595	1	04/29/2020 18:31	WG1467916
Dichlorodifluoromethane	U		0.00192	0.00298	1	04/29/2020 18:31	WG1467916
1,1-Dichloroethane	U		0.000585	0.00298	1	04/29/2020 18:31	WG1467916
1,2-Dichloroethane	U		0.000773	0.00298	1	04/29/2020 18:31	WG1467916
1,1-Dichloroethene	U		0.000722	0.00298	1	04/29/2020 18:31	WG1467916
cis-1,2-Dichloroethene	U		0.000874	0.00298	1	04/29/2020 18:31	WG1467916
trans-1,2-Dichloroethene	U		0.00124	0.00595	1	04/29/2020 18:31	WG1467916
1,2-Dichloropropane	0.0260		0.00169	0.00595	1	04/29/2020 18:31	WG1467916
1,1-Dichloropropene	U		0.000963	0.00298	1	04/29/2020 18:31	WG1467916
1,3-Dichloropropane	U		0.000597	0.00595	1	04/29/2020 18:31	WG1467916
cis-1,3-Dichloropropene	U		0.000901	0.00298	1	04/29/2020 18:31	WG1467916
trans-1,3-Dichloropropene	U		0.00136	0.00595	1	04/29/2020 18:31	WG1467916
trans-1,4-Dichloro-2-butene	U	J4	0.00221	0.00595	1	04/29/2020 18:31	WG1467916
2,2-Dichloropropane	U		0.00164	0.00298	1	04/29/2020 18:31	WG1467916
Di-isopropyl ether	U	J4	0.000488	0.00119	1	04/29/2020 18:31	WG1467916
Ethylbenzene	U		0.000878	0.00298	1	04/29/2020 18:31	WG1467916
Hexachloro-1,3-butadiene	U	J0	0.00714	0.0298	1	04/29/2020 18:31	WG1467916
2-Hexanone	U		0.00400	0.0298	1	04/29/2020 18:31	WG1467916
n-Hexane	U		0.00269	0.00595	1	04/29/2020 18:31	WG1467916
Iodomethane	U		0.00276	0.0149	1	04/29/2020 18:31	WG1467916
Isopropylbenzene	U		0.000506	0.00298	1	04/29/2020 18:31	WG1467916
p-Isopropyltoluene	U		0.00304	0.00595	1	04/29/2020 18:31	WG1467916
2-Butanone (MEK)	U		0.0756	0.119	1	04/29/2020 18:31	WG1467916
Methylene Chloride	U		0.00791	0.0298	1	04/29/2020 18:31	WG1467916
4-Methyl-2-pentanone (MIBK)	U		0.00272	0.0298	1	04/29/2020 18:31	WG1467916

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



Collected date/time: 04/22/20 15:30

L1212082

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000417	0.00119	1	04/29/2020 18:31	WG1467916
Naphthalene	U		0.00581	0.0149	1	04/29/2020 18:31	WG1467916
n-Propylbenzene	U		0.00113	0.00595	1	04/29/2020 18:31	WG1467916
Styrene	U		0.000273	0.0149	1	04/29/2020 18:31	WG1467916
1,1,1,2-Tetrachloroethane	U		0.00113	0.00298	1	04/29/2020 18:31	WG1467916
1,1,2,2-Tetrachloroethane	U		0.000828	0.00298	1	04/29/2020 18:31	WG1467916
1,1,2-Trichlorotrifluoroethane	U		0.000898	0.00298	1	04/29/2020 18:31	WG1467916
Tetrachloroethene	U		0.00107	0.00298	1	04/29/2020 18:31	WG1467916
Toluene	U		0.00155	0.00595	1	04/29/2020 18:31	WG1467916
1,2,3-Trichlorobenzene	U		0.00873	0.0149	1	04/29/2020 18:31	WG1467916
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00524	0.0149	1	04/29/2020 18:31	WG1467916
1,1,1-Trichloroethane	U		0.00110	0.00298	1	04/29/2020 18:31	WG1467916
1,1,2-Trichloroethane	U		0.000711	0.00298	1	04/29/2020 18:31	WG1467916
Trichloroethene	U		0.000695	0.00119	1	04/29/2020 18:31	WG1467916
Trichlorofluoromethane	U		0.000985	0.00298	1	04/29/2020 18:31	WG1467916
1,2,3-Trichloropropane	U		0.00193	0.0149	1	04/29/2020 18:31	WG1467916
1,2,4-Trimethylbenzene	U		0.00188	0.00595	1	04/29/2020 18:31	WG1467916
1,2,3-Trimethylbenzene	U		0.00188	0.00595	1	04/29/2020 18:31	WG1467916
1,3,5-Trimethylbenzene	U		0.00238	0.00595	1	04/29/2020 18:31	WG1467916
Vinyl acetate	U		0.00302	0.0149	1	04/29/2020 18:31	WG1467916
Vinyl chloride	U	<u>J4</u>	0.00138	0.00298	1	04/29/2020 18:31	WG1467916
Xylenes, Total	U		0.00105	0.00774	1	04/29/2020 18:31	WG1467916
(S) Toluene-d8	107			75.0-131		04/29/2020 18:31	WG1467916
(S) 4-Bromofluorobenzene	90.3			67.0-138		04/29/2020 18:31	WG1467916
(S) 1,2-Dichloroethane-d4	93.1			70.0-130		04/29/2020 18:31	WG1467916

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		11.3	25.0	1	04/26/2020 20:13	WG1466619
Acrylonitrile	U		0.671	5.00	1	04/26/2020 20:13	WG1466619
Benzene	U		0.0941	0.500	1	04/26/2020 20:13	WG1466619
Bromobenzene	U		0.118	0.500	1	04/26/2020 20:13	WG1466619
Bromodichloromethane	U		0.136	0.500	1	04/26/2020 20:13	WG1466619
Bromochloromethane	U		0.128	0.500	1	04/26/2020 20:13	WG1466619
Bromoform	U		0.129	0.500	1	04/26/2020 20:13	WG1466619
Bromomethane	U		0.605	2.50	1	04/26/2020 20:13	WG1466619
n-Butylbenzene	U		0.157	0.500	1	04/26/2020 20:13	WG1466619
sec-Butylbenzene	U		0.125	0.500	1	04/26/2020 20:13	WG1466619
tert-Butylbenzene	U		0.127	0.500	1	04/26/2020 20:13	WG1466619
Carbon disulfide	U		0.0962	0.500	1	04/26/2020 20:13	WG1466619
Carbon tetrachloride	U		0.128	0.500	1	04/26/2020 20:13	WG1466619
Chlorobenzene	U		0.117	0.500	1	04/26/2020 20:13	WG1466619
Chlorodibromomethane	U		0.140	0.500	1	04/26/2020 20:13	WG1466619
Chloroethane	U		0.192	2.50	1	04/26/2020 20:13	WG1466619
Chloroform	U		0.111	0.500	1	04/26/2020 20:13	WG1466619
Chloromethane	U		0.960	1.25	1	04/26/2020 20:13	WG1466619
2-Chlorotoluene	U		0.106	0.500	1	04/26/2020 20:13	WG1466619
4-Chlorotoluene	U		0.114	0.500	1	04/26/2020 20:13	WG1466619
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	04/26/2020 20:13	WG1466619
1,2-Dibromoethane	U		0.126	0.500	1	04/26/2020 20:13	WG1466619
Dibromomethane	U		0.122	0.500	1	04/26/2020 20:13	WG1466619
1,2-Dichlorobenzene	U		0.107	0.500	1	04/26/2020 20:13	WG1466619
1,3-Dichlorobenzene	U		0.299	0.500	1	04/26/2020 20:13	WG1466619
1,4-Dichlorobenzene	U		0.120	0.500	1	04/26/2020 20:13	WG1466619
Dichlorodifluoromethane	U		0.374	2.50	1	04/26/2020 20:13	WG1466619
1,1-Dichloroethane	U		0.100	0.500	1	04/26/2020 20:13	WG1466619
1,2-Dichloroethane	U		0.0819	0.500	1	04/26/2020 20:13	WG1466619
1,1-Dichloroethene	U		0.188	0.500	1	04/26/2020 20:13	WG1466619
cis-1,2-Dichloroethene	U		0.126	0.500	1	04/26/2020 20:13	WG1466619
trans-1,2-Dichloroethene	U		0.149	0.500	1	04/26/2020 20:13	WG1466619
1,2-Dichloropropane	U		0.149	0.500	1	04/26/2020 20:13	WG1466619
1,1-Dichloropropene	U		0.142	0.500	1	04/26/2020 20:13	WG1466619
1,3-Dichloropropane	U		0.109	1.00	1	04/26/2020 20:13	WG1466619
cis-1,3-Dichloropropene	U		0.111	0.500	1	04/26/2020 20:13	WG1466619
trans-1,3-Dichloropropene	U		0.118	0.500	1	04/26/2020 20:13	WG1466619
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	04/26/2020 20:13	WG1466619
2,2-Dichloropropane	U		0.161	0.500	1	04/26/2020 20:13	WG1466619
Di-isopropyl ether	U		0.105	0.500	1	04/26/2020 20:13	WG1466619
Ethylbenzene	U		0.137	0.500	1	04/26/2020 20:13	WG1466619
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.337	1.00	1	04/26/2020 20:13	WG1466619
2-Hexanone	U		0.787	5.00	1	04/26/2020 20:13	WG1466619
n-Hexane	U		0.749	5.00	1	04/26/2020 20:13	WG1466619
Iodomethane	U		6.00	10.0	1	04/26/2020 20:13	WG1466619
Isopropylbenzene	U		0.105	0.500	1	04/26/2020 20:13	WG1466619
p-Isopropyltoluene	U		0.120	0.500	1	04/26/2020 20:13	WG1466619
2-Butanone (MEK)	U		1.19	5.00	1	04/26/2020 20:13	WG1466619
Methylene Chloride	U		0.430	2.50	1	04/26/2020 20:13	WG1466619
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	04/26/2020 20:13	WG1466619
Methyl tert-butyl ether	U		0.101	0.500	1	04/26/2020 20:13	WG1466619
Naphthalene	U		0.174	2.50	1	05/02/2020 11:53	WG1469464
n-Propylbenzene	U		0.0993	0.500	1	04/26/2020 20:13	WG1466619
Styrene	U		0.118	0.500	1	04/26/2020 20:13	WG1466619
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	04/26/2020 20:13	WG1466619
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	04/26/2020 20:13	WG1466619

- 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-Trichlorotrifluoroethane	U		0.180	0.500	1	04/26/2020 20:13	WG1466619
Tetrachloroethene	U		0.300	0.500	1	04/26/2020 20:13	WG1466619
Toluene	U		0.278	0.500	1	04/26/2020 20:13	WG1466619
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	04/26/2020 20:13	WG1466619
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.481	1.00	1	04/26/2020 20:13	WG1466619
1,1,1-Trichloroethane	U		0.149	0.500	1	04/26/2020 20:13	WG1466619
1,1,2-Trichloroethane	U		0.158	0.500	1	04/26/2020 20:13	WG1466619
Trichloroethene	U		0.190	0.500	1	04/26/2020 20:13	WG1466619
Trichlorofluoromethane	U		0.160	2.50	1	04/26/2020 20:13	WG1466619
1,2,3-Trichloropropane	U		0.237	2.50	1	04/26/2020 20:13	WG1466619
1,2,4-Trimethylbenzene	U		0.322	0.500	1	04/26/2020 20:13	WG1466619
1,2,3-Trimethylbenzene	U		0.104	0.500	1	04/26/2020 20:13	WG1466619
1,3,5-Trimethylbenzene	U		0.104	0.500	1	04/26/2020 20:13	WG1466619
Vinyl acetate	U		0.692	5.00	1	04/26/2020 20:13	WG1466619
Vinyl chloride	U		0.234	0.500	1	04/26/2020 20:13	WG1466619
Xylenes, Total	U		0.174	1.50	1	04/26/2020 20:13	WG1466619
(S) Toluene-d8	109			80.0-120		04/26/2020 20:13	WG1466619
(S) Toluene-d8	106			80.0-120		05/02/2020 11:53	WG1469464
(S) 4-Bromofluorobenzene	107			77.0-126		04/26/2020 20:13	WG1466619
(S) 4-Bromofluorobenzene	106			77.0-126		05/02/2020 11:53	WG1469464
(S) 1,2-Dichloroethane-d4	109			70.0-130		04/26/2020 20:13	WG1466619
(S) 1,2-Dichloroethane-d4	116			70.0-130		05/02/2020 11:53	WG1469464

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc



Method Blank (MB)

(MB) R3524635-1 05/02/20 22:02

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

1 Cp

2 Tc

3 Ss

L1212050-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1212050-01 05/02/20 22:02 • (DUP) R3524635-3 05/02/20 22:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	98.2	98.7	1	0.465		10

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3524635-2 05/02/20 22:02

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.1	100	85.0-115	

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3524693-1 05/04/20 15:42

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

L1212082-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1212082-09 05/04/20 15:42 • (DUP) R3524693-3 05/04/20 15:42

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	95.5	94.3	1	1.27		10

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3524693-2 05/04/20 15:42

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	



Method Blank (MB)

(MB) R3524688-1 05/04/20 15:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1212082-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1212082-24 05/04/20 15:33 • (DUP) R3524688-3 05/04/20 15:33

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	87.5	88.1	1	0.686		10

Laboratory Control Sample (LCS)

(LCS) R3524688-2 05/04/20 15:33

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	



Method Blank (MB)

(MB) R3525008-1 05/05/20 06:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

1 Cp

2 Tc

3 Ss

L1212151-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1212151-02 05/05/20 06:18 • (DUP) R3525008-3 05/05/20 06:18

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	70.8	70.3	1	0.731		10

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3525008-2 05/05/20 06:18

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3523946-2 04/26/20 16:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromochloromethane	U		0.128	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
trans-1,4-Dichloro-2-butene	U		0.467	5.00
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3523946-2 04/26/20 16:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	0.500
Hexachloro-1,3-butadiene	U		0.337	1.00
2-Hexanone	U		0.787	5.00
n-Hexane	U		0.749	5.00
Iodomethane	U		6.00	10.0
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,2,3-Trichlorobenzene	0.282	U	0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	0.500
1,2,3-Trimethylbenzene	U		0.104	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl acetate	U		0.692	5.00
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	108			80.0-120
(S) 4-Bromofluorobenzene	106			77.0-126
(S) 1,2-Dichloroethane-d4	108			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) R3523946-1 04/26/20 15:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	25.0	33.5	134	19.0-160	
Acrylonitrile	25.0	28.1	112	55.0-149	
Benzene	5.00	4.84	96.8	70.0-123	
Bromobenzene	5.00	4.59	91.8	73.0-121	
Bromodichloromethane	5.00	5.08	102	75.0-120	
Bromochloromethane	5.00	5.20	104	76.0-122	
Bromoform	5.00	4.82	96.4	68.0-132	
Bromomethane	5.00	5.49	110	10.0-160	
n-Butylbenzene	5.00	5.52	110	73.0-125	
sec-Butylbenzene	5.00	4.51	90.2	75.0-125	
tert-Butylbenzene	5.00	4.44	88.8	76.0-124	
Carbon disulfide	5.00	5.27	105	61.0-128	
Carbon tetrachloride	5.00	5.31	106	68.0-126	
Chlorobenzene	5.00	4.72	94.4	80.0-121	
Chlorodibromomethane	5.00	4.79	95.8	77.0-125	
Chloroethane	5.00	5.36	107	47.0-150	
Chloroform	5.00	4.55	91.0	73.0-120	
Chloromethane	5.00	5.14	103	41.0-142	
2-Chlorotoluene	5.00	4.53	90.6	76.0-123	
4-Chlorotoluene	5.00	4.70	94.0	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.88	97.6	58.0-134	
1,2-Dibromoethane	5.00	5.36	107	80.0-122	
Dibromomethane	5.00	5.13	103	80.0-120	
1,2-Dichlorobenzene	5.00	5.29	106	79.0-121	
1,3-Dichlorobenzene	5.00	4.85	97.0	79.0-120	
1,4-Dichlorobenzene	5.00	4.80	96.0	79.0-120	
Dichlorodifluoromethane	5.00	6.47	129	51.0-149	
1,1-Dichloroethane	5.00	5.23	105	70.0-126	
1,2-Dichloroethane	5.00	4.68	93.6	70.0-128	
1,1-Dichloroethene	5.00	5.42	108	71.0-124	
cis-1,2-Dichloroethene	5.00	4.90	98.0	73.0-120	
trans-1,2-Dichloroethene	5.00	5.12	102	73.0-120	
1,2-Dichloropropane	5.00	4.79	95.8	77.0-125	
1,1-Dichloropropene	5.00	5.13	103	74.0-126	
1,3-Dichloropropane	5.00	5.04	101	80.0-120	
cis-1,3-Dichloropropene	5.00	4.90	98.0	80.0-123	
trans-1,3-Dichloropropene	5.00	4.98	99.6	78.0-124	
trans-1,4-Dichloro-2-butene	5.00	4.40	88.0	33.0-144	
2,2-Dichloropropane	5.00	5.34	107	58.0-130	
Di-isopropyl ether	5.00	4.75	95.0	58.0-138	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3523946-1 04/26/20 15:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	5.00	4.53	90.6	79.0-123	
Hexachloro-1,3-butadiene	5.00	5.04	101	54.0-138	
2-Hexanone	25.0	23.7	94.8	67.0-149	
n-Hexane	5.00	5.46	109	57.0-133	
Iodomethane	25.0	23.9	95.6	33.0-147	
Isopropylbenzene	5.00	5.58	112	76.0-127	
p-Isopropyltoluene	5.00	4.47	89.4	76.0-125	
2-Butanone (MEK)	25.0	25.2	101	44.0-160	
Methylene Chloride	5.00	5.07	101	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	24.0	96.0	68.0-142	
Methyl tert-butyl ether	5.00	5.18	104	68.0-125	
n-Propylbenzene	5.00	4.52	90.4	77.0-124	
Styrene	5.00	4.82	96.4	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	4.76	95.2	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	4.96	99.2	65.0-130	
1,1,2-Trichlorotrifluoroethane	5.00	5.84	117	69.0-132	
Tetrachloroethene	5.00	4.77	95.4	72.0-132	
Toluene	5.00	4.85	97.0	79.0-120	
1,2,3-Trichlorobenzene	5.00	4.62	92.4	50.0-138	
1,2,4-Trichlorobenzene	5.00	4.53	90.6	57.0-137	
1,1,1-Trichloroethane	5.00	5.03	101	73.0-124	
1,1,2-Trichloroethane	5.00	5.12	102	80.0-120	
Trichloroethene	5.00	4.68	93.6	78.0-124	
Trichlorofluoromethane	5.00	5.71	114	59.0-147	
1,2,3-Trichloropropane	5.00	5.12	102	73.0-130	
1,2,4-Trimethylbenzene	5.00	4.47	89.4	76.0-121	
1,2,3-Trimethylbenzene	5.00	4.88	97.6	77.0-120	
1,3,5-Trimethylbenzene	5.00	4.46	89.2	76.0-122	
Vinyl acetate	25.0	24.1	96.4	11.0-160	
Vinyl chloride	5.00	6.01	120	67.0-131	
Xylenes, Total	15.0	13.8	92.0	79.0-123	
(S) Toluene-d8			106	80.0-120	
(S) 4-Bromofluorobenzene			102	77.0-126	
(S) 1,2-Dichloroethane-d4			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) R3524079-2 05/02/20 10:13

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Naphthalene	U		0.174	2.50
(S) Toluene-d8	106			80.0-120
(S) 4-Bromofluorobenzene	102			77.0-126
(S) 1,2-Dichloroethane-d4	111			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3524079-1 05/02/20 09:35

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	5.00	3.93	78.6	54.0-135	
(S) Toluene-d8			105	80.0-120	
(S) 4-Bromofluorobenzene			105	77.0-126	
(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



Method Blank (MB)

(MB) R3523691-2 04/28/20 15:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromochloromethane	U		0.000564	0.00500
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon disulfide	U		0.000700	0.0125
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
trans-1,4-Dichloro-2-butene	U		0.00186	0.00500
Dichlorodifluoromethane	U		0.00161	0.00250
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3523691-2 04/28/20 15:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
n-Hexane	U		0.00226	0.00500
2-Hexanone	U		0.00336	0.0250
Iodomethane	U		0.00232	0.0125
Isopropylbenzene	U		0.000425	0.00250
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl acetate	U		0.00254	0.0125
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	115			75.0-131
(S) 4-Bromofluorobenzene	103			67.0-138
(S) 1,2-Dichloroethane-d4	87.7			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) R3523691-1 04/28/20 14:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	0.625	0.934	149	10.0-160	
Acrylonitrile	0.625	0.949	152	45.0-153	
Benzene	0.125	0.103	82.4	70.0-123	
Bromobenzene	0.125	0.133	106	73.0-121	
Bromodichloromethane	0.125	0.104	83.2	73.0-121	
Bromochloromethane	0.125	0.150	120	77.0-128	
Bromoform	0.125	0.148	118	64.0-132	
Bromomethane	0.125	0.126	101	56.0-147	
n-Butylbenzene	0.125	0.118	94.4	68.0-135	
sec-Butylbenzene	0.125	0.120	96.0	74.0-130	
tert-Butylbenzene	0.125	0.113	90.4	75.0-127	
Carbon disulfide	0.125	0.0989	79.1	56.0-133	
Carbon tetrachloride	0.125	0.102	81.6	66.0-128	
Chlorobenzene	0.125	0.147	118	76.0-128	
Chlorodibromomethane	0.125	0.136	109	74.0-127	
Chloroethane	0.125	0.127	102	61.0-134	
Chloroform	0.125	0.0928	74.2	72.0-123	
Chloromethane	0.125	0.124	99.2	51.0-138	
2-Chlorotoluene	0.125	0.136	109	75.0-124	
4-Chlorotoluene	0.125	0.124	99.2	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.116	92.8	59.0-130	
1,2-Dibromoethane	0.125	0.135	108	74.0-128	
Dibromomethane	0.125	0.139	111	75.0-122	
1,2-Dichlorobenzene	0.125	0.131	105	76.0-124	
1,3-Dichlorobenzene	0.125	0.127	102	76.0-125	
1,4-Dichlorobenzene	0.125	0.110	88.0	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.127	102	45.0-143	
Dichlorodifluoromethane	0.125	0.182	146	43.0-156	
1,1-Dichloroethane	0.125	0.114	91.2	70.0-127	
1,2-Dichloroethane	0.125	0.0926	74.1	65.0-131	
1,1-Dichloroethene	0.125	0.122	97.6	65.0-131	
cis-1,2-Dichloroethene	0.125	0.109	87.2	73.0-125	
trans-1,2-Dichloroethene	0.125	0.121	96.8	71.0-125	
1,2-Dichloropropane	0.125	0.175	140	74.0-125	J4
1,1-Dichloropropene	0.125	0.111	88.8	73.0-125	
1,3-Dichloropropane	0.125	0.120	96.0	80.0-125	
cis-1,3-Dichloropropene	0.125	0.140	112	76.0-127	
trans-1,3-Dichloropropene	0.125	0.125	100	73.0-127	
2,2-Dichloropropane	0.125	0.101	80.8	59.0-135	
Di-isopropyl ether	0.125	0.145	116	60.0-136	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3523691-1 04/28/20 14:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.125	0.139	111	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.103	82.4	57.0-150	
2-Hexanone	0.625	1.06	170	54.0-147	J4
n-Hexane	0.125	0.120	96.0	55.0-137	
Iodomethane	0.625	0.590	94.4	74.0-134	
Isopropylbenzene	0.125	0.139	111	72.0-127	
p-Isopropyltoluene	0.125	0.124	99.2	72.0-133	
2-Butanone (MEK)	0.625	0.765	122	30.0-160	
Methylene Chloride	0.125	0.110	88.0	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.906	145	56.0-143	J4
Methyl tert-butyl ether	0.125	0.111	88.8	66.0-132	
Naphthalene	0.125	0.0897	71.8	59.0-130	
n-Propylbenzene	0.125	0.120	96.0	74.0-126	
Styrene	0.125	0.162	130	72.0-127	J4
1,1,1,2-Tetrachloroethane	0.125	0.142	114	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.125	100	68.0-128	
Tetrachloroethene	0.125	0.136	109	70.0-136	
Toluene	0.125	0.114	91.2	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.136	109	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.102	81.6	59.0-139	JO
1,2,4-Trichlorobenzene	0.125	0.102	81.6	62.0-137	
1,1,1-Trichloroethane	0.125	0.114	91.2	69.0-126	
1,1,2-Trichloroethane	0.125	0.116	92.8	78.0-123	
Trichloroethene	0.125	0.140	112	76.0-126	
Trichlorofluoromethane	0.125	0.108	86.4	61.0-142	
1,2,3-Trichloropropane	0.125	0.121	96.8	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.106	84.8	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.107	85.6	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.103	82.4	73.0-127	
Vinyl acetate	0.625	1.04	166	43.0-159	J4
Vinyl chloride	0.125	0.176	141	63.0-134	J4
Xylenes, Total	0.375	0.429	114	72.0-127	
(S) Toluene-d8			109	75.0-131	
(S) 4-Bromofluorobenzene			106	67.0-138	
(S) 1,2-Dichloroethane-d4			90.4	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) R3523249-2 04/29/20 09:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromochloromethane	U		0.000564	0.00500
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon disulfide	U		0.000700	0.0125
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
trans-1,4-Dichloro-2-butene	U		0.00186	0.00500
Dichlorodifluoromethane	U		0.00161	0.00250
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3523249-2 04/29/20 09:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
n-Hexane	U		0.00226	0.00500
2-Hexanone	U		0.00336	0.0250
Iodomethane	U		0.00232	0.0125
Isopropylbenzene	U		0.000425	0.00250
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl acetate	U		0.00254	0.0125
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	110			75.0-131
(S) 4-Bromofluorobenzene	84.9			67.0-138
(S) 1,2-Dichloroethane-d4	89.4			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) R3523249-1 04/29/20 08:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	0.625	0.545	87.2	10.0-160	
Acrylonitrile	0.625	0.715	114	45.0-153	
Benzene	0.125	0.119	95.2	70.0-123	
Bromobenzene	0.125	0.136	109	73.0-121	
Bromodichloromethane	0.125	0.121	96.8	73.0-121	
Bromochloromethane	0.125	0.104	83.2	77.0-128	
Bromoform	0.125	0.106	84.8	64.0-132	
Bromomethane	0.125	0.108	86.4	56.0-147	
n-Butylbenzene	0.125	0.104	83.2	68.0-135	
sec-Butylbenzene	0.125	0.126	101	74.0-130	
tert-Butylbenzene	0.125	0.126	101	75.0-127	
Carbon disulfide	0.125	0.102	81.6	56.0-133	
Carbon tetrachloride	0.125	0.111	88.8	66.0-128	
Chlorobenzene	0.125	0.116	92.8	76.0-128	
Chlorodibromomethane	0.125	0.104	83.2	74.0-127	
Chloroethane	0.125	0.129	103	61.0-134	
Chloroform	0.125	0.126	101	72.0-123	
Chloromethane	0.125	0.188	150	51.0-138	J4
2-Chlorotoluene	0.125	0.123	98.4	75.0-124	
4-Chlorotoluene	0.125	0.137	110	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.109	87.2	59.0-130	
1,2-Dibromoethane	0.125	0.115	92.0	74.0-128	
Dibromomethane	0.125	0.113	90.4	75.0-122	
1,2-Dichlorobenzene	0.125	0.114	91.2	76.0-124	
1,3-Dichlorobenzene	0.125	0.125	100	76.0-125	
1,4-Dichlorobenzene	0.125	0.120	96.0	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.182	146	45.0-143	J4
Dichlorodifluoromethane	0.125	0.168	134	43.0-156	
1,1-Dichloroethane	0.125	0.137	110	70.0-127	
1,2-Dichloroethane	0.125	0.147	118	65.0-131	
1,1-Dichloroethene	0.125	0.136	109	65.0-131	
cis-1,2-Dichloroethene	0.125	0.119	95.2	73.0-125	
trans-1,2-Dichloroethene	0.125	0.126	101	71.0-125	
1,2-Dichloropropane	0.125	0.152	122	74.0-125	
1,1-Dichloropropene	0.125	0.108	86.4	73.0-125	
1,3-Dichloropropane	0.125	0.120	96.0	80.0-125	
cis-1,3-Dichloropropene	0.125	0.127	102	76.0-127	
trans-1,3-Dichloropropene	0.125	0.124	99.2	73.0-127	
2,2-Dichloropropane	0.125	0.105	84.0	59.0-135	
Di-isopropyl ether	0.125	0.179	143	60.0-136	J4

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3523249-1 04/29/20 08:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	0.125	0.117	93.6	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.0896	71.7	57.0-150	
2-Hexanone	0.625	0.759	121	54.0-147	
n-Hexane	0.125	0.156	125	55.0-137	
Iodomethane	0.625	0.593	94.9	74.0-134	
Isopropylbenzene	0.125	0.104	83.2	72.0-127	
p-Isopropyltoluene	0.125	0.116	92.8	72.0-133	
2-Butanone (MEK)	0.625	0.784	125	30.0-160	
Methylene Chloride	0.125	0.112	89.6	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.785	126	56.0-143	
Methyl tert-butyl ether	0.125	0.121	96.8	66.0-132	
Naphthalene	0.125	0.108	86.4	59.0-130	
n-Propylbenzene	0.125	0.130	104	74.0-126	
Styrene	0.125	0.113	90.4	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.108	86.4	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.152	122	68.0-128	
Tetrachloroethene	0.125	0.107	85.6	70.0-136	
Toluene	0.125	0.116	92.8	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.129	103	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.102	81.6	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.0971	77.7	62.0-137	
1,1,1-Trichloroethane	0.125	0.123	98.4	69.0-126	
1,1,2-Trichloroethane	0.125	0.121	96.8	78.0-123	
Trichloroethene	0.125	0.112	89.6	76.0-126	
Trichlorofluoromethane	0.125	0.125	100	61.0-142	
1,2,3-Trichloropropane	0.125	0.127	102	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.111	88.8	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.117	93.6	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.136	109	73.0-127	
Vinyl acetate	0.625	0.841	135	43.0-159	
Vinyl chloride	0.125	0.173	138	63.0-134	J4
Xylenes, Total	0.375	0.328	87.5	72.0-127	
(S) Toluene-d8			104	75.0-131	
(S) 4-Bromofluorobenzene			93.6	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) R3523764-3 04/30/20 23:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
(S) Toluene-d8	105			75.0-131
(S) 4-Bromofluorobenzene	95.3			67.0-138
(S) 1,2-Dichloroethane-d4	103			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

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

(LCS) R3523764-1 04/30/20 22:16 • (LCSD) R3523764-2 04/30/20 22:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
p-Isopropyltoluene	0.125	0.147	0.158	118	126	72.0-133			7.21	20
(S) Toluene-d8				103	103	75.0-131				
(S) 4-Bromofluorobenzene				96.7	97.8	67.0-138				
(S) 1,2-Dichloroethane-d4				112	111	70.0-130				

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



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

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	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.

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

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
J4	The associated batch QC was outside the established quality control range for accuracy.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
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}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

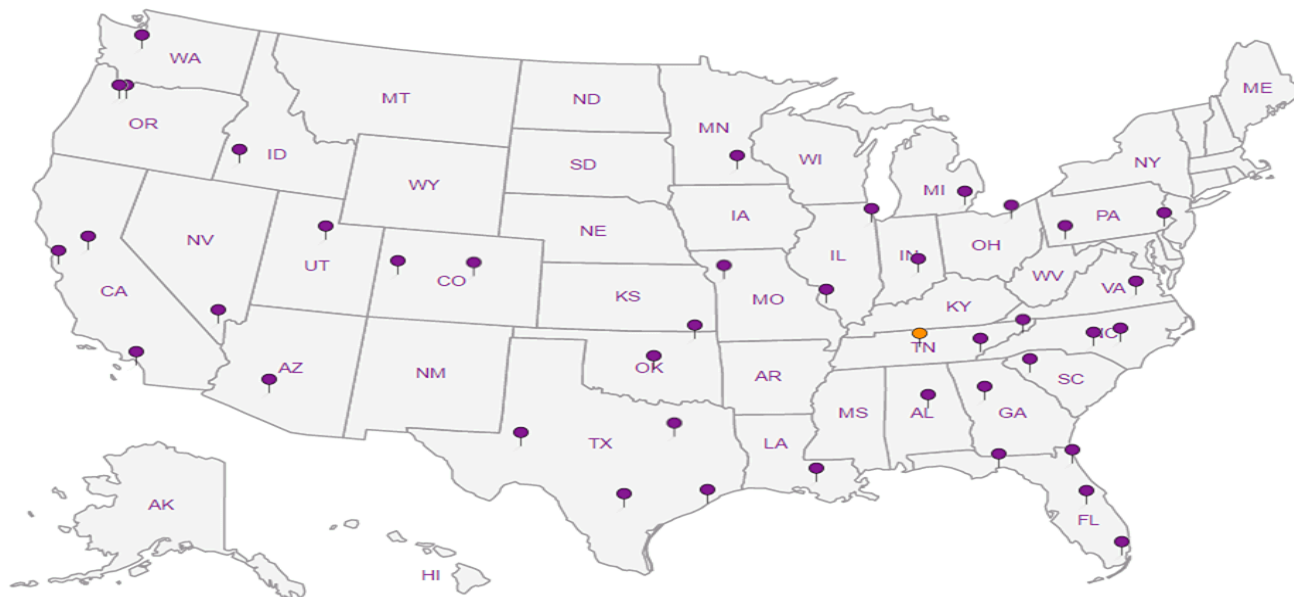
Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

PES Environmental, Inc. - WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:

Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres
Chk

Analysis / Container / Preservative



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



Report to:
Brian O'Neal/Bill Haldeman

Email To:
boneal@pesenv.com; bhaldeman@pesenv.com;

Project Description:
American Linen

City/State
Collected: **Seattle WA**

Please Circle:
PT MT CT ET

Phone: **206-529-3980**

Client Project #
1413.001.02.501B

Lab Project #
PESENVSWA-ALP

Collected by (print):
R.M. LADGALIN

Site/Facility ID #

P.O. #

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)

Quote #

___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

No.
of
Cntrs

Immediately
Packed on Ice N ___ Y **X**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOCs 8260D 40mIAmb/MeOH5ml/Syr	dry weight 2ozCir-NoPres	trip bik VOC 8260LLC 40mIAmb-HCl-Bik	Analysis / Container / Preservative	Chain of Custody
MW-330-6	Grab	SS	6	4-20-20	1010	2	X	X			
MW-330-10		SS	10		1012	2	X	X			
MW-330-11.5		SS	11.5		1030	2	X	X			
MW-330-16		SS	16		1032	2	X	X			
MW-330-21.5		SS	21.5		1105	2	X	X			
MW-330-27		SS	27		1107	2	X	X			
MW-330-32		SS	32		1125	2	X	X			
MW-330-38		SS	38		1127	2	X	X			
MW-330-42		SS	42		1205	2	X	X			
MW-330-47	Grab	SS	47	4-20-20	1207	2	X	X			

SDG # **L121082**
D182

Acctnum: **PESENVSWA**

Template: **T165829**

Prelogin: **P766851**

PM: **110 - Brian Ford**

PB:

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 _____

Sample Receipt Checklist	
COC Seal Present/Intact: ___ 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 # **1749 9997 2421**

Relinquished by: (Signature)
[Signature]

Date: **4/23/20**
Time: **0900**

Received by: (Signature)

Trip Blank Received: Yes/No
 Yes No
HCL/MeOH
TBR

Relinquished by: (Signature)

Date: _____
Time: _____

Received by: (Signature)

Temp: **21.0** °C
Bottles Received: **68**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: _____
Time: _____

Received for lab by: (Signature)
[Signature]

Date: **4/24/20**
Time: **815**

Hold:

Condition:
NCF / **OK**

PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 4



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



Report to:
Brian O'Neal/Bill Haldeman

Email To:
boneal@pesenv.com; bhaldeman@pesenv.com;

Project Description:
American Linen

City/State
Collected: SEATTLE WA

Please Circle:
PT MT CT ET

Phone: 206-529-3980

Client Project #
1413.001.02.501B

Lab Project #
PESENVSWA-ALP

Collected by (print):
R. McLaughlin

Site/Facility ID #

P.O. #

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

Quote #
Date Results Needed

Immediately
Packed on Ice N Y

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	VOCs 8260D 40miAmb/MeOH5ml/Syr	dry weight 2ozCir-NoPres	trip blk VOC 8260LLC 40miAmb-HCl-Bik	Analysis	Container	Preservative	Remarks	Sample # (lab only)
MW-330-52	Grab	SS	52	4/20/20	1240	2	X	X						-11
MW-330-58		SS	58	4/20/20	1242	2	X	X						-12
MW-330-62		SS	62	4/20/20	1245	2	X	X						-13
MW-336-7		SS	7	4/22/20	0910	2	X	X						-14
MW-336-11.5		SS	11.5		0938	2	X	X						-15
MW-336-14.5		SS	14.5		0940	2	X	X						-16
MW-336-20		SS	20		0942	2	X	X						-17
MW-336-25		SS	25		1055	2	X	X						-18
MW-336-30	✓	SS	30	↓	1058	2	X	X						-19
MW-336-35	Grab	SS	35	4/22/20	1107	2	X	X						-20

* 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: NP 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

Samples returned via:
 UPS FedEx Courier

Tracking #

Relinquished by: (Signature)

Date: 4/23/20

Time: 0900

Received by: (Signature)

Trip Blank Received: Yes/No
 Yes No
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: 21±0=2.1 °C
Bottles Received: 608

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 4/24/20
Time: 815

Hold:

Condition:
NCF /

[Handwritten signature]

PES Environmental, Inc.- WA
 1215 Fourth Ave., Suite 1350
 Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
 1215 Fourth Ave., Ste. 1350
 Seattle, WA 98161

Pres
 Chk

Report to:
Brian O'Neal/Bill Haldeman

Email To:
boneal@pesenv.com; bhaldean@pesenv.com;

Project Description:
American Linen

City/State
 Collected: **SEATTLE WA**

Please Circle:
 PT MT CT ET

Phone: **206-529-3980**


Client Project #
1413.001.02.501B

Lab Project #
PESENVSWA-ALP

Collected by (print):
R. McLaughlin

Site/Facility ID #

P.O. #

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
 Date Results Needed

No.
 of
 Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Analysis / Container / Preservative		Chain of Custody	
MW-336-40	Grab	SS	40	4/22/20	1110	2	VOCs 8260D 40mlAmb/MeOH5ml/Syr dry weight ZozCir-NoPres	Pace Analytical® National Center for Testing & Innovation 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 QR Code SDG # L212082 Table # Acctnum: PESENVSWA Template: T165829 Prelogin: P766851 PM: 110 - Brian Ford PB: Shipped Via: Remarks Sample # (lab only)	
MW-336-45		SS	45		1240	2			-22
MW-336-51		SS	51		1242	2			-23
MW-336-55		SS	55		1245	2			-24
MW-336-60		SS	60		1247	2			-25
MW-336-65		SS	65		1310	2			-26
MW-336-69		SS	69		1315	2			-27
MW-336-74.5		SS	74.5		1317	2			-28
MW-336-79		SS	79		1335	2			-29
MW-336-85	Grab	SS	85	4/22/20	1337	2			-30

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

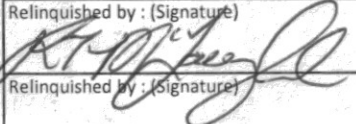
Remarks: **Standard TAT**

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 #

Relinquished by: (Signature)


Date: **4/23/20**
 Time: **0900**

Received by: (Signature)

Trip Blank Received: Yes No
 HCl/ MeOH
 TBR

Relinquished by: (Signature)

Date: _____
 Time: _____

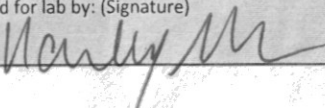
Received by: (Signature)

Temp: **21.0** °C
 Bottles Received: **60**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: _____
 Time: _____

Received for lab by: (Signature)


Date: **4/24/20**
 Time: **815**

Hold: _____
 Conditions: NCF / OK

PES Environmental, Inc.- WA
 1215 Fourth Ave., Suite 1350
 Seattle, WA 98161

Billing Information:
 Attn: Accounts Payable
 1215 Fourth Ave., Ste. 1350
 Seattle, WA 98161

Report to:
 Brian O'Neal/Bill Haldeman

Project Description:
 American Linen

City/State Collected: **SEATTLE WA**

Client Project #
 1413.001.02.501B

Lab Project #
 PESENVSWA-ALP

Collected by (print):
 R. McLAUGHLIN

Site/Facility ID #

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

Date Results Needed

Immediately

Packed on Ice N ___ Y

Analysis / Container / Preservative

Chain of Custody Page 4 of 4

Pace Analytical®
 National Center for Testing & Innovation

12065 Lebanon Rd
 Mount Juliet, TN 37122
 Phone: 615-758-5858
 Phone: 800-767-5859
 Fax: 615-758-5859

SDG # U22082

Table #

Acctnum: **PESENVSWA**

Template: **T165829**

Prelogin: **P766851**

PM: **110 - Brian Ford**

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOCs 8260D 40mIAmb/MeOH5ml/Syr	dry weight 2ozClr-NoPres	trip blk VOC 8260LLC 40mIAmb-HCl-BIK	Remarks	Sample # (lab only)
MW-336-90	Grab	SS	90	4/22/20	1350	2	X	X			-31
MW-336-95	Grab	SS	95	4/22/20	1352	2	X	X			-32
MW-2019-11.5	Grab	SS	11.5	4/22/20	0830	2	X	X			-33
MW-2020-95	Grab	SS	95	4/22/20	1530	2	X	X			-34
TB-042320	—	SS	—	4/23/20	0850	1			X		-35
		SS									
		SS									
		SS									
		SS									
		SS									

* 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 #

Relinquished by: (Signature) Date: 4/23/20 Time: 0900

Received by: (Signature) Date: _____ Time: _____

Temp: 16°C Bottles Received: 68

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: NP N

COC Signed/Accurate: N

Bottles arrive intact: N

Correct bottles used: N

Sufficient volume sent: N

If Applicable

VOA Zero Headspace: N

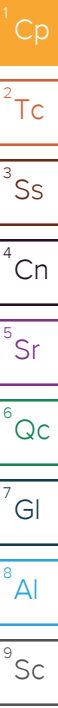
Preservation Correct/Checked: N

RAD Screen <0.5 mR/hr: N

Relinquished by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) Date: 4/24/20 Time: 815

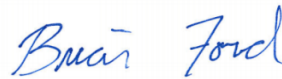
Hold: _____ Condition: NCF / OK



PES Environmental, Inc.- WA

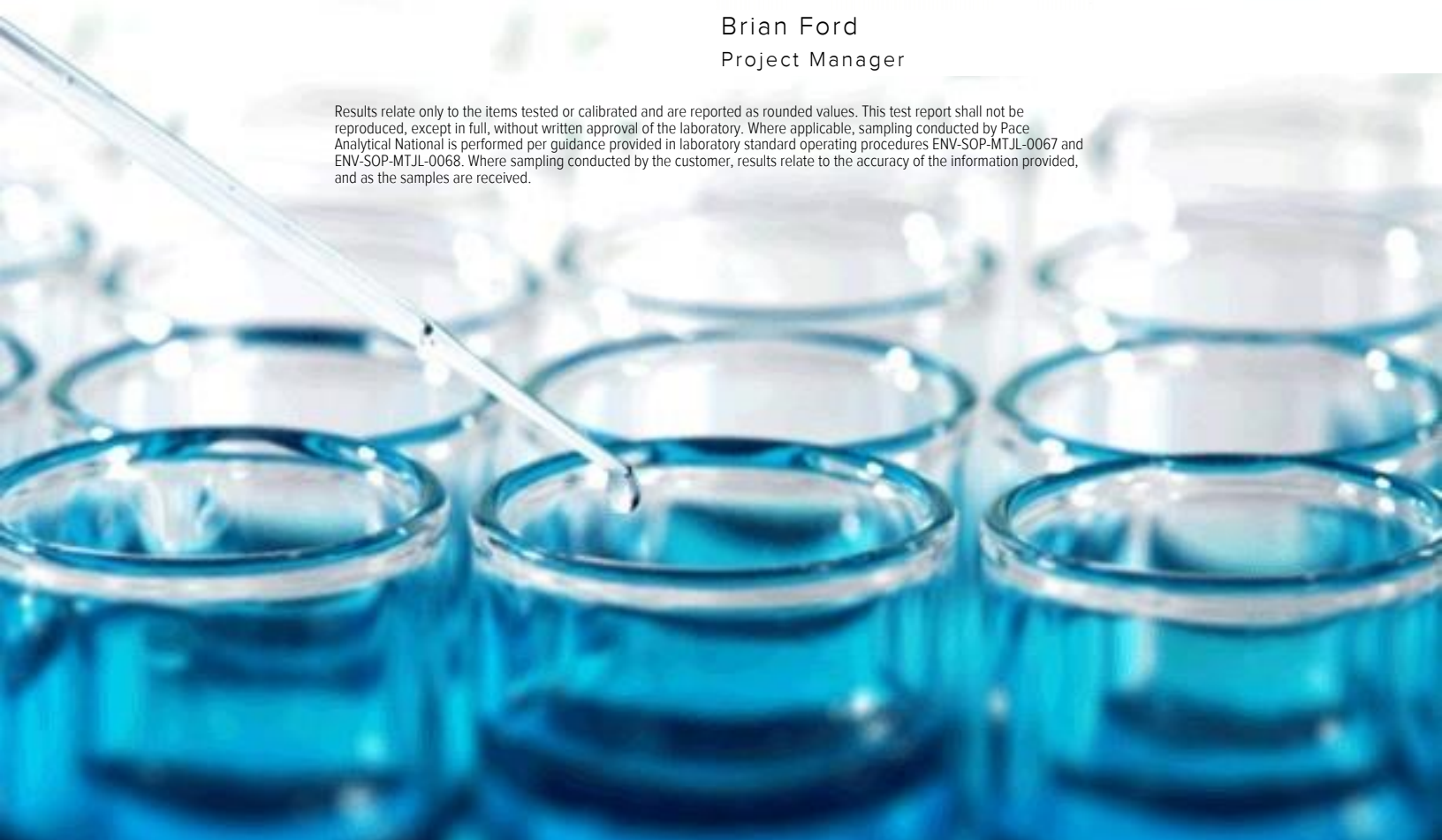
Sample Delivery Group: L1212335
Samples Received: 04/25/2020
Project Number: 1413.001.02.501E
Description: American Linen
Site: AMERICAN LINEN
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford
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.





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

SAMPLE SUMMARY

MW-158A-042420 L1212335-01 GW

Collected by: Sean Kounovsky
 Collected date/time: 04/24/20 09:30
 Received date/time: 04/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1466892	1	04/29/20 22:32	04/29/20 22:32	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1466208	1	04/25/20 13:46	04/25/20 13:46	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1467393	1	04/28/20 14:29	04/28/20 14:29	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1466908	1	04/27/20 22:11	04/28/20 15:15	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1469249	1	05/01/20 12:36	05/01/20 12:36	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1467817	1	04/29/20 11:38	04/29/20 11:38	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1468990	1	05/01/20 07:51	05/01/20 07:51	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470366	1	05/05/20 00:51	05/05/20 00:51	JAH	Mt. Juliet, TN

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

MW-142-042420 L1212335-02 GW

Collected by: Sean Kounovsky
 Collected date/time: 04/24/20 09:40
 Received date/time: 04/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1466892	1	04/29/20 22:42	04/29/20 22:42	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1466208	1	04/25/20 14:08	04/25/20 14:08	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1467393	1	04/28/20 14:46	04/28/20 14:46	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1466908	1	04/27/20 22:11	04/28/20 15:18	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1469249	1	05/01/20 12:57	05/01/20 12:57	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1467817	1	04/29/20 11:41	04/29/20 11:41	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1468990	1	05/01/20 08:11	05/01/20 08:11	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470366	1	05/05/20 01:12	05/05/20 01:12	JAH	Mt. Juliet, TN

MW-331-042420 L1212335-03 GW

Collected by: Sean Kounovsky
 Collected date/time: 04/24/20 10:10
 Received date/time: 04/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1466892	1	04/29/20 22:51	04/29/20 22:51	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1466208	1	04/25/20 14:40	04/25/20 14:40	ST	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1466208	5	04/26/20 13:11	04/26/20 13:11	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1467393	1	04/28/20 15:00	04/28/20 15:00	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1466908	1	04/27/20 22:11	04/28/20 13:53	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1467817	1	04/29/20 11:44	04/29/20 11:44	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1468990	1	05/01/20 08:32	05/01/20 08:32	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470366	1	05/05/20 01:32	05/05/20 01:32	JAH	Mt. Juliet, TN

MW-315-042420 L1212335-04 GW

Collected by: Sean Kounovsky
 Collected date/time: 04/24/20 12:00
 Received date/time: 04/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1466892	1	04/29/20 22:59	04/29/20 22:59	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1466208	1	04/25/20 14:51	04/25/20 14:51	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1467393	1	04/28/20 15:16	04/28/20 15:16	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1466908	1	04/27/20 22:11	04/28/20 15:22	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1467817	1	04/29/20 11:47	04/29/20 11:47	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1468990	1	05/01/20 08:53	05/01/20 08:53	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470366	1	05/05/20 01:52	05/05/20 01:52	JAH	Mt. Juliet, TN

SAMPLE SUMMARY

MW-143-042420 L1212335-05 GW

Collected by
Sean Kounovsky

Collected date/time
04/24/20 12:05

Received date/time
04/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1466892	1	04/29/20 23:08	04/29/20 23:08	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1466208	1	04/25/20 15:02	04/25/20 15:02	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1467393	1	04/28/20 15:31	04/28/20 15:31	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1466908	1	04/27/20 22:11	04/28/20 15:25	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1467703	1	04/28/20 22:43	04/28/20 22:43	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1470547	1	05/05/20 11:30	05/05/20 11:30	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1468990	1	05/01/20 09:13	05/01/20 09:13	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470366	1	05/05/20 02:13	05/05/20 02:13	JAH	Mt. Juliet, TN

1
Cp

2
Tc

3
Ss

4
Cn

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Sr

6
Qc

7
Gl

8
Al

9
Sc

MW-157-042420 L1212335-06 GW

Collected by
Sean Kounovsky

Collected date/time
04/24/20 12:40

Received date/time
04/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1466892	1	04/29/20 23:17	04/29/20 23:17	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1466208	1	04/25/20 15:13	04/25/20 15:13	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1467393	1	04/28/20 15:46	04/28/20 15:46	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1467590	1	04/29/20 17:03	04/29/20 21:21	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1467703	1	04/28/20 23:06	04/28/20 23:06	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1467817	1	04/29/20 11:52	04/29/20 11:52	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470366	20	05/05/20 08:31	05/05/20 08:31	JAH	Mt. Juliet, TN

MW-156-042420 L1212335-07 GW

Collected by
Sean Kounovsky

Collected date/time
04/24/20 14:15

Received date/time
04/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1466892	1	04/29/20 23:25	04/29/20 23:25	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1466208	1	04/25/20 15:24	04/25/20 15:24	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1467393	1	04/28/20 17:26	04/28/20 17:26	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1467590	1	04/29/20 17:03	04/29/20 21:25	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1469249	1	05/01/20 13:19	05/01/20 13:19	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1467817	1	04/29/20 11:55	04/29/20 11:55	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1468990	50	05/01/20 13:20	05/01/20 13:20	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470366	50	05/05/20 08:51	05/05/20 08:51	JAH	Mt. Juliet, TN

MW-324-042420 L1212335-08 GW

Collected by
Sean Kounovsky

Collected date/time
04/24/20 14:15

Received date/time
04/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1466892	1	04/29/20 23:33	04/29/20 23:33	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1466208	1	04/25/20 16:07	04/25/20 16:07	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1467393	1	04/28/20 17:42	04/28/20 17:42	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1467590	1	04/29/20 17:03	04/29/20 21:28	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1467817	1	04/29/20 13:01	04/29/20 13:01	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1468990	50	05/01/20 13:41	05/01/20 13:41	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470366	50	05/05/20 09:11	05/05/20 09:11	JAH	Mt. Juliet, TN

SAMPLE SUMMARY



MW-334-042420 L1212335-09 GW

Collected by	Collected date/time	Received date/time
Sean Kounovsky	04/24/20 14:20	04/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1466892	1	04/29/20 23:41	04/29/20 23:41	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1466208	1	04/25/20 16:29	04/25/20 16:29	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1467393	1	04/28/20 17:58	04/28/20 17:58	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1467590	1	04/29/20 17:03	04/29/20 21:50	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1467817	1	04/29/20 13:04	04/29/20 13:04	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1468509	10	04/30/20 13:18	04/30/20 13:18	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1468990	1	05/01/20 09:34	05/01/20 09:34	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470366	1	05/05/20 02:33	05/05/20 02:33	JAH	Mt. Juliet, TN

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



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.

Brian Ford
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	333000		8450	20000	1	04/29/2020 22:32	WG1466892

Sample Narrative:

L1212335-01 WG1466892: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	23900		379	1000	1	04/25/2020 13:46	WG1466208
Nitrate	U		48.0	100	1	04/25/2020 13:46	WG1466208
Sulfate	13000		594	5000	1	04/25/2020 13:46	WG1466208

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)	3140		102	1000	1	04/28/2020 14:29	WG1467393

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	6380		48.9	100	1	04/28/2020 15:15	WG1466908
Manganese	326		1.32	5.00	1	04/28/2020 15:15	WG1466908

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	38.0	<u>B</u>	31.6	100	1	05/01/2020 12:36	WG1469249
(S) a,a,a-Trifluorotoluene(FID)	97.6			78.0-120		05/01/2020 12:36	WG1469249

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	88.4		0.287	0.678	1	04/29/2020 11:38	WG1467817
Ethane	U		0.296	1.29	1	04/29/2020 11:38	WG1467817
Ethene	9.01		0.422	1.27	1	04/29/2020 11:38	WG1467817

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		11.3	25.0	1	05/01/2020 07:51	WG1468990
Acrylonitrile	U		0.671	5.00	1	05/01/2020 07:51	WG1468990
Benzene	U		0.0941	0.500	1	05/01/2020 07:51	WG1468990
Bromobenzene	U		0.118	0.500	1	05/01/2020 07:51	WG1468990
Bromodichloromethane	U		0.136	0.500	1	05/01/2020 07:51	WG1468990
Bromochloromethane	U		0.128	0.500	1	05/01/2020 07:51	WG1468990
Bromoform	U		0.129	0.500	1	05/01/2020 07:51	WG1468990
Bromomethane	U	<u>JO</u>	0.605	2.50	1	05/01/2020 07:51	WG1468990
n-Butylbenzene	U		0.157	0.500	1	05/01/2020 07:51	WG1468990
sec-Butylbenzene	U		0.125	0.500	1	05/01/2020 07:51	WG1468990
tert-Butylbenzene	U		0.127	0.500	1	05/01/2020 07:51	WG1468990
Carbon disulfide	0.152	<u>J</u>	0.0962	0.500	1	05/01/2020 07:51	WG1468990
Carbon tetrachloride	U		0.128	0.500	1	05/01/2020 07:51	WG1468990

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	
Chlorobenzene	U		0.117	0.500	1	05/01/2020 07:51	WG1468990
Chlorodibromomethane	U		0.140	0.500	1	05/01/2020 07:51	WG1468990
Chloroethane	U		0.192	2.50	1	05/01/2020 07:51	WG1468990
Chloroform	U		0.111	0.500	1	05/01/2020 07:51	WG1468990
Chloromethane	U		0.960	1.25	1	05/01/2020 07:51	WG1468990
2-Chlorotoluene	U		0.106	0.500	1	05/01/2020 07:51	WG1468990
4-Chlorotoluene	U		0.114	0.500	1	05/01/2020 07:51	WG1468990
1,2-Dibromo-3-Chloropropane	U	JO	0.276	2.50	1	05/01/2020 07:51	WG1468990
1,2-Dibromoethane	U		0.126	0.500	1	05/01/2020 07:51	WG1468990
Dibromomethane	U		0.122	0.500	1	05/01/2020 07:51	WG1468990
1,2-Dichlorobenzene	U		0.107	0.500	1	05/01/2020 07:51	WG1468990
1,3-Dichlorobenzene	U		0.299	0.500	1	05/01/2020 07:51	WG1468990
1,4-Dichlorobenzene	U		0.120	0.500	1	05/01/2020 07:51	WG1468990
Dichlorodifluoromethane	U		0.374	2.50	1	05/01/2020 07:51	WG1468990
1,1-Dichloroethane	U		0.100	0.500	1	05/01/2020 07:51	WG1468990
1,2-Dichloroethane	U		0.0819	0.500	1	05/01/2020 07:51	WG1468990
1,1-Dichloroethene	U		0.188	0.500	1	05/01/2020 07:51	WG1468990
cis-1,2-Dichloroethene	1.15		0.126	0.500	1	05/01/2020 07:51	WG1468990
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/01/2020 07:51	WG1468990
1,2-Dichloropropane	U		0.149	0.500	1	05/01/2020 07:51	WG1468990
1,1-Dichloropropene	U		0.142	0.500	1	05/01/2020 07:51	WG1468990
1,3-Dichloropropane	U		0.109	1.00	1	05/01/2020 07:51	WG1468990
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/01/2020 07:51	WG1468990
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/01/2020 07:51	WG1468990
trans-1,4-Dichloro-2-butene	U	JO	0.467	5.00	1	05/01/2020 07:51	WG1468990
2,2-Dichloropropane	U		0.161	0.500	1	05/01/2020 07:51	WG1468990
Di-isopropyl ether	U		0.105	0.500	1	05/01/2020 07:51	WG1468990
Ethylbenzene	U		0.137	0.500	1	05/01/2020 07:51	WG1468990
Hexachloro-1,3-butadiene	U	JO J4	0.337	1.00	1	05/01/2020 07:51	WG1468990
2-Hexanone	U		0.787	5.00	1	05/01/2020 07:51	WG1468990
n-Hexane	U		0.749	5.00	1	05/01/2020 07:51	WG1468990
Iodomethane	U		6.00	10.0	1	05/01/2020 07:51	WG1468990
Isopropylbenzene	U		0.105	0.500	1	05/01/2020 07:51	WG1468990
p-Isopropyltoluene	U		0.120	0.500	1	05/01/2020 07:51	WG1468990
2-Butanone (MEK)	U		1.19	5.00	1	05/01/2020 07:51	WG1468990
Methylene Chloride	U		0.430	2.50	1	05/01/2020 07:51	WG1468990
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/01/2020 07:51	WG1468990
Methyl tert-butyl ether	U		0.101	0.500	1	05/01/2020 07:51	WG1468990
Naphthalene	U		0.174	2.50	1	05/01/2020 07:51	WG1468990
n-Propylbenzene	U		0.0993	0.500	1	05/01/2020 07:51	WG1468990
Styrene	U	JO	0.118	0.500	1	05/01/2020 07:51	WG1468990
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/01/2020 07:51	WG1468990
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/01/2020 07:51	WG1468990
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/01/2020 07:51	WG1468990
Tetrachloroethene	U		0.300	0.500	1	05/01/2020 07:51	WG1468990
Toluene	U		0.278	0.500	1	05/01/2020 07:51	WG1468990
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/05/2020 00:51	WG1470366
1,2,4-Trichlorobenzene	U	JO	0.481	1.00	1	05/01/2020 07:51	WG1468990
1,1,1-Trichloroethane	U		0.149	0.500	1	05/01/2020 07:51	WG1468990
1,1,2-Trichloroethane	U		0.158	0.500	1	05/01/2020 07:51	WG1468990
Trichloroethene	0.251	J	0.190	0.500	1	05/01/2020 07:51	WG1468990
Trichlorofluoromethane	U		0.160	2.50	1	05/01/2020 07:51	WG1468990
1,2,3-Trichloropropane	U		0.237	2.50	1	05/01/2020 07:51	WG1468990
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/01/2020 07:51	WG1468990
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 07:51	WG1468990
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 07:51	WG1468990

- 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
Vinyl acetate	U	<u>JO</u>	0.692	5.00	1	05/01/2020 07:51	WG1468990
Vinyl chloride	1.45		0.234	0.500	1	05/01/2020 07:51	WG1468990
Xylenes, Total	U		0.174	1.50	1	05/01/2020 07:51	WG1468990
(S) Toluene-d8	102			80.0-120		05/01/2020 07:51	WG1468990
(S) Toluene-d8	107			80.0-120		05/05/2020 00:51	WG1470366
(S) 4-Bromofluorobenzene	95.3			77.0-126		05/01/2020 07:51	WG1468990
(S) 4-Bromofluorobenzene	102			77.0-126		05/05/2020 00:51	WG1470366
(S) 1,2-Dichloroethane-d4	115			70.0-130		05/01/2020 07:51	WG1468990
(S) 1,2-Dichloroethane-d4	85.6			70.0-130		05/05/2020 00:51	WG1470366

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 date / time	Batch
Alkalinity	850000		8450	20000	1	04/29/2020 22:42	WG1466892

Sample Narrative:

L1212335-02 WG1466892: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	17500		379	1000	1	04/25/2020 14:08	WG1466208
Nitrate	69.5	J	48.0	100	1	04/25/2020 14:08	WG1466208
Sulfate	22600		594	5000	1	04/25/2020 14:08	WG1466208

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	16100		102	1000	1	04/28/2020 14:46	WG1467393

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	5800		48.9	100	1	04/28/2020 15:18	WG1466908
Manganese	3520		1.32	5.00	1	04/28/2020 15:18	WG1466908

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	62.4	B, J	31.6	100	1	05/01/2020 12:57	WG1469249
(S) a,a,a-Trifluorotoluene(FID)	96.8			78.0-120		05/01/2020 12:57	WG1469249

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	471		0.287	0.678	1	04/29/2020 11:41	WG1467817
Ethane	27.1		0.296	1.29	1	04/29/2020 11:41	WG1467817
Ethene	U		0.422	1.27	1	04/29/2020 11:41	WG1467817

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		11.3	25.0	1	05/01/2020 08:11	WG1468990
Acrylonitrile	U		0.671	5.00	1	05/01/2020 08:11	WG1468990
Benzene	0.359	J	0.0941	0.500	1	05/01/2020 08:11	WG1468990
Bromobenzene	U		0.118	0.500	1	05/01/2020 08:11	WG1468990
Bromodichloromethane	U		0.136	0.500	1	05/01/2020 08:11	WG1468990
Bromochloromethane	U		0.128	0.500	1	05/01/2020 08:11	WG1468990
Bromoform	U		0.129	0.500	1	05/01/2020 08:11	WG1468990
Bromomethane	U	JO	0.605	2.50	1	05/01/2020 08:11	WG1468990
n-Butylbenzene	U		0.157	0.500	1	05/01/2020 08:11	WG1468990
sec-Butylbenzene	U		0.125	0.500	1	05/01/2020 08:11	WG1468990
tert-Butylbenzene	U		0.127	0.500	1	05/01/2020 08:11	WG1468990
Carbon disulfide	U		0.0962	0.500	1	05/01/2020 08:11	WG1468990
Carbon tetrachloride	U		0.128	0.500	1	05/01/2020 08:11	WG1468990

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
Chlorobenzene	U		0.117	0.500	1	05/01/2020 08:11	WG1468990
Chlorodibromomethane	U		0.140	0.500	1	05/01/2020 08:11	WG1468990
Chloroethane	U		0.192	2.50	1	05/01/2020 08:11	WG1468990
Chloroform	U		0.111	0.500	1	05/01/2020 08:11	WG1468990
Chloromethane	U		0.960	1.25	1	05/01/2020 08:11	WG1468990
2-Chlorotoluene	U		0.106	0.500	1	05/01/2020 08:11	WG1468990
4-Chlorotoluene	U		0.114	0.500	1	05/01/2020 08:11	WG1468990
1,2-Dibromo-3-Chloropropane	U	JO	0.276	2.50	1	05/01/2020 08:11	WG1468990
1,2-Dibromoethane	U		0.126	0.500	1	05/01/2020 08:11	WG1468990
Dibromomethane	U		0.122	0.500	1	05/01/2020 08:11	WG1468990
1,2-Dichlorobenzene	U		0.107	0.500	1	05/01/2020 08:11	WG1468990
1,3-Dichlorobenzene	U		0.299	0.500	1	05/01/2020 08:11	WG1468990
1,4-Dichlorobenzene	U		0.120	0.500	1	05/01/2020 08:11	WG1468990
Dichlorodifluoromethane	U		0.374	2.50	1	05/01/2020 08:11	WG1468990
1,1-Dichloroethane	U		0.100	0.500	1	05/01/2020 08:11	WG1468990
1,2-Dichloroethane	U		0.0819	0.500	1	05/01/2020 08:11	WG1468990
1,1-Dichloroethene	0.221	U	0.188	0.500	1	05/01/2020 08:11	WG1468990
cis-1,2-Dichloroethene	53.6		0.126	0.500	1	05/01/2020 08:11	WG1468990
trans-1,2-Dichloroethene	0.454	U	0.149	0.500	1	05/01/2020 08:11	WG1468990
1,2-Dichloropropane	U		0.149	0.500	1	05/01/2020 08:11	WG1468990
1,1-Dichloropropene	U		0.142	0.500	1	05/01/2020 08:11	WG1468990
1,3-Dichloropropane	U		0.109	1.00	1	05/01/2020 08:11	WG1468990
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/01/2020 08:11	WG1468990
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/01/2020 08:11	WG1468990
trans-1,4-Dichloro-2-butene	U	JO	0.467	5.00	1	05/01/2020 08:11	WG1468990
2,2-Dichloropropane	U		0.161	0.500	1	05/01/2020 08:11	WG1468990
Di-isopropyl ether	U		0.105	0.500	1	05/01/2020 08:11	WG1468990
Ethylbenzene	U		0.137	0.500	1	05/01/2020 08:11	WG1468990
Hexachloro-1,3-butadiene	U	JO J4	0.337	1.00	1	05/01/2020 08:11	WG1468990
2-Hexanone	U		0.787	5.00	1	05/01/2020 08:11	WG1468990
n-Hexane	U		0.749	5.00	1	05/01/2020 08:11	WG1468990
Iodomethane	U		6.00	10.0	1	05/01/2020 08:11	WG1468990
Isopropylbenzene	U		0.105	0.500	1	05/01/2020 08:11	WG1468990
p-Isopropyltoluene	U		0.120	0.500	1	05/01/2020 08:11	WG1468990
2-Butanone (MEK)	U		1.19	5.00	1	05/01/2020 08:11	WG1468990
Methylene Chloride	U		0.430	2.50	1	05/01/2020 08:11	WG1468990
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/01/2020 08:11	WG1468990
Methyl tert-butyl ether	U		0.101	0.500	1	05/01/2020 08:11	WG1468990
Naphthalene	U		0.174	2.50	1	05/01/2020 08:11	WG1468990
n-Propylbenzene	U		0.0993	0.500	1	05/01/2020 08:11	WG1468990
Styrene	U	JO	0.118	0.500	1	05/01/2020 08:11	WG1468990
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/01/2020 08:11	WG1468990
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/01/2020 08:11	WG1468990
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/01/2020 08:11	WG1468990
Tetrachloroethene	U		0.300	0.500	1	05/01/2020 08:11	WG1468990
Toluene	U		0.278	0.500	1	05/01/2020 08:11	WG1468990
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/05/2020 01:12	WG1470366
1,2,4-Trichlorobenzene	U	JO	0.481	1.00	1	05/01/2020 08:11	WG1468990
1,1,1-Trichloroethane	U		0.149	0.500	1	05/01/2020 08:11	WG1468990
1,1,2-Trichloroethane	U		0.158	0.500	1	05/01/2020 08:11	WG1468990
Trichloroethene	0.206	U	0.190	0.500	1	05/01/2020 08:11	WG1468990
Trichlorofluoromethane	U		0.160	2.50	1	05/01/2020 08:11	WG1468990
1,2,3-Trichloropropane	U		0.237	2.50	1	05/01/2020 08:11	WG1468990
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/01/2020 08:11	WG1468990
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 08:11	WG1468990
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 08:11	WG1468990

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
Vinyl acetate	U	<u>JO</u>	0.692	5.00	1	05/01/2020 08:11	WG1468990
Vinyl chloride	9.14		0.234	0.500	1	05/01/2020 08:11	WG1468990
Xylenes, Total	U		0.174	1.50	1	05/01/2020 08:11	WG1468990
(S) Toluene-d8	97.6			80.0-120		05/01/2020 08:11	WG1468990
(S) Toluene-d8	107			80.0-120		05/05/2020 01:12	WG1470366
(S) 4-Bromofluorobenzene	99.5			77.0-126		05/01/2020 08:11	WG1468990
(S) 4-Bromofluorobenzene	102			77.0-126		05/05/2020 01:12	WG1470366
(S) 1,2-Dichloroethane-d4	111			70.0-130		05/01/2020 08:11	WG1468990
(S) 1,2-Dichloroethane-d4	83.6			70.0-130		05/05/2020 01:12	WG1470366

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	292000		8450	20000	1	04/29/2020 22:51	WG1466892

Sample Narrative:

L1212335-03 WG1466892: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	34700		379	1000	1	04/25/2020 14:40	WG1466208
Nitrate	U		48.0	100	1	04/25/2020 14:40	WG1466208
Sulfate	243000		2970	25000	5	04/26/2020 13:11	WG1466208

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)	3360		102	1000	1	04/28/2020 15:00	WG1467393

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	9660		48.9	100	1	04/28/2020 13:53	WG1466908
Manganese	809	<u>V</u>	1.32	5.00	1	04/28/2020 13:53	WG1466908

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	94.1		0.287	0.678	1	04/29/2020 11:44	WG1467817
Ethane	8.18		0.296	1.29	1	04/29/2020 11:44	WG1467817
Ethene	U		0.422	1.27	1	04/29/2020 11:44	WG1467817

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		11.3	25.0	1	05/01/2020 08:32	WG1468990
Acrylonitrile	U		0.671	5.00	1	05/01/2020 08:32	WG1468990
Benzene	0.226	<u>J</u>	0.0941	0.500	1	05/01/2020 08:32	WG1468990
Bromobenzene	U		0.118	0.500	1	05/01/2020 08:32	WG1468990
Bromodichloromethane	U		0.136	0.500	1	05/01/2020 08:32	WG1468990
Bromochloromethane	U		0.128	0.500	1	05/01/2020 08:32	WG1468990
Bromoform	U		0.129	0.500	1	05/01/2020 08:32	WG1468990
Bromomethane	U	<u>JO</u>	0.605	2.50	1	05/01/2020 08:32	WG1468990
n-Butylbenzene	U		0.157	0.500	1	05/01/2020 08:32	WG1468990
sec-Butylbenzene	U		0.125	0.500	1	05/01/2020 08:32	WG1468990
tert-Butylbenzene	U		0.127	0.500	1	05/01/2020 08:32	WG1468990
Carbon disulfide	U		0.0962	0.500	1	05/01/2020 08:32	WG1468990
Carbon tetrachloride	U		0.128	0.500	1	05/01/2020 08:32	WG1468990
Chlorobenzene	U		0.117	0.500	1	05/01/2020 08:32	WG1468990
Chlorodibromomethane	U		0.140	0.500	1	05/01/2020 08:32	WG1468990
Chloroethane	U		0.192	2.50	1	05/01/2020 08:32	WG1468990
Chloroform	U		0.111	0.500	1	05/01/2020 08:32	WG1468990
Chloromethane	U		0.960	1.25	1	05/01/2020 08:32	WG1468990
2-Chlorotoluene	U		0.106	0.500	1	05/01/2020 08:32	WG1468990
4-Chlorotoluene	U		0.114	0.500	1	05/01/2020 08:32	WG1468990

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
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.276	2.50	1	05/01/2020 08:32	WG1468990
1,2-Dibromoethane	U		0.126	0.500	1	05/01/2020 08:32	WG1468990
Dibromomethane	U		0.122	0.500	1	05/01/2020 08:32	WG1468990
1,2-Dichlorobenzene	U		0.107	0.500	1	05/01/2020 08:32	WG1468990
1,3-Dichlorobenzene	U		0.299	0.500	1	05/01/2020 08:32	WG1468990
1,4-Dichlorobenzene	U		0.120	0.500	1	05/01/2020 08:32	WG1468990
Dichlorodifluoromethane	U		0.374	2.50	1	05/01/2020 08:32	WG1468990
1,1-Dichloroethane	0.953		0.100	0.500	1	05/01/2020 08:32	WG1468990
1,2-Dichloroethane	U		0.0819	0.500	1	05/01/2020 08:32	WG1468990
1,1-Dichloroethene	U		0.188	0.500	1	05/01/2020 08:32	WG1468990
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/01/2020 08:32	WG1468990
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/01/2020 08:32	WG1468990
1,2-Dichloropropane	U		0.149	0.500	1	05/01/2020 08:32	WG1468990
1,1-Dichloropropene	U		0.142	0.500	1	05/01/2020 08:32	WG1468990
1,3-Dichloropropane	U		0.109	1.00	1	05/01/2020 08:32	WG1468990
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/01/2020 08:32	WG1468990
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/01/2020 08:32	WG1468990
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.467	5.00	1	05/01/2020 08:32	WG1468990
2,2-Dichloropropane	U		0.161	0.500	1	05/01/2020 08:32	WG1468990
Di-isopropyl ether	U		0.105	0.500	1	05/01/2020 08:32	WG1468990
Ethylbenzene	0.257	<u>J</u>	0.137	0.500	1	05/01/2020 08:32	WG1468990
Hexachloro-1,3-butadiene	U	<u>JO J4</u>	0.337	1.00	1	05/01/2020 08:32	WG1468990
2-Hexanone	U		0.787	5.00	1	05/01/2020 08:32	WG1468990
n-Hexane	U		0.749	5.00	1	05/01/2020 08:32	WG1468990
Iodomethane	U		6.00	10.0	1	05/01/2020 08:32	WG1468990
Isopropylbenzene	0.604		0.105	0.500	1	05/01/2020 08:32	WG1468990
p-Isopropyltoluene	U		0.120	0.500	1	05/01/2020 08:32	WG1468990
2-Butanone (MEK)	U		1.19	5.00	1	05/01/2020 08:32	WG1468990
Methylene Chloride	U		0.430	2.50	1	05/01/2020 08:32	WG1468990
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/01/2020 08:32	WG1468990
Methyl tert-butyl ether	U		0.101	0.500	1	05/01/2020 08:32	WG1468990
Naphthalene	U		0.174	2.50	1	05/01/2020 08:32	WG1468990
n-Propylbenzene	1.64		0.0993	0.500	1	05/01/2020 08:32	WG1468990
Styrene	U	<u>JO</u>	0.118	0.500	1	05/01/2020 08:32	WG1468990
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/01/2020 08:32	WG1468990
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/01/2020 08:32	WG1468990
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/01/2020 08:32	WG1468990
Tetrachloroethene	U		0.300	0.500	1	05/01/2020 08:32	WG1468990
Toluene	U		0.278	0.500	1	05/01/2020 08:32	WG1468990
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/05/2020 01:32	WG1470366
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.481	1.00	1	05/01/2020 08:32	WG1468990
1,1,1-Trichloroethane	U		0.149	0.500	1	05/01/2020 08:32	WG1468990
1,1,2-Trichloroethane	U		0.158	0.500	1	05/01/2020 08:32	WG1468990
Trichloroethene	U		0.190	0.500	1	05/01/2020 08:32	WG1468990
Trichlorofluoromethane	U		0.160	2.50	1	05/01/2020 08:32	WG1468990
1,2,3-Trichloropropane	U		0.237	2.50	1	05/01/2020 08:32	WG1468990
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/01/2020 08:32	WG1468990
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 08:32	WG1468990
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 08:32	WG1468990
Vinyl acetate	U	<u>JO</u>	0.692	5.00	1	05/01/2020 08:32	WG1468990
Vinyl chloride	0.249	<u>J</u>	0.234	0.500	1	05/01/2020 08:32	WG1468990
Xylenes, Total	U		0.174	1.50	1	05/01/2020 08:32	WG1468990
(S) Toluene-d8	101			80.0-120		05/01/2020 08:32	WG1468990
(S) Toluene-d8	108			80.0-120		05/05/2020 01:32	WG1470366
(S) 4-Bromofluorobenzene	97.1			77.0-126		05/01/2020 08:32	WG1468990
(S) 4-Bromofluorobenzene	101			77.0-126		05/05/2020 01:32	WG1470366

- 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) 1,2-Dichloroethane-d4	114			70.0-130		05/01/2020 08:32	WG1468990
(S) 1,2-Dichloroethane-d4	85.9			70.0-130		05/05/2020 01:32	WG1470366

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	251000		8450	20000	1	04/29/2020 22:59	WG1466892

Sample Narrative:

L1212335-04 WG1466892: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	9620		379	1000	1	04/25/2020 14:51	WG1466208
Nitrate	U		48.0	100	1	04/25/2020 14:51	WG1466208
Sulfate	37900		594	5000	1	04/25/2020 14:51	WG1466208

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)	1250	<u>B</u>	102	1000	1	04/28/2020 15:16	WG1467393

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2340		48.9	100	1	04/28/2020 15:22	WG1466908
Manganese	329		1.32	5.00	1	04/28/2020 15:22	WG1466908

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	57.8		0.287	0.678	1	04/29/2020 11:47	WG1467817
Ethane	U		0.296	1.29	1	04/29/2020 11:47	WG1467817
Ethene	U		0.422	1.27	1	04/29/2020 11:47	WG1467817

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		11.3	25.0	1	05/01/2020 08:53	WG1468990
Acrylonitrile	U		0.671	5.00	1	05/01/2020 08:53	WG1468990
Benzene	U		0.0941	0.500	1	05/01/2020 08:53	WG1468990
Bromobenzene	U		0.118	0.500	1	05/01/2020 08:53	WG1468990
Bromodichloromethane	U		0.136	0.500	1	05/01/2020 08:53	WG1468990
Bromochloromethane	U		0.128	0.500	1	05/01/2020 08:53	WG1468990
Bromoform	U		0.129	0.500	1	05/01/2020 08:53	WG1468990
Bromomethane	U	<u>JO</u>	0.605	2.50	1	05/01/2020 08:53	WG1468990
n-Butylbenzene	U		0.157	0.500	1	05/01/2020 08:53	WG1468990
sec-Butylbenzene	U		0.125	0.500	1	05/01/2020 08:53	WG1468990
tert-Butylbenzene	U		0.127	0.500	1	05/01/2020 08:53	WG1468990
Carbon disulfide	0.430	<u>J</u>	0.0962	0.500	1	05/01/2020 08:53	WG1468990
Carbon tetrachloride	U		0.128	0.500	1	05/01/2020 08:53	WG1468990
Chlorobenzene	U		0.117	0.500	1	05/01/2020 08:53	WG1468990
Chlorodibromomethane	U		0.140	0.500	1	05/01/2020 08:53	WG1468990
Chloroethane	U		0.192	2.50	1	05/01/2020 08:53	WG1468990
Chloroform	U		0.111	0.500	1	05/01/2020 08:53	WG1468990
Chloromethane	U		0.960	1.25	1	05/01/2020 08:53	WG1468990
2-Chlorotoluene	U		0.106	0.500	1	05/01/2020 08:53	WG1468990
4-Chlorotoluene	U		0.114	0.500	1	05/01/2020 08:53	WG1468990

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	
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.276	2.50	1	05/01/2020 08:53	WG1468990
1,2-Dibromoethane	U		0.126	0.500	1	05/01/2020 08:53	WG1468990
Dibromomethane	U		0.122	0.500	1	05/01/2020 08:53	WG1468990
1,2-Dichlorobenzene	U		0.107	0.500	1	05/01/2020 08:53	WG1468990
1,3-Dichlorobenzene	U		0.299	0.500	1	05/01/2020 08:53	WG1468990
1,4-Dichlorobenzene	U		0.120	0.500	1	05/01/2020 08:53	WG1468990
Dichlorodifluoromethane	U		0.374	2.50	1	05/01/2020 08:53	WG1468990
1,1-Dichloroethane	U		0.100	0.500	1	05/01/2020 08:53	WG1468990
1,2-Dichloroethane	U		0.0819	0.500	1	05/01/2020 08:53	WG1468990
1,1-Dichloroethene	U		0.188	0.500	1	05/01/2020 08:53	WG1468990
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/01/2020 08:53	WG1468990
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/01/2020 08:53	WG1468990
1,2-Dichloropropane	U		0.149	0.500	1	05/01/2020 08:53	WG1468990
1,1-Dichloropropene	U		0.142	0.500	1	05/01/2020 08:53	WG1468990
1,3-Dichloropropane	U		0.109	1.00	1	05/01/2020 08:53	WG1468990
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/01/2020 08:53	WG1468990
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/01/2020 08:53	WG1468990
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.467	5.00	1	05/01/2020 08:53	WG1468990
2,2-Dichloropropane	U		0.161	0.500	1	05/01/2020 08:53	WG1468990
Di-isopropyl ether	U		0.105	0.500	1	05/01/2020 08:53	WG1468990
Ethylbenzene	U		0.137	0.500	1	05/01/2020 08:53	WG1468990
Hexachloro-1,3-butadiene	U	<u>JO J4</u>	0.337	1.00	1	05/01/2020 08:53	WG1468990
2-Hexanone	U		0.787	5.00	1	05/01/2020 08:53	WG1468990
n-Hexane	U		0.749	5.00	1	05/01/2020 08:53	WG1468990
Iodomethane	U		6.00	10.0	1	05/01/2020 08:53	WG1468990
Isopropylbenzene	U		0.105	0.500	1	05/01/2020 08:53	WG1468990
p-Isopropyltoluene	U		0.120	0.500	1	05/01/2020 08:53	WG1468990
2-Butanone (MEK)	U		1.19	5.00	1	05/01/2020 08:53	WG1468990
Methylene Chloride	U		0.430	2.50	1	05/01/2020 08:53	WG1468990
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/01/2020 08:53	WG1468990
Methyl tert-butyl ether	U		0.101	0.500	1	05/01/2020 08:53	WG1468990
Naphthalene	U		0.174	2.50	1	05/01/2020 08:53	WG1468990
n-Propylbenzene	U		0.0993	0.500	1	05/01/2020 08:53	WG1468990
Styrene	U	<u>JO</u>	0.118	0.500	1	05/01/2020 08:53	WG1468990
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/01/2020 08:53	WG1468990
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/01/2020 08:53	WG1468990
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/01/2020 08:53	WG1468990
Tetrachloroethene	U		0.300	0.500	1	05/01/2020 08:53	WG1468990
Toluene	U		0.278	0.500	1	05/01/2020 08:53	WG1468990
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/05/2020 01:52	WG1470366
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.481	1.00	1	05/01/2020 08:53	WG1468990
1,1,1-Trichloroethane	U		0.149	0.500	1	05/01/2020 08:53	WG1468990
1,1,2-Trichloroethane	U		0.158	0.500	1	05/01/2020 08:53	WG1468990
Trichloroethene	U		0.190	0.500	1	05/01/2020 08:53	WG1468990
Trichlorofluoromethane	U		0.160	2.50	1	05/01/2020 08:53	WG1468990
1,2,3-Trichloropropane	U		0.237	2.50	1	05/01/2020 08:53	WG1468990
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/01/2020 08:53	WG1468990
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 08:53	WG1468990
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 08:53	WG1468990
Vinyl acetate	U	<u>JO</u>	0.692	5.00	1	05/01/2020 08:53	WG1468990
Vinyl chloride	U		0.234	0.500	1	05/01/2020 08:53	WG1468990
Xylenes, Total	U		0.174	1.50	1	05/01/2020 08:53	WG1468990
(S) Toluene-d8	101			80.0-120		05/01/2020 08:53	WG1468990
(S) Toluene-d8	107			80.0-120		05/05/2020 01:52	WG1470366
(S) 4-Bromofluorobenzene	93.8			77.0-126		05/01/2020 08:53	WG1468990
(S) 4-Bromofluorobenzene	99.6			77.0-126		05/05/2020 01:52	WG1470366

- 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) 1,2-Dichloroethane-d4	115			70.0-130		05/01/2020 08:53	WG1468990
(S) 1,2-Dichloroethane-d4	84.3			70.0-130		05/05/2020 01:52	WG1470366

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 date / time	Batch
Alkalinity	409000		8450	20000	1	04/29/2020 23:08	WG1466892

Sample Narrative:

L1212335-05 WG1466892: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	56700		379	1000	1	04/25/2020 15:02	WG1466208
Nitrate	U		48.0	100	1	04/25/2020 15:02	WG1466208
Sulfate	1080	J	594	5000	1	04/25/2020 15:02	WG1466208

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5570		102	1000	1	04/28/2020 15:31	WG1467393

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	2190		48.9	100	1	04/28/2020 15:25	WG1466908
Manganese	405		1.32	5.00	1	04/28/2020 15:25	WG1466908

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	88.2	B, J	31.6	100	1	04/28/2020 22:43	WG1467703
(S) a,a,a-Trifluorotoluene(FID)	106			78.0-120		04/28/2020 22:43	WG1467703

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	3720		0.287	0.678	1	05/05/2020 11:30	WG1470547
Ethane	61.4		0.296	1.29	1	05/05/2020 11:30	WG1470547
Ethene	U		0.422	1.27	1	05/05/2020 11:30	WG1470547

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		11.3	25.0	1	05/01/2020 09:13	WG1468990
Acrylonitrile	U		0.671	5.00	1	05/01/2020 09:13	WG1468990
Benzene	U		0.0941	0.500	1	05/01/2020 09:13	WG1468990
Bromobenzene	U		0.118	0.500	1	05/01/2020 09:13	WG1468990
Bromodichloromethane	U		0.136	0.500	1	05/01/2020 09:13	WG1468990
Bromochloromethane	U		0.128	0.500	1	05/01/2020 09:13	WG1468990
Bromoform	U		0.129	0.500	1	05/01/2020 09:13	WG1468990
Bromomethane	U	JO	0.605	2.50	1	05/01/2020 09:13	WG1468990
n-Butylbenzene	U		0.157	0.500	1	05/01/2020 09:13	WG1468990
sec-Butylbenzene	U		0.125	0.500	1	05/01/2020 09:13	WG1468990
tert-Butylbenzene	U		0.127	0.500	1	05/01/2020 09:13	WG1468990
Carbon disulfide	U		0.0962	0.500	1	05/01/2020 09:13	WG1468990
Carbon tetrachloride	U		0.128	0.500	1	05/01/2020 09:13	WG1468990

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	
Chlorobenzene	U		0.117	0.500	1	05/01/2020 09:13	WG1468990
Chlorodibromomethane	U		0.140	0.500	1	05/01/2020 09:13	WG1468990
Chloroethane	U		0.192	2.50	1	05/01/2020 09:13	WG1468990
Chloroform	U		0.111	0.500	1	05/01/2020 09:13	WG1468990
Chloromethane	U		0.960	1.25	1	05/01/2020 09:13	WG1468990
2-Chlorotoluene	U		0.106	0.500	1	05/01/2020 09:13	WG1468990
4-Chlorotoluene	U		0.114	0.500	1	05/01/2020 09:13	WG1468990
1,2-Dibromo-3-Chloropropane	U	JO	0.276	2.50	1	05/01/2020 09:13	WG1468990
1,2-Dibromoethane	U		0.126	0.500	1	05/01/2020 09:13	WG1468990
Dibromomethane	U		0.122	0.500	1	05/01/2020 09:13	WG1468990
1,2-Dichlorobenzene	U		0.107	0.500	1	05/01/2020 09:13	WG1468990
1,3-Dichlorobenzene	U		0.299	0.500	1	05/01/2020 09:13	WG1468990
1,4-Dichlorobenzene	U		0.120	0.500	1	05/01/2020 09:13	WG1468990
Dichlorodifluoromethane	U		0.374	2.50	1	05/01/2020 09:13	WG1468990
1,1-Dichloroethane	U		0.100	0.500	1	05/01/2020 09:13	WG1468990
1,2-Dichloroethane	U		0.0819	0.500	1	05/01/2020 09:13	WG1468990
1,1-Dichloroethene	U		0.188	0.500	1	05/01/2020 09:13	WG1468990
cis-1,2-Dichloroethene	0.135	J	0.126	0.500	1	05/01/2020 09:13	WG1468990
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/01/2020 09:13	WG1468990
1,2-Dichloropropane	U		0.149	0.500	1	05/01/2020 09:13	WG1468990
1,1-Dichloropropene	U		0.142	0.500	1	05/01/2020 09:13	WG1468990
1,3-Dichloropropane	U		0.109	1.00	1	05/01/2020 09:13	WG1468990
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/01/2020 09:13	WG1468990
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/01/2020 09:13	WG1468990
trans-1,4-Dichloro-2-butene	U	JO	0.467	5.00	1	05/01/2020 09:13	WG1468990
2,2-Dichloropropane	U		0.161	0.500	1	05/01/2020 09:13	WG1468990
Di-isopropyl ether	U		0.105	0.500	1	05/01/2020 09:13	WG1468990
Ethylbenzene	U		0.137	0.500	1	05/01/2020 09:13	WG1468990
Hexachloro-1,3-butadiene	U	JO J4	0.337	1.00	1	05/01/2020 09:13	WG1468990
2-Hexanone	U		0.787	5.00	1	05/01/2020 09:13	WG1468990
n-Hexane	U		0.749	5.00	1	05/01/2020 09:13	WG1468990
Iodomethane	U		6.00	10.0	1	05/01/2020 09:13	WG1468990
Isopropylbenzene	U		0.105	0.500	1	05/01/2020 09:13	WG1468990
p-Isopropyltoluene	U		0.120	0.500	1	05/01/2020 09:13	WG1468990
2-Butanone (MEK)	U		1.19	5.00	1	05/01/2020 09:13	WG1468990
Methylene Chloride	U		0.430	2.50	1	05/01/2020 09:13	WG1468990
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/01/2020 09:13	WG1468990
Methyl tert-butyl ether	U		0.101	0.500	1	05/01/2020 09:13	WG1468990
Naphthalene	U		0.174	2.50	1	05/01/2020 09:13	WG1468990
n-Propylbenzene	U		0.0993	0.500	1	05/01/2020 09:13	WG1468990
Styrene	U	JO	0.118	0.500	1	05/01/2020 09:13	WG1468990
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/01/2020 09:13	WG1468990
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/01/2020 09:13	WG1468990
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/01/2020 09:13	WG1468990
Tetrachloroethene	U		0.300	0.500	1	05/01/2020 09:13	WG1468990
Toluene	U		0.278	0.500	1	05/01/2020 09:13	WG1468990
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/05/2020 02:13	WG1470366
1,2,4-Trichlorobenzene	U	JO	0.481	1.00	1	05/01/2020 09:13	WG1468990
1,1,1-Trichloroethane	U		0.149	0.500	1	05/01/2020 09:13	WG1468990
1,1,2-Trichloroethane	U		0.158	0.500	1	05/01/2020 09:13	WG1468990
Trichloroethene	U		0.190	0.500	1	05/01/2020 09:13	WG1468990
Trichlorofluoromethane	U		0.160	2.50	1	05/01/2020 09:13	WG1468990
1,2,3-Trichloropropane	U		0.237	2.50	1	05/01/2020 09:13	WG1468990
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/01/2020 09:13	WG1468990
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 09:13	WG1468990
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 09:13	WG1468990

- 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
Vinyl acetate	U	<u>JO</u>	0.692	5.00	1	05/01/2020 09:13	WG1468990
Vinyl chloride	U		0.234	0.500	1	05/01/2020 09:13	WG1468990
Xylenes, Total	U		0.174	1.50	1	05/01/2020 09:13	WG1468990
(S) Toluene-d8	105			80.0-120		05/01/2020 09:13	WG1468990
(S) Toluene-d8	105			80.0-120		05/05/2020 02:13	WG1470366
(S) 4-Bromofluorobenzene	100			77.0-126		05/01/2020 09:13	WG1468990
(S) 4-Bromofluorobenzene	98.2			77.0-126		05/05/2020 02:13	WG1470366
(S) 1,2-Dichloroethane-d4	114			70.0-130		05/01/2020 09:13	WG1468990
(S) 1,2-Dichloroethane-d4	85.8			70.0-130		05/05/2020 02:13	WG1470366

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	498000		8450	20000	1	04/29/2020 23:17	WG1466892

Sample Narrative:

L1212335-06 WG1466892: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	39900		379	1000	1	04/25/2020 15:13	WG1466208
Nitrate	U		48.0	100	1	04/25/2020 15:13	WG1466208
Sulfate	47600		594	5000	1	04/25/2020 15:13	WG1466208

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)	16400		102	1000	1	04/28/2020 15:46	WG1467393

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	13100		48.9	100	1	04/29/2020 21:21	WG1467590
Manganese	1860		1.32	5.00	1	04/29/2020 21:21	WG1467590

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	756	<u>B</u>	31.6	100	1	04/28/2020 23:06	WG1467703
(S) a,a,a-Trifluorotoluene(FID)	106			78.0-120		04/28/2020 23:06	WG1467703

Sample Narrative:

L1212335-06 WG1467703: No discernable petroleum pattern present.

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	4700		0.287	0.678	1	04/29/2020 11:52	WG1467817
Ethane	62.9		0.296	1.29	1	04/29/2020 11:52	WG1467817
Ethene	109		0.422	1.27	1	04/29/2020 11:52	WG1467817

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		226	500	20	05/05/2020 08:31	WG1470366
Acrylonitrile	U	<u>JO</u>	13.4	100	20	05/05/2020 08:31	WG1470366
Benzene	U		1.88	10.0	20	05/05/2020 08:31	WG1470366
Bromobenzene	U		2.36	10.0	20	05/05/2020 08:31	WG1470366
Bromodichloromethane	U		2.72	10.0	20	05/05/2020 08:31	WG1470366
Bromochloromethane	U		2.56	10.0	20	05/05/2020 08:31	WG1470366
Bromoform	U		2.58	10.0	20	05/05/2020 08:31	WG1470366
Bromomethane	U		12.1	50.0	20	05/05/2020 08:31	WG1470366
n-Butylbenzene	U		3.14	10.0	20	05/05/2020 08:31	WG1470366
sec-Butylbenzene	U		2.50	10.0	20	05/05/2020 08:31	WG1470366

- 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
tert-Butylbenzene	U		2.54	10.0	20	05/05/2020 08:31	WG1470366
Carbon disulfide	U	JO	1.92	10.0	20	05/05/2020 08:31	WG1470366
Carbon tetrachloride	U		2.56	10.0	20	05/05/2020 08:31	WG1470366
Chlorobenzene	U		2.34	10.0	20	05/05/2020 08:31	WG1470366
Chlorodibromomethane	U		2.80	10.0	20	05/05/2020 08:31	WG1470366
Chloroethane	U		3.84	50.0	20	05/05/2020 08:31	WG1470366
Chloroform	U		2.22	10.0	20	05/05/2020 08:31	WG1470366
Chloromethane	U	JO	19.2	25.0	20	05/05/2020 08:31	WG1470366
2-Chlorotoluene	U		2.12	10.0	20	05/05/2020 08:31	WG1470366
4-Chlorotoluene	U		2.28	10.0	20	05/05/2020 08:31	WG1470366
1,2-Dibromo-3-Chloropropane	U	JO	5.52	50.0	20	05/05/2020 08:31	WG1470366
1,2-Dibromoethane	U		2.52	10.0	20	05/05/2020 08:31	WG1470366
Dibromomethane	U		2.44	10.0	20	05/05/2020 08:31	WG1470366
1,2-Dichlorobenzene	U		2.14	10.0	20	05/05/2020 08:31	WG1470366
1,3-Dichlorobenzene	U		5.98	10.0	20	05/05/2020 08:31	WG1470366
1,4-Dichlorobenzene	U		2.40	10.0	20	05/05/2020 08:31	WG1470366
Dichlorodifluoromethane	U		7.48	50.0	20	05/05/2020 08:31	WG1470366
1,1-Dichloroethane	U		2.00	10.0	20	05/05/2020 08:31	WG1470366
1,2-Dichloroethane	U	JO	1.64	10.0	20	05/05/2020 08:31	WG1470366
1,1-Dichloroethene	U		3.76	10.0	20	05/05/2020 08:31	WG1470366
cis-1,2-Dichloroethene	1040		2.52	10.0	20	05/05/2020 08:31	WG1470366
trans-1,2-Dichloroethene	8.86	J	2.98	10.0	20	05/05/2020 08:31	WG1470366
1,2-Dichloropropane	U		2.98	10.0	20	05/05/2020 08:31	WG1470366
1,1-Dichloropropene	U		2.84	10.0	20	05/05/2020 08:31	WG1470366
1,3-Dichloropropane	U		2.18	20.0	20	05/05/2020 08:31	WG1470366
cis-1,3-Dichloropropene	U		2.22	10.0	20	05/05/2020 08:31	WG1470366
trans-1,3-Dichloropropene	U		2.36	10.0	20	05/05/2020 08:31	WG1470366
trans-1,4-Dichloro-2-butene	U	JO	9.34	100	20	05/05/2020 08:31	WG1470366
2,2-Dichloropropane	U		3.22	10.0	20	05/05/2020 08:31	WG1470366
Di-isopropyl ether	U	JO	2.10	10.0	20	05/05/2020 08:31	WG1470366
Ethylbenzene	U		2.74	10.0	20	05/05/2020 08:31	WG1470366
Hexachloro-1,3-butadiene	U	JO	6.74	20.0	20	05/05/2020 08:31	WG1470366
2-Hexanone	U	JO	15.7	100	20	05/05/2020 08:31	WG1470366
n-Hexane	U	JO J4	15.0	100	20	05/05/2020 08:31	WG1470366
Iodomethane	U		11.1	100	20	05/05/2020 08:31	WG1470366
Isopropylbenzene	U		2.10	10.0	20	05/05/2020 08:31	WG1470366
p-Isopropyltoluene	U		2.40	10.0	20	05/05/2020 08:31	WG1470366
2-Butanone (MEK)	U	JO	23.8	100	20	05/05/2020 08:31	WG1470366
Methylene Chloride	U		8.60	50.0	20	05/05/2020 08:31	WG1470366
4-Methyl-2-pentanone (MIBK)	U	JO	9.56	100	20	05/05/2020 08:31	WG1470366
Methyl tert-butyl ether	U		2.02	10.0	20	05/05/2020 08:31	WG1470366
Naphthalene	U		3.48	50.0	20	05/05/2020 08:31	WG1470366
n-Propylbenzene	U		1.99	10.0	20	05/05/2020 08:31	WG1470366
Styrene	U		2.36	10.0	20	05/05/2020 08:31	WG1470366
1,1,1,2-Tetrachloroethane	U		2.94	10.0	20	05/05/2020 08:31	WG1470366
1,1,2,2-Tetrachloroethane	U		2.66	10.0	20	05/05/2020 08:31	WG1470366
1,1,2-Trichlorotrifluoroethane	U	JO	3.60	10.0	20	05/05/2020 08:31	WG1470366
Tetrachloroethene	U		6.00	10.0	20	05/05/2020 08:31	WG1470366
Toluene	U		5.56	10.0	20	05/05/2020 08:31	WG1470366
1,2,3-Trichlorobenzene	U		3.28	10.0	20	05/05/2020 08:31	WG1470366
1,2,4-Trichlorobenzene	U		9.62	20.0	20	05/05/2020 08:31	WG1470366
1,1,1-Trichloroethane	U		2.98	10.0	20	05/05/2020 08:31	WG1470366
1,1,2-Trichloroethane	U		3.16	10.0	20	05/05/2020 08:31	WG1470366
Trichloroethene	U		3.80	10.0	20	05/05/2020 08:31	WG1470366
Trichlorofluoromethane	U		3.20	50.0	20	05/05/2020 08:31	WG1470366
1,2,3-Trichloropropane	U		4.74	50.0	20	05/05/2020 08:31	WG1470366

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
1,2,4-Trimethylbenzene	U		6.44	10.0	20	05/05/2020 08:31	WG1470366
1,2,3-Trimethylbenzene	U		2.08	10.0	20	05/05/2020 08:31	WG1470366
1,3,5-Trimethylbenzene	U		2.08	10.0	20	05/05/2020 08:31	WG1470366
Vinyl acetate	U		13.8	100	20	05/05/2020 08:31	WG1470366
Vinyl chloride	980		4.68	10.0	20	05/05/2020 08:31	WG1470366
Xylenes, Total	U		3.48	30.0	20	05/05/2020 08:31	WG1470366
(S) Toluene-d8	108			80.0-120		05/05/2020 08:31	WG1470366
(S) 4-Bromofluorobenzene	101			77.0-126		05/05/2020 08:31	WG1470366
(S) 1,2-Dichloroethane-d4	86.0			70.0-130		05/05/2020 08:31	WG1470366

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	634000		8450	20000	1	04/29/2020 23:25	WG1466892

Sample Narrative:

L1212335-07 WG1466892: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	54800		379	1000	1	04/25/2020 15:24	WG1466208
Nitrate	U		48.0	100	1	04/25/2020 15:24	WG1466208
Sulfate	78000		594	5000	1	04/25/2020 15:24	WG1466208

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)	12500		102	1000	1	04/28/2020 17:26	WG1467393

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	6410		48.9	100	1	04/29/2020 21:25	WG1467590
Manganese	2330		1.32	5.00	1	04/29/2020 21:25	WG1467590

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	770		31.6	100	1	05/01/2020 13:19	WG1469249
(S) a,a,a-Trifluorotoluene(FID)	97.6			78.0-120		05/01/2020 13:19	WG1469249

Sample Narrative:

L1212335-07 WG1469249: No discernable petroleum pattern present.

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	1580		0.287	0.678	1	04/29/2020 11:55	WG1467817
Ethane	153		0.296	1.29	1	04/29/2020 11:55	WG1467817
Ethene	U		0.422	1.27	1	04/29/2020 11:55	WG1467817

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		565	1250	50	05/01/2020 13:20	WG1468990
Acrylonitrile	U		33.6	250	50	05/01/2020 13:20	WG1468990
Benzene	U		4.71	25.0	50	05/01/2020 13:20	WG1468990
Bromobenzene	U		5.90	25.0	50	05/01/2020 13:20	WG1468990
Bromodichloromethane	U		6.80	25.0	50	05/01/2020 13:20	WG1468990
Bromochloromethane	U		6.40	25.0	50	05/01/2020 13:20	WG1468990
Bromoform	U		6.45	25.0	50	05/01/2020 13:20	WG1468990
Bromomethane	U	<u>JO</u>	30.3	125	50	05/01/2020 13:20	WG1468990
n-Butylbenzene	U		7.85	25.0	50	05/01/2020 13:20	WG1468990
sec-Butylbenzene	U		6.25	25.0	50	05/01/2020 13:20	WG1468990

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	
tert-Butylbenzene	U		6.35	25.0	50	05/01/2020 13:20	WG1468990
Carbon disulfide	U		4.81	25.0	50	05/01/2020 13:20	WG1468990
Carbon tetrachloride	U		6.40	25.0	50	05/01/2020 13:20	WG1468990
Chlorobenzene	U		5.85	25.0	50	05/01/2020 13:20	WG1468990
Chlorodibromomethane	U		7.00	25.0	50	05/01/2020 13:20	WG1468990
Chloroethane	U		9.60	125	50	05/01/2020 13:20	WG1468990
Chloroform	U		5.55	25.0	50	05/01/2020 13:20	WG1468990
Chloromethane	U		48.0	62.5	50	05/01/2020 13:20	WG1468990
2-Chlorotoluene	U		5.30	25.0	50	05/01/2020 13:20	WG1468990
4-Chlorotoluene	U		5.70	25.0	50	05/01/2020 13:20	WG1468990
1,2-Dibromo-3-Chloropropane	U	JO	13.8	125	50	05/01/2020 13:20	WG1468990
1,2-Dibromoethane	U		6.30	25.0	50	05/01/2020 13:20	WG1468990
Dibromomethane	U		6.10	25.0	50	05/01/2020 13:20	WG1468990
1,2-Dichlorobenzene	U		5.35	25.0	50	05/01/2020 13:20	WG1468990
1,3-Dichlorobenzene	U		14.9	25.0	50	05/01/2020 13:20	WG1468990
1,4-Dichlorobenzene	U		6.00	25.0	50	05/01/2020 13:20	WG1468990
Dichlorodifluoromethane	U		18.7	125	50	05/01/2020 13:20	WG1468990
1,1-Dichloroethane	U		5.00	25.0	50	05/01/2020 13:20	WG1468990
1,2-Dichloroethane	U		4.09	25.0	50	05/01/2020 13:20	WG1468990
1,1-Dichloroethene	U		9.40	25.0	50	05/01/2020 13:20	WG1468990
cis-1,2-Dichloroethene	1240		6.30	25.0	50	05/01/2020 13:20	WG1468990
trans-1,2-Dichloroethene	U		7.45	25.0	50	05/01/2020 13:20	WG1468990
1,2-Dichloropropane	U		7.45	25.0	50	05/01/2020 13:20	WG1468990
1,1-Dichloropropene	U		7.10	25.0	50	05/01/2020 13:20	WG1468990
1,3-Dichloropropane	U		5.45	50.0	50	05/01/2020 13:20	WG1468990
cis-1,3-Dichloropropene	U		5.55	25.0	50	05/01/2020 13:20	WG1468990
trans-1,3-Dichloropropene	U		5.90	25.0	50	05/01/2020 13:20	WG1468990
trans-1,4-Dichloro-2-butene	U	JO	23.4	250	50	05/01/2020 13:20	WG1468990
2,2-Dichloropropane	U		8.05	25.0	50	05/01/2020 13:20	WG1468990
Di-isopropyl ether	U		5.25	25.0	50	05/01/2020 13:20	WG1468990
Ethylbenzene	U		6.85	25.0	50	05/01/2020 13:20	WG1468990
Hexachloro-1,3-butadiene	U	JO J4	16.9	50.0	50	05/01/2020 13:20	WG1468990
2-Hexanone	U		39.4	250	50	05/01/2020 13:20	WG1468990
n-Hexane	U		37.4	250	50	05/01/2020 13:20	WG1468990
Iodomethane	U		300	500	50	05/01/2020 13:20	WG1468990
Isopropylbenzene	U		5.25	25.0	50	05/01/2020 13:20	WG1468990
p-Isopropyltoluene	U		6.00	25.0	50	05/01/2020 13:20	WG1468990
2-Butanone (MEK)	U		59.5	250	50	05/01/2020 13:20	WG1468990
Methylene Chloride	U		21.5	125	50	05/01/2020 13:20	WG1468990
4-Methyl-2-pentanone (MIBK)	U		23.9	250	50	05/01/2020 13:20	WG1468990
Methyl tert-butyl ether	U		5.05	25.0	50	05/01/2020 13:20	WG1468990
Naphthalene	U		8.70	125	50	05/01/2020 13:20	WG1468990
n-Propylbenzene	U		4.97	25.0	50	05/01/2020 13:20	WG1468990
Styrene	U	JO	5.90	25.0	50	05/01/2020 13:20	WG1468990
1,1,1,2-Tetrachloroethane	U		7.35	25.0	50	05/01/2020 13:20	WG1468990
1,1,2,2-Tetrachloroethane	U		6.65	25.0	50	05/01/2020 13:20	WG1468990
1,1,2-Trichlorotrifluoroethane	U		9.00	25.0	50	05/01/2020 13:20	WG1468990
Tetrachloroethene	347		15.0	25.0	50	05/01/2020 13:20	WG1468990
Toluene	U		13.9	25.0	50	05/01/2020 13:20	WG1468990
1,2,3-Trichlorobenzene	U		8.20	25.0	50	05/05/2020 08:51	WG1470366
1,2,4-Trichlorobenzene	U	JO	24.1	50.0	50	05/01/2020 13:20	WG1468990
1,1,1-Trichloroethane	U		7.45	25.0	50	05/01/2020 13:20	WG1468990
1,1,2-Trichloroethane	U		7.90	25.0	50	05/01/2020 13:20	WG1468990
Trichloroethene	355		9.50	25.0	50	05/01/2020 13:20	WG1468990
Trichlorofluoromethane	U		8.00	125	50	05/01/2020 13:20	WG1468990
1,2,3-Trichloropropane	U		11.9	125	50	05/01/2020 13:20	WG1468990

- 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	
1,2,4-Trimethylbenzene	U		16.1	25.0	50	05/01/2020 13:20	WG1468990
1,2,3-Trimethylbenzene	U		5.20	25.0	50	05/01/2020 13:20	WG1468990
1,3,5-Trimethylbenzene	U		5.20	25.0	50	05/01/2020 13:20	WG1468990
Vinyl acetate	U	<u>JO</u>	34.6	250	50	05/01/2020 13:20	WG1468990
Vinyl chloride	104		11.7	25.0	50	05/01/2020 13:20	WG1468990
Xylenes, Total	U		8.70	75.0	50	05/01/2020 13:20	WG1468990
(S) Toluene-d8	102			80.0-120		05/01/2020 13:20	WG1468990
(S) Toluene-d8	109			80.0-120		05/05/2020 08:51	WG1470366
(S) 4-Bromofluorobenzene	90.9			77.0-126		05/01/2020 13:20	WG1468990
(S) 4-Bromofluorobenzene	96.3			77.0-126		05/05/2020 08:51	WG1470366
(S) 1,2-Dichloroethane-d4	116			70.0-130		05/01/2020 13:20	WG1468990
(S) 1,2-Dichloroethane-d4	84.3			70.0-130		05/05/2020 08:51	WG1470366

- 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	608000		8450	20000	1	04/29/2020 23:33	WG1466892

Sample Narrative:

L1212335-08 WG1466892: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	49900		379	1000	1	04/25/2020 16:07	WG1466208
Nitrate	U		48.0	100	1	04/25/2020 16:07	WG1466208
Sulfate	64400		594	5000	1	04/25/2020 16:07	WG1466208

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)	12000		102	1000	1	04/28/2020 17:42	WG1467393

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	8480		48.9	100	1	04/29/2020 21:28	WG1467590
Manganese	1870		1.32	5.00	1	04/29/2020 21:28	WG1467590

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	5890		0.287	0.678	1	04/29/2020 13:01	WG1467817
Ethane	50.5		0.296	1.29	1	04/29/2020 13:01	WG1467817
Ethene	114		0.422	1.27	1	04/29/2020 13:01	WG1467817

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		565	1250	50	05/01/2020 13:41	WG1468990
Acrylonitrile	U		33.6	250	50	05/01/2020 13:41	WG1468990
Benzene	U		4.71	25.0	50	05/01/2020 13:41	WG1468990
Bromobenzene	U		5.90	25.0	50	05/01/2020 13:41	WG1468990
Bromodichloromethane	U		6.80	25.0	50	05/01/2020 13:41	WG1468990
Bromochloromethane	U		6.40	25.0	50	05/01/2020 13:41	WG1468990
Bromoform	U		6.45	25.0	50	05/01/2020 13:41	WG1468990
Bromomethane	U	<u>JO</u>	30.3	125	50	05/01/2020 13:41	WG1468990
n-Butylbenzene	U		7.85	25.0	50	05/01/2020 13:41	WG1468990
sec-Butylbenzene	U		6.25	25.0	50	05/01/2020 13:41	WG1468990
tert-Butylbenzene	U		6.35	25.0	50	05/01/2020 13:41	WG1468990
Carbon disulfide	U		4.81	25.0	50	05/01/2020 13:41	WG1468990
Carbon tetrachloride	U		6.40	25.0	50	05/01/2020 13:41	WG1468990
Chlorobenzene	U		5.85	25.0	50	05/01/2020 13:41	WG1468990
Chlorodibromomethane	U		7.00	25.0	50	05/01/2020 13:41	WG1468990
Chloroethane	U		9.60	125	50	05/01/2020 13:41	WG1468990
Chloroform	U		5.55	25.0	50	05/01/2020 13:41	WG1468990
Chloromethane	U		48.0	62.5	50	05/01/2020 13:41	WG1468990
2-Chlorotoluene	U		5.30	25.0	50	05/01/2020 13:41	WG1468990
4-Chlorotoluene	U		5.70	25.0	50	05/01/2020 13:41	WG1468990

- 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
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	13.8	125	50	05/01/2020 13:41	WG1468990
1,2-Dibromoethane	U		6.30	25.0	50	05/01/2020 13:41	WG1468990
Dibromomethane	U		6.10	25.0	50	05/01/2020 13:41	WG1468990
1,2-Dichlorobenzene	U		5.35	25.0	50	05/01/2020 13:41	WG1468990
1,3-Dichlorobenzene	U		14.9	25.0	50	05/01/2020 13:41	WG1468990
1,4-Dichlorobenzene	U		6.00	25.0	50	05/01/2020 13:41	WG1468990
Dichlorodifluoromethane	U		18.7	125	50	05/01/2020 13:41	WG1468990
1,1-Dichloroethane	U		5.00	25.0	50	05/01/2020 13:41	WG1468990
1,2-Dichloroethane	U		4.09	25.0	50	05/01/2020 13:41	WG1468990
1,1-Dichloroethene	U		9.40	25.0	50	05/01/2020 13:41	WG1468990
cis-1,2-Dichloroethene	8520		6.30	25.0	50	05/01/2020 13:41	WG1468990
trans-1,2-Dichloroethene	16.8	<u>J</u>	7.45	25.0	50	05/01/2020 13:41	WG1468990
1,2-Dichloropropane	U		7.45	25.0	50	05/01/2020 13:41	WG1468990
1,1-Dichloropropene	U		7.10	25.0	50	05/01/2020 13:41	WG1468990
1,3-Dichloropropane	U		5.45	50.0	50	05/01/2020 13:41	WG1468990
cis-1,3-Dichloropropene	U		5.55	25.0	50	05/01/2020 13:41	WG1468990
trans-1,3-Dichloropropene	U		5.90	25.0	50	05/01/2020 13:41	WG1468990
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	23.4	250	50	05/01/2020 13:41	WG1468990
2,2-Dichloropropane	U		8.05	25.0	50	05/01/2020 13:41	WG1468990
Di-isopropyl ether	U		5.25	25.0	50	05/01/2020 13:41	WG1468990
Ethylbenzene	U		6.85	25.0	50	05/01/2020 13:41	WG1468990
Hexachloro-1,3-butadiene	U	<u>JO J4</u>	16.9	50.0	50	05/01/2020 13:41	WG1468990
2-Hexanone	U		39.4	250	50	05/01/2020 13:41	WG1468990
n-Hexane	U		37.4	250	50	05/01/2020 13:41	WG1468990
Iodomethane	U		300	500	50	05/01/2020 13:41	WG1468990
Isopropylbenzene	U		5.25	25.0	50	05/01/2020 13:41	WG1468990
p-Isopropyltoluene	U		6.00	25.0	50	05/01/2020 13:41	WG1468990
2-Butanone (MEK)	U		59.5	250	50	05/01/2020 13:41	WG1468990
Methylene Chloride	U		21.5	125	50	05/01/2020 13:41	WG1468990
4-Methyl-2-pentanone (MIBK)	U		23.9	250	50	05/01/2020 13:41	WG1468990
Methyl tert-butyl ether	U		5.05	25.0	50	05/01/2020 13:41	WG1468990
Naphthalene	U		8.70	125	50	05/01/2020 13:41	WG1468990
n-Propylbenzene	U		4.97	25.0	50	05/01/2020 13:41	WG1468990
Styrene	U	<u>JO</u>	5.90	25.0	50	05/01/2020 13:41	WG1468990
1,1,1,2-Tetrachloroethane	U		7.35	25.0	50	05/01/2020 13:41	WG1468990
1,1,2,2-Tetrachloroethane	U		6.65	25.0	50	05/01/2020 13:41	WG1468990
1,1,2-Trichlorotrifluoroethane	U		9.00	25.0	50	05/01/2020 13:41	WG1468990
Tetrachloroethene	U		15.0	25.0	50	05/01/2020 13:41	WG1468990
Toluene	U		13.9	25.0	50	05/01/2020 13:41	WG1468990
1,2,3-Trichlorobenzene	U		8.20	25.0	50	05/05/2020 09:11	WG1470366
1,2,4-Trichlorobenzene	U	<u>JO</u>	24.1	50.0	50	05/01/2020 13:41	WG1468990
1,1,1-Trichloroethane	U		7.45	25.0	50	05/01/2020 13:41	WG1468990
1,1,2-Trichloroethane	U		7.90	25.0	50	05/01/2020 13:41	WG1468990
Trichloroethene	U		9.50	25.0	50	05/01/2020 13:41	WG1468990
Trichlorofluoromethane	U		8.00	125	50	05/01/2020 13:41	WG1468990
1,2,3-Trichloropropane	U		11.9	125	50	05/01/2020 13:41	WG1468990
1,2,4-Trimethylbenzene	U		16.1	25.0	50	05/01/2020 13:41	WG1468990
1,2,3-Trimethylbenzene	U		5.20	25.0	50	05/01/2020 13:41	WG1468990
1,3,5-Trimethylbenzene	U		5.20	25.0	50	05/01/2020 13:41	WG1468990
Vinyl acetate	U	<u>JO</u>	34.6	250	50	05/01/2020 13:41	WG1468990
Vinyl chloride	362		11.7	25.0	50	05/01/2020 13:41	WG1468990
Xylenes, Total	U		8.70	75.0	50	05/01/2020 13:41	WG1468990
(S) Toluene-d8	102			80.0-120		05/01/2020 13:41	WG1468990
(S) Toluene-d8	109			80.0-120		05/05/2020 09:11	WG1470366
(S) 4-Bromofluorobenzene	94.0			77.0-126		05/01/2020 13:41	WG1468990
(S) 4-Bromofluorobenzene	96.7			77.0-126		05/05/2020 09:11	WG1470366

- 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) 1,2-Dichloroethane-d4	111			70.0-130		05/01/2020 13:41	WG1468990
(S) 1,2-Dichloroethane-d4	83.9			70.0-130		05/05/2020 09:11	WG1470366

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	864000		8450	20000	1	04/29/2020 23:41	WG1466892

Sample Narrative:

L1212335-09 WG1466892: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	17800		379	1000	1	04/25/2020 16:29	WG1466208
Nitrate	U		48.0	100	1	04/25/2020 16:29	WG1466208
Sulfate	2480	J	594	5000	1	04/25/2020 16:29	WG1466208

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)	6690		102	1000	1	04/28/2020 17:58	WG1467393

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	13800		48.9	100	1	04/29/2020 21:50	WG1467590
Manganese	840		1.32	5.00	1	04/29/2020 21:50	WG1467590

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	23300		2.87	6.78	10	04/30/2020 13:18	WG1468509
Ethane	U		0.296	1.29	1	04/29/2020 13:04	WG1467817
Ethene	U		0.422	1.27	1	04/29/2020 13:04	WG1467817

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		11.3	25.0	1	05/01/2020 09:34	WG1468990
Acrylonitrile	U		0.671	5.00	1	05/01/2020 09:34	WG1468990
Benzene	U		0.0941	0.500	1	05/01/2020 09:34	WG1468990
Bromobenzene	U		0.118	0.500	1	05/01/2020 09:34	WG1468990
Bromodichloromethane	U		0.136	0.500	1	05/01/2020 09:34	WG1468990
Bromochloromethane	U		0.128	0.500	1	05/01/2020 09:34	WG1468990
Bromoform	U		0.129	0.500	1	05/01/2020 09:34	WG1468990
Bromomethane	U	JO	0.605	2.50	1	05/01/2020 09:34	WG1468990
n-Butylbenzene	U		0.157	0.500	1	05/01/2020 09:34	WG1468990
sec-Butylbenzene	U		0.125	0.500	1	05/01/2020 09:34	WG1468990
tert-Butylbenzene	U		0.127	0.500	1	05/01/2020 09:34	WG1468990
Carbon disulfide	U		0.0962	0.500	1	05/01/2020 09:34	WG1468990
Carbon tetrachloride	U		0.128	0.500	1	05/01/2020 09:34	WG1468990
Chlorobenzene	U		0.117	0.500	1	05/01/2020 09:34	WG1468990
Chlorodibromomethane	U		0.140	0.500	1	05/01/2020 09:34	WG1468990
Chloroethane	U		0.192	2.50	1	05/01/2020 09:34	WG1468990
Chloroform	U		0.111	0.500	1	05/01/2020 09:34	WG1468990
Chloromethane	U		0.960	1.25	1	05/01/2020 09:34	WG1468990
2-Chlorotoluene	U		0.106	0.500	1	05/01/2020 09:34	WG1468990
4-Chlorotoluene	U		0.114	0.500	1	05/01/2020 09:34	WG1468990

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	
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.276	2.50	1	05/01/2020 09:34	WG1468990
1,2-Dibromoethane	U		0.126	0.500	1	05/01/2020 09:34	WG1468990
Dibromomethane	U		0.122	0.500	1	05/01/2020 09:34	WG1468990
1,2-Dichlorobenzene	U		0.107	0.500	1	05/01/2020 09:34	WG1468990
1,3-Dichlorobenzene	U		0.299	0.500	1	05/01/2020 09:34	WG1468990
1,4-Dichlorobenzene	U		0.120	0.500	1	05/01/2020 09:34	WG1468990
Dichlorodifluoromethane	U		0.374	2.50	1	05/01/2020 09:34	WG1468990
1,1-Dichloroethane	U		0.100	0.500	1	05/01/2020 09:34	WG1468990
1,2-Dichloroethane	U		0.0819	0.500	1	05/01/2020 09:34	WG1468990
1,1-Dichloroethene	U		0.188	0.500	1	05/01/2020 09:34	WG1468990
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/01/2020 09:34	WG1468990
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/01/2020 09:34	WG1468990
1,2-Dichloropropane	U		0.149	0.500	1	05/01/2020 09:34	WG1468990
1,1-Dichloropropene	U		0.142	0.500	1	05/01/2020 09:34	WG1468990
1,3-Dichloropropane	U		0.109	1.00	1	05/01/2020 09:34	WG1468990
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/01/2020 09:34	WG1468990
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/01/2020 09:34	WG1468990
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.467	5.00	1	05/01/2020 09:34	WG1468990
2,2-Dichloropropane	U		0.161	0.500	1	05/01/2020 09:34	WG1468990
Di-isopropyl ether	U		0.105	0.500	1	05/01/2020 09:34	WG1468990
Ethylbenzene	U		0.137	0.500	1	05/01/2020 09:34	WG1468990
Hexachloro-1,3-butadiene	U	<u>JO J4</u>	0.337	1.00	1	05/01/2020 09:34	WG1468990
2-Hexanone	U		0.787	5.00	1	05/01/2020 09:34	WG1468990
n-Hexane	U		0.749	5.00	1	05/01/2020 09:34	WG1468990
Iodomethane	U		6.00	10.0	1	05/01/2020 09:34	WG1468990
Isopropylbenzene	U		0.105	0.500	1	05/01/2020 09:34	WG1468990
p-Isopropyltoluene	U		0.120	0.500	1	05/01/2020 09:34	WG1468990
2-Butanone (MEK)	U		1.19	5.00	1	05/01/2020 09:34	WG1468990
Methylene Chloride	U		0.430	2.50	1	05/01/2020 09:34	WG1468990
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/01/2020 09:34	WG1468990
Methyl tert-butyl ether	U		0.101	0.500	1	05/01/2020 09:34	WG1468990
Naphthalene	U		0.174	2.50	1	05/01/2020 09:34	WG1468990
n-Propylbenzene	U		0.0993	0.500	1	05/01/2020 09:34	WG1468990
Styrene	U	<u>JO</u>	0.118	0.500	1	05/01/2020 09:34	WG1468990
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/01/2020 09:34	WG1468990
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/01/2020 09:34	WG1468990
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/01/2020 09:34	WG1468990
Tetrachloroethene	U		0.300	0.500	1	05/01/2020 09:34	WG1468990
Toluene	U		0.278	0.500	1	05/01/2020 09:34	WG1468990
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/05/2020 02:33	WG1470366
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.481	1.00	1	05/01/2020 09:34	WG1468990
1,1,1-Trichloroethane	U		0.149	0.500	1	05/01/2020 09:34	WG1468990
1,1,2-Trichloroethane	U		0.158	0.500	1	05/01/2020 09:34	WG1468990
Trichloroethene	U		0.190	0.500	1	05/01/2020 09:34	WG1468990
Trichlorofluoromethane	U		0.160	2.50	1	05/01/2020 09:34	WG1468990
1,2,3-Trichloropropane	U		0.237	2.50	1	05/01/2020 09:34	WG1468990
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/01/2020 09:34	WG1468990
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 09:34	WG1468990
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 09:34	WG1468990
Vinyl acetate	U	<u>JO</u>	0.692	5.00	1	05/01/2020 09:34	WG1468990
Vinyl chloride	U		0.234	0.500	1	05/01/2020 09:34	WG1468990
Xylenes, Total	U		0.174	1.50	1	05/01/2020 09:34	WG1468990
(S) Toluene-d8	105			80.0-120		05/01/2020 09:34	WG1468990
(S) Toluene-d8	108			80.0-120		05/05/2020 02:33	WG1470366
(S) 4-Bromofluorobenzene	97.6			77.0-126		05/01/2020 09:34	WG1468990
(S) 4-Bromofluorobenzene	99.4			77.0-126		05/05/2020 02:33	WG1470366

- 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) 1,2-Dichloroethane-d4	114			70.0-130		05/01/2020 09:34	WG1468990
(S) 1,2-Dichloroethane-d4	85.9			70.0-130		05/05/2020 02:33	WG1470366

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3523320-1 04/29/20 22:24

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1212410-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1212410-01 04/29/20 23:59 • (DUP) R3523320-3 04/30/20 00:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	286000	287000	1	0.291		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

L1212410-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1212410-11 04/30/20 01:42 • (DUP) R3523320-4 04/30/20 02:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	752000	774000	1	2.98		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3523320-2 04/29/20 23:49

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	105000	105	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3521994-1 04/25/20 09:02

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		379	1000
Nitrate	U		48.0	100
Sulfate	U		594	5000

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1212335-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1212335-01 04/25/20 13:46 • (DUP) R3521994-3 04/25/20 13:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	23900	23800	1	0.456		15
Nitrate	U	0.000	1	0.000		15
Sulfate	13000	13000	1	0.464		15

L1212335-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1212335-07 04/25/20 15:24 • (DUP) R3521994-6 04/25/20 15:56

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	54800	54900	1	0.131		15
Nitrate	U	0.000	1	0.000		15
Sulfate	78000	78000	1	0.0435		15

Laboratory Control Sample (LCS)

(LCS) R3521994-2 04/25/20 09:13

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40000	38800	97.1	80.0-120	
Nitrate	8000	7990	99.9	80.0-120	
Sulfate	40000	37600	94.1	80.0-120	



L1212335-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1212335-02 04/25/20 14:08 • (MS) R3521994-4 04/25/20 14:19 • (MSD) R3521994-5 04/25/20 14:30

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 %
Chloride	50000	17500	66400	66400	97.9	97.8	1	80.0-120			0.0581	15
Nitrate	5000	69.5	4610	4640	90.9	91.5	1	80.0-120			0.644	15
Sulfate	50000	22600	71400	69900	97.6	94.6	1	80.0-120			2.16	15

L1212335-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1212335-08 04/25/20 16:07 • (MS) R3521994-7 04/25/20 16:18

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	49900	96600	93.3	1	80.0-120	
Nitrate	5000	U	4720	94.4	1	80.0-120	
Sulfate	50000	64400	111000	93.3	1	80.0-120	E

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



Method Blank (MB)

(MB) R3523086-1 04/28/20 13:04

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	173	↓	102	1000

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1212335-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1212335-06 04/28/20 15:46 • (DUP) R3523086-3 04/28/20 16:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	16400	16400	1	0.183		20

L1212335-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1212335-09 04/28/20 17:58 • (DUP) R3523086-4 04/28/20 18:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	6690	6690	1	0.0150		20

Laboratory Control Sample (LCS)

(LCS) R3523086-2 04/28/20 13:38

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	72800	97.1	85.0-115	

L1212453-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1212453-01 04/28/20 19:19 • (MS) R3523086-5 04/28/20 19:36 • (MSD) R3523086-6 04/28/20 19:53

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	346	49300	49300	97.8	98.0	1	80.0-120			0.162	20

L1212453-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1212453-07 04/28/20 22:23 • (MS) R3523086-7 04/28/20 22:43 • (MSD) R3523086-8 04/28/20 23:04

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	463	50500	51600	100	102	1	80.0-120			2.29	20



Method Blank (MB)

(MB) R3522729-1 04/28/20 13:47

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		48.9	100
Manganese	U		1.32	5.00

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3522729-2 04/28/20 13:50

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron	5000	4860	97.2	80.0-120	
Manganese	50.0	48.4	96.8	80.0-120	

5 Sr

6 Qc

L1212335-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1212335-03 04/28/20 13:53 • (MS) R3522729-4 04/28/20 14:00 • (MSD) R3522729-5 04/28/20 14:03

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	9660	14600	14500	99.7	96.8	1	75.0-125			1.01	20
Manganese	50.0	809	845	854	73.6	90.6	1	75.0-125	V		0.998	20

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3523294-1 04/29/20 21:02

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		48.9	100
Manganese	U		1.32	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) R3523294-2 04/29/20 21:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron	5000	5330	107	80.0-120	
Manganese	50.0	51.7	103	80.0-120	

L1212350-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1212350-06 04/29/20 21:08 • (MS) R3523294-4 04/29/20 21:15 • (MSD) R3523294-5 04/29/20 21:18

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	5330	5250	107	105	1	75.0-125			1.59	20
Manganese	50.0	U	50.6	51.5	101	103	1	75.0-125			1.77	20



Method Blank (MB)

(MB) R3522915-3 04/28/20 18:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	94.4	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	106			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3522915-2 04/28/20 17:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	6050	110	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			95.5	78.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3523882-2 05/01/20 03:55

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	70.0	↓	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	97.5			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3523882-1 05/01/20 03:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	4980	90.5	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			103	78.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3523059-2 04/29/20 10:51

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1211929-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1211929-06 04/29/20 11:22 • (DUP) R3523059-3 04/29/20 11:33

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

L1211929-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1211929-08 04/29/20 13:08 • (DUP) R3523059-4 04/29/20 13:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	69.8	81.5	1	15.5		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

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

(LCS) R3523059-1 04/29/20 10:40 • (LCSD) R3523059-5 04/29/20 13:16

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	62.7	60.0	92.5	88.5	85.0-115			4.40	20
Ethane	129	125	123	96.9	95.3	85.0-115			1.61	20
Ethene	127	118	117	92.9	92.1	85.0-115			0.851	20



Method Blank (MB)

(MB) R3523568-2 04/30/20 13:04

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Methane	U		0.287	0.678

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1213148-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1213148-04 04/30/20 13:37 • (DUP) R3523568-3 04/30/20 13:52

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

L1213161-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1213161-09 04/30/20 14:15 • (DUP) R3523568-4 04/30/20 14:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Methane	1110	1210	1	8.62		20

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

(LCS) R3523568-1 04/30/20 12:56 • (LCSD) R3523568-5 04/30/20 14:46

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	63.6	95.7	93.8	85.0-115			2.02	20



Method Blank (MB)

(MB) R3524769-2 05/05/20 11:02

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1212335-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1212335-05 05/05/20 11:30 • (DUP) R3524769-3 05/05/20 11:52

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	3720	3900	1	4.72		20
Ethane	61.4	66.3	1	7.67		20
Ethene	U	0.000	1	0.000		20

L1213607-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1213607-05 05/05/20 12:46 • (DUP) R3524769-4 05/05/20 13:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	1080	1080	1	0.000		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

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

(LCS) R3524769-1 05/05/20 09:33 • (LCSD) R3524769-5 05/05/20 13:13

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	65.5	65.7	96.6	96.9	85.0-115			0.305	20
Ethane	129	128	125	99.2	96.9	85.0-115			2.37	20
Ethene	127	123	120	96.9	94.5	85.0-115			2.47	20



Method Blank (MB)

(MB) R3524427-2 05/01/20 06:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromochloromethane	U		0.128	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
trans-1,4-Dichloro-2-butene	U		0.467	5.00
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3524427-2 05/01/20 06:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	0.500
Hexachloro-1,3-butadiene	0.901	U	0.337	1.00
2-Hexanone	U		0.787	5.00
n-Hexane	U		0.749	5.00
Iodomethane	U		6.00	10.0
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	1.45	U	0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,2,4-Trichlorobenzene	0.764	U	0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	0.500
1,2,3-Trimethylbenzene	U		0.104	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl acetate	U		0.692	5.00
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	101			80.0-120
(S) 4-Bromofluorobenzene	90.1			77.0-126
(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)

(LCS) R3524427-1 05/01/20 05:38

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	25.0	32.3	129	19.0-160	
Acrylonitrile	25.0	26.1	104	55.0-149	
Benzene	5.00	4.71	94.2	70.0-123	
Bromobenzene	5.00	5.18	104	73.0-121	
Bromodichloromethane	5.00	5.04	101	75.0-120	
Bromochloromethane	5.00	5.00	100	76.0-122	
Bromoform	5.00	4.06	81.2	68.0-132	
Bromomethane	5.00	3.55	71.0	10.0-160	
n-Butylbenzene	5.00	4.72	94.4	73.0-125	
sec-Butylbenzene	5.00	4.99	99.8	75.0-125	
tert-Butylbenzene	5.00	4.96	99.2	76.0-124	
Carbon disulfide	5.00	4.58	91.6	61.0-128	
Carbon tetrachloride	5.00	5.07	101	68.0-126	
Chlorobenzene	5.00	4.37	87.4	80.0-121	
Chlorodibromomethane	5.00	4.70	94.0	77.0-125	
Chloroethane	5.00	4.36	87.2	47.0-150	
Chloroform	5.00	4.76	95.2	73.0-120	
Chloromethane	5.00	5.03	101	41.0-142	
2-Chlorotoluene	5.00	5.33	107	76.0-123	
4-Chlorotoluene	5.00	5.38	108	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	3.57	71.4	58.0-134	
1,2-Dibromoethane	5.00	4.58	91.6	80.0-122	
Dibromomethane	5.00	4.96	99.2	80.0-120	
1,2-Dichlorobenzene	5.00	4.15	83.0	79.0-121	
1,3-Dichlorobenzene	5.00	4.23	84.6	79.0-120	
1,4-Dichlorobenzene	5.00	4.30	86.0	79.0-120	
Dichlorodifluoromethane	5.00	5.72	114	51.0-149	
1,1-Dichloroethane	5.00	5.37	107	70.0-126	
1,2-Dichloroethane	5.00	5.38	108	70.0-128	
1,1-Dichloroethene	5.00	4.81	96.2	71.0-124	
cis-1,2-Dichloroethene	5.00	5.36	107	73.0-120	
trans-1,2-Dichloroethene	5.00	4.89	97.8	73.0-120	
1,2-Dichloropropane	5.00	4.95	99.0	77.0-125	
1,1-Dichloropropene	5.00	4.84	96.8	74.0-126	
1,3-Dichloropropane	5.00	4.64	92.8	80.0-120	
cis-1,3-Dichloropropene	5.00	5.08	102	80.0-123	
trans-1,3-Dichloropropene	5.00	4.80	96.0	78.0-124	
trans-1,4-Dichloro-2-butene	5.00	3.25	65.0	33.0-144	
2,2-Dichloropropane	5.00	5.27	105	58.0-130	
Di-isopropyl ether	5.00	5.36	107	58.0-138	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3524427-1 05/01/20 05:38

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	5.00	4.28	85.6	79.0-123	
Hexachloro-1,3-butadiene	5.00	2.49	49.8	54.0-138	J4
2-Hexanone	25.0	23.8	95.2	67.0-149	
n-Hexane	5.00	4.25	85.0	57.0-133	
Iodomethane	25.0	24.2	96.8	33.0-147	
Isopropylbenzene	5.00	4.47	89.4	76.0-127	
p-Isopropyltoluene	5.00	4.86	97.2	76.0-125	
2-Butanone (MEK)	25.0	27.7	111	44.0-160	
Methylene Chloride	5.00	4.85	97.0	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	28.1	112	68.0-142	
Methyl tert-butyl ether	5.00	5.01	100	68.0-125	
Naphthalene	5.00	4.25	85.0	54.0-135	
n-Propylbenzene	5.00	5.36	107	77.0-124	
Styrene	5.00	3.83	76.6	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	4.89	97.8	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	5.36	107	65.0-130	
1,1,2-Trichlorotrifluoroethane	5.00	4.67	93.4	69.0-132	
Tetrachloroethene	5.00	5.07	101	72.0-132	
Toluene	5.00	4.45	89.0	79.0-120	
1,2,4-Trichlorobenzene	5.00	3.24	64.8	57.0-137	
1,1,1-Trichloroethane	5.00	5.18	104	73.0-124	
1,1,2-Trichloroethane	5.00	4.75	95.0	80.0-120	
Trichloroethene	5.00	5.47	109	78.0-124	
Trichlorofluoromethane	5.00	5.45	109	59.0-147	
1,2,3-Trichloropropane	5.00	5.32	106	73.0-130	
1,2,4-Trimethylbenzene	5.00	5.02	100	76.0-121	
1,2,3-Trimethylbenzene	5.00	4.63	92.6	77.0-120	
1,3,5-Trimethylbenzene	5.00	5.20	104	76.0-122	
Vinyl acetate	25.0	17.4	69.6	11.0-160	
Vinyl chloride	5.00	4.31	86.2	67.0-131	
Xylenes, Total	15.0	13.0	86.7	79.0-123	
(S) Toluene-d8			98.2	80.0-120	
(S) 4-Bromofluorobenzene			95.4	77.0-126	
(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



Method Blank (MB)

(MB) R3524660-2 05/04/20 20:37

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromochloromethane	U		0.128	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
trans-1,4-Dichloro-2-butene	U		0.467	5.00
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3524660-2 05/04/20 20:37

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	0.500
Hexachloro-1,3-butadiene	U		0.337	1.00
2-Hexanone	U		0.787	5.00
n-Hexane	U		0.749	5.00
Iodomethane	U		0.554	5.00
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	0.500
1,2,3-Trimethylbenzene	U		0.104	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl acetate	U		0.692	5.00
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	110			80.0-120
(S) 4-Bromofluorobenzene	101			77.0-126
(S) 1,2-Dichloroethane-d4	85.4			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) R3524660-1 05/04/20 19:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	25.0	20.0	80.0	19.0-160	
Acrylonitrile	25.0	16.0	64.0	55.0-149	
Benzene	5.00	5.00	100	70.0-123	
Bromobenzene	5.00	4.34	86.8	73.0-121	
Bromodichloromethane	5.00	4.70	94.0	75.0-120	
Bromochloromethane	5.00	5.24	105	76.0-122	
Bromoform	5.00	5.27	105	68.0-132	
Bromomethane	5.00	5.49	110	10.0-160	
n-Butylbenzene	5.00	4.93	98.6	73.0-125	
sec-Butylbenzene	5.00	4.83	96.6	75.0-125	
tert-Butylbenzene	5.00	4.79	95.8	76.0-124	
Carbon disulfide	5.00	3.74	74.8	61.0-128	
Carbon tetrachloride	5.00	4.35	87.0	68.0-126	
Chlorobenzene	5.00	5.58	112	80.0-121	
Chlorodibromomethane	5.00	5.04	101	77.0-125	
Chloroethane	5.00	4.48	89.6	47.0-150	
Chloroform	5.00	4.45	89.0	73.0-120	
Chloromethane	5.00	3.17	63.4	41.0-142	
2-Chlorotoluene	5.00	4.66	93.2	76.0-123	
4-Chlorotoluene	5.00	4.92	98.4	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	3.79	75.8	58.0-134	
1,2-Dibromoethane	5.00	5.64	113	80.0-122	
Dibromomethane	5.00	5.29	106	80.0-120	
1,2-Dichlorobenzene	5.00	4.88	97.6	79.0-121	
1,3-Dichlorobenzene	5.00	5.26	105	79.0-120	
1,4-Dichlorobenzene	5.00	4.78	95.6	79.0-120	
Dichlorodifluoromethane	5.00	4.85	97.0	51.0-149	
1,1-Dichloroethane	5.00	4.03	80.6	70.0-126	
1,2-Dichloroethane	5.00	3.74	74.8	70.0-128	
1,1-Dichloroethene	5.00	4.27	85.4	71.0-124	
cis-1,2-Dichloroethene	5.00	5.25	105	73.0-120	
trans-1,2-Dichloroethene	5.00	5.09	102	73.0-120	
1,2-Dichloropropane	5.00	4.06	81.2	77.0-125	
1,1-Dichloropropene	5.00	4.73	94.6	74.0-126	
1,3-Dichloropropane	5.00	5.71	114	80.0-120	
cis-1,3-Dichloropropene	5.00	5.53	111	80.0-123	
trans-1,3-Dichloropropene	5.00	5.28	106	78.0-124	
trans-1,4-Dichloro-2-butene	5.00	2.89	57.8	33.0-144	
2,2-Dichloropropane	5.00	4.35	87.0	58.0-130	
Di-isopropyl ether	5.00	3.54	70.8	58.0-138	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3524660-1 05/04/20 19:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	5.00	5.26	105	79.0-123	
Hexachloro-1,3-butadiene	5.00	3.87	77.4	54.0-138	
2-Hexanone	25.0	19.4	77.6	67.0-149	
n-Hexane	5.00	2.78	55.6	57.0-133	J4
Iodomethane	25.0	21.0	84.0	33.0-147	
Isopropylbenzene	5.00	5.60	112	76.0-127	
p-Isopropyltoluene	5.00	4.90	98.0	76.0-125	
2-Butanone (MEK)	25.0	18.3	73.2	44.0-160	
Methylene Chloride	5.00	4.74	94.8	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	19.5	78.0	68.0-142	
Methyl tert-butyl ether	5.00	4.38	87.6	68.0-125	
Naphthalene	5.00	4.26	85.2	54.0-135	
n-Propylbenzene	5.00	4.81	96.2	77.0-124	
Styrene	5.00	5.80	116	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	5.34	107	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	5.14	103	65.0-130	
1,1,2-Trichlorotrifluoroethane	5.00	3.85	77.0	69.0-132	
Tetrachloroethene	5.00	5.36	107	72.0-132	
Toluene	5.00	5.30	106	79.0-120	
1,2,3-Trichlorobenzene	5.00	4.02	80.4	50.0-138	
1,2,4-Trichlorobenzene	5.00	4.77	95.4	57.0-137	
1,1,1-Trichloroethane	5.00	4.12	82.4	73.0-124	
1,1,2-Trichloroethane	5.00	5.23	105	80.0-120	
Trichloroethene	5.00	5.37	107	78.0-124	
Trichlorofluoromethane	5.00	4.68	93.6	59.0-147	
1,2,3-Trichloropropane	5.00	4.55	91.0	73.0-130	
1,2,4-Trimethylbenzene	5.00	4.80	96.0	76.0-121	
1,2,3-Trimethylbenzene	5.00	4.63	92.6	77.0-120	
1,3,5-Trimethylbenzene	5.00	4.87	97.4	76.0-122	
Vinyl acetate	25.0	28.3	113	11.0-160	
Vinyl chloride	5.00	4.38	87.6	67.0-131	
Xylenes, Total	15.0	17.0	113	79.0-123	
(S) Toluene-d8			105	80.0-120	
(S) 4-Bromofluorobenzene			102	77.0-126	
(S) 1,2-Dichloroethane-d4			84.6	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



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.

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

Qualifier	Description
B	The same analyte is found in the associated blank.
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.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
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.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
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}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

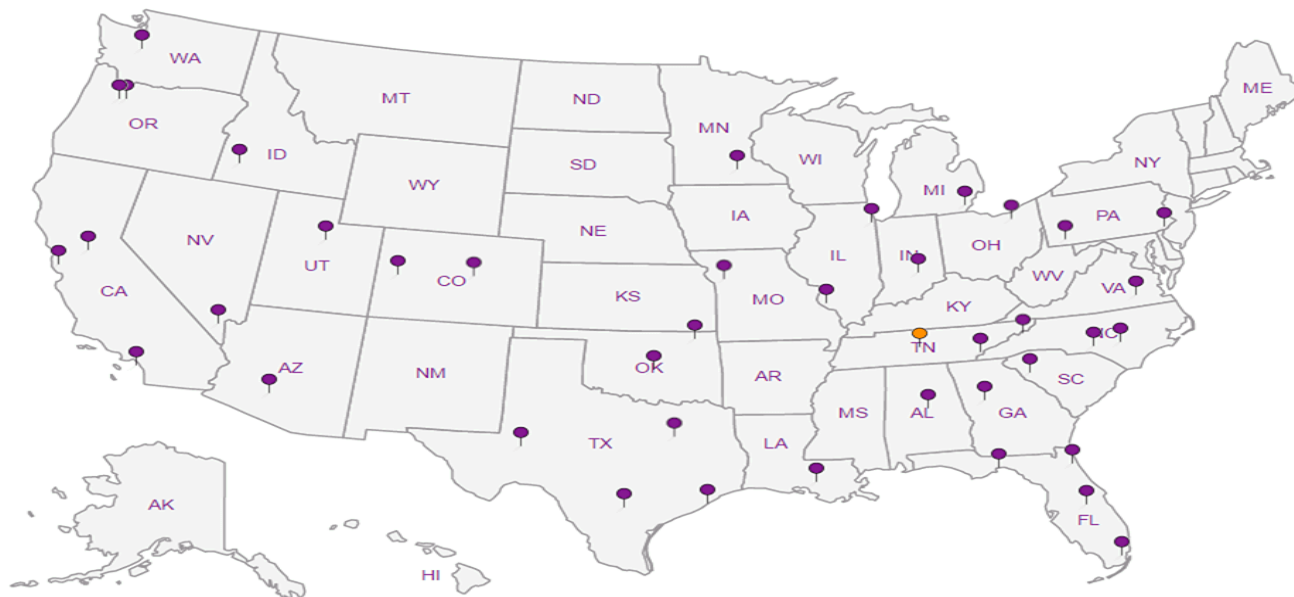
Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



SDG # 121233

Ta **A072**

Acctnum: **PESENVSWA**

Template: **T165314**

Prelogin: **P767343**

PM: **110 - Brian Ford**

PB:

Shipped Via:

Remarks Sample # (lab only)

Report to: **Brian O'Neal/Bill Haldeman**
Email To: **boneal@pesenv.com; bhdeman@pesenv.com;**

Project Description: **American Linen**
City/State Collected: _____
Please Circle: PT MT CT ET

Phone: **206-529-3980**
Client Project # **1413.001.02.501E**
Lab Project # **PESENVSWA-ALP**

Collected by (print): **Sean Kounovsky**
Site/Facility ID # **American Linen**
P.O. # _____

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
Quote # _____
Date Results Needed _____
No. of Cntrs _____

Packed on Ice N ___ Y
Sample ID Comp/Grab Matrix * Depth Date Time

*NO3,S04,Cl 125mlHDPE-NoPres
Alkalinity 125mlHDPE-NoPres
EEM RSK175LL 40mlAmb-HCl
NWTPHGX 40mlAmb HCl
TOC 250mlHDPE-HCl
Total Fe Mn 6020 250mlHDPE-HNO3
VOCs LL 8260D 40mlAmb-HCl

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NO3,S04,Cl 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlHDPE-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs LL 8260D 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-158A-042420	Grab	GW	95	4/24/20	930	12	X	X	X	X	X	X	X		01
MW-142-042420		GW	45		940	12	X	X	X	X	X	X	X		02
MW-331-042420		GW	40		1010	9	X	X	X	X	X	X	X		03
MW-315-042420		GW	45		1200	9	X	X	X	X	X	X	X		04
MW-143-042420		GW	75		1205	12	X	X	X	X	X	X	X		05
MW-157-042420		GW	75		1240	12	X	X	X	X	X	X	X		06
MW-156-042420		GW	45		1415	12	X	X	X	X	X	X	X		07
MW-324-042420		GW	75		1415	9	X	X	X	X	X	X	X		08
MW-334-042420		GW	58		1420	9	X	X	X	X	X	X	X		09
		GW													

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

Remarks: *Nitrate has a 48 hour holding time.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
___ UPS ___ FedEx ___ Courier _____

Tracking #

4794 8843 9369

Sample Receipt Checklist	
COC Seal Present/Intact:	<input checked="" type="checkbox"/> NP <input 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)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes No

HCL/MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp **17.0** °C Bottles Received: **96**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: **4/25/20** Time: **9:00**

Hold:

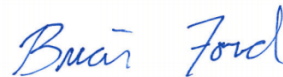
Condition:
NCF /

Sandy Yossif

PES Environmental, Inc.- WA

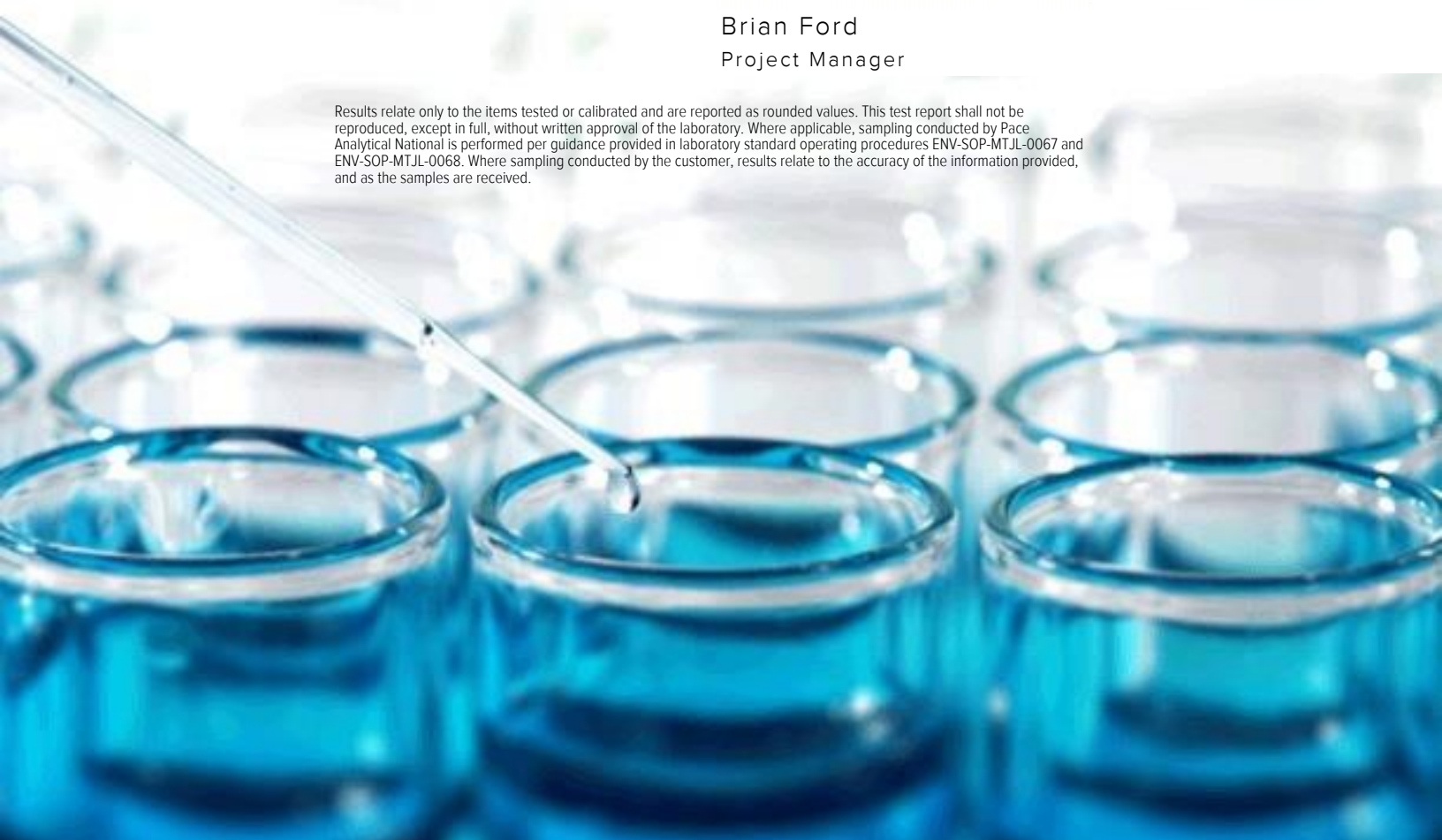
Sample Delivery Group: L1212802
Samples Received: 04/28/2020
Project Number: 1413.001.02.501E
Description: American Linen
Site: AMERICAN LINEN
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



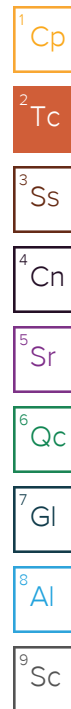
Brian Ford
Project Manager

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.





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SAMPLE SUMMARY



MW-317-042720 L1212802-01 GW

Collected by: Sean K
 Collected date/time: 04/27/20 09:45
 Received date/time: 04/28/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1467744	1	04/30/20 12:15	04/30/20 12:15	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1467229	1	04/28/20 19:21	04/28/20 19:21	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1467994	1	04/30/20 00:58	04/30/20 00:58	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1467596	1	05/01/20 13:00	05/01/20 19:08	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1467818	1	04/29/20 14:01	04/29/20 14:01	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1468508	10	04/30/20 11:01	04/30/20 11:01	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1468990	1	05/01/20 09:54	05/01/20 09:54	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470366	1	05/05/20 02:53	05/05/20 02:53	JAH	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

MW119-042720 L1212802-02 GW

Collected by: Sean K
 Collected date/time: 04/27/20 10:40
 Received date/time: 04/28/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1467744	1	04/30/20 12:29	04/30/20 12:29	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1467229	1	04/28/20 19:39	04/28/20 19:39	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1467996	1	04/29/20 23:43	04/29/20 23:43	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1467596	1	05/01/20 13:00	05/01/20 19:11	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1467818	1	04/29/20 14:04	04/29/20 14:04	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1468990	1	05/01/20 10:15	05/01/20 10:15	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470366	1	05/05/20 03:13	05/05/20 03:13	JAH	Mt. Juliet, TN

6 Qc

7 Gl

8 Al

9 Sc

MW-318-042720 L1212802-03 GW

Collected by: Sean K
 Collected date/time: 04/27/20 11:30
 Received date/time: 04/28/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1467744	1	04/30/20 12:38	04/30/20 12:38	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1467229	1	04/28/20 20:50	04/28/20 20:50	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1467996	1	04/30/20 00:01	04/30/20 00:01	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1467596	1	05/01/20 13:00	05/01/20 19:14	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1467818	1	04/29/20 14:08	04/29/20 14:08	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1468990	1	05/01/20 10:36	05/01/20 10:36	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470366	1	05/05/20 03:33	05/05/20 03:33	JAH	Mt. Juliet, TN

MW113-042720 L1212802-04 GW

Collected by: Sean K
 Collected date/time: 04/27/20 12:00
 Received date/time: 04/28/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1467744	1	04/30/20 12:48	04/30/20 12:48	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1467229	1	04/28/20 21:26	04/28/20 21:26	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1467996	1	04/30/20 00:20	04/30/20 00:20	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1467596	1	05/01/20 13:00	05/01/20 19:18	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1467818	1	04/29/20 14:20	04/29/20 14:20	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1468990	100	05/01/20 14:02	05/01/20 14:02	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470366	100	05/05/20 09:31	05/05/20 09:31	JAH	Mt. Juliet, TN

MW-319-042720 L1212802-05 GW

Collected by: Sean K
 Collected date/time: 04/27/20 13:20
 Received date/time: 04/28/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1467744	1	04/30/20 12:57	04/30/20 12:57	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1467229	1	04/28/20 22:02	04/28/20 22:02	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1467996	1	04/30/20 00:34	04/30/20 00:34	VRP	Mt. Juliet, TN

SAMPLE SUMMARY



MW-319-042720 L1212802-05 GW

Collected by
Sean K
Collected date/time
04/27/20 13:20
Received date/time
04/28/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG1467596	1	05/01/20 13:00	05/01/20 19:21	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1467818	1	04/29/20 14:27	04/29/20 14:27	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1468990	1	05/01/20 10:56	05/01/20 10:56	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470366	1	05/05/20 03:53	05/05/20 03:53	JAH	Mt. Juliet, TN

1
Cp

2
Tc

3
Ss

4
Cn

MW128-042720 L1212802-06 GW

Collected by
Sean K
Collected date/time
04/27/20 13:45
Received date/time
04/28/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1467744	1	04/30/20 13:16	04/30/20 13:16	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1467229	1	04/28/20 22:20	04/28/20 22:20	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1467996	1	04/30/20 00:56	04/30/20 00:56	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1467597	1	05/04/20 08:50	05/04/20 11:11	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1467818	1	04/29/20 14:30	04/29/20 14:30	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1468508	10	04/30/20 11:05	04/30/20 11:05	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1468990	1	05/01/20 11:17	05/01/20 11:17	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470366	1	05/05/20 04:13	05/05/20 04:13	JAH	Mt. Juliet, TN

5
Sr

6
Qc

7
Gl

8
Al

MW-329-042720 L1212802-07 GW

Collected by
Sean K
Collected date/time
04/27/20 14:00
Received date/time
04/28/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1467744	1	04/30/20 13:24	04/30/20 13:24	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1467229	1	04/28/20 22:38	04/28/20 22:38	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1467996	1	04/30/20 01:09	04/30/20 01:09	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1467597	1	05/04/20 08:50	05/04/20 11:27	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1467818	1	04/29/20 14:34	04/29/20 14:34	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1468990	1	05/01/20 11:37	05/01/20 11:37	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470366	1	05/05/20 08:10	05/05/20 08:10	JAH	Mt. Juliet, TN

9
Sc

TB-042720 L1212802-08 GW

Collected by
Sean K
Collected date/time
04/27/20 15:00
Received date/time
04/28/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1468990	1	05/01/20 07:30	05/01/20 07:30	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470366	1	05/05/20 00:31	05/05/20 00:31	JAH	Mt. Juliet, TN



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.

Brian Ford
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	321000		8450	20000	1	04/30/2020 12:15	WG1467744

Sample Narrative:

L1212802-01 WG1467744: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	26600		379	1000	1	04/28/2020 19:21	WG1467229
Nitrate	U		48.0	100	1	04/28/2020 19:21	WG1467229
Sulfate	15800		594	5000	1	04/28/2020 19:21	WG1467229

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)	12700		102	1000	1	04/30/2020 00:58	WG1467994

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	12600		48.9	100	1	05/01/2020 19:08	WG1467596
Manganese	2940		1.32	5.00	1	05/01/2020 19:08	WG1467596

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	900		2.87	6.78	10	04/30/2020 11:01	WG1468508
Ethane	U		0.296	1.29	1	04/29/2020 14:01	WG1467818
Ethene	U		0.422	1.27	1	04/29/2020 14:01	WG1467818

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		11.3	25.0	1	05/01/2020 09:54	WG1468990
Acrylonitrile	U		0.671	5.00	1	05/01/2020 09:54	WG1468990
Benzene	U		0.0941	0.500	1	05/01/2020 09:54	WG1468990
Bromobenzene	U		0.118	0.500	1	05/01/2020 09:54	WG1468990
Bromodichloromethane	U		0.136	0.500	1	05/01/2020 09:54	WG1468990
Bromochloromethane	U		0.128	0.500	1	05/01/2020 09:54	WG1468990
Bromoform	U		0.129	0.500	1	05/01/2020 09:54	WG1468990
Bromomethane	U	<u>JO</u>	0.605	2.50	1	05/01/2020 09:54	WG1468990
n-Butylbenzene	U		0.157	0.500	1	05/01/2020 09:54	WG1468990
sec-Butylbenzene	U		0.125	0.500	1	05/01/2020 09:54	WG1468990
tert-Butylbenzene	U		0.127	0.500	1	05/01/2020 09:54	WG1468990
Carbon disulfide	U		0.0962	0.500	1	05/01/2020 09:54	WG1468990
Carbon tetrachloride	U		0.128	0.500	1	05/01/2020 09:54	WG1468990
Chlorobenzene	U		0.117	0.500	1	05/01/2020 09:54	WG1468990
Chlorodibromomethane	U		0.140	0.500	1	05/01/2020 09:54	WG1468990
Chloroethane	U		0.192	2.50	1	05/01/2020 09:54	WG1468990
Chloroform	U		0.111	0.500	1	05/01/2020 09:54	WG1468990
Chloromethane	U		0.960	1.25	1	05/01/2020 09:54	WG1468990
2-Chlorotoluene	U		0.106	0.500	1	05/01/2020 09:54	WG1468990
4-Chlorotoluene	U		0.114	0.500	1	05/01/2020 09:54	WG1468990

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	
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.276	2.50	1	05/01/2020 09:54	WG1468990
1,2-Dibromoethane	U		0.126	0.500	1	05/01/2020 09:54	WG1468990
Dibromomethane	U		0.122	0.500	1	05/01/2020 09:54	WG1468990
1,2-Dichlorobenzene	U		0.107	0.500	1	05/01/2020 09:54	WG1468990
1,3-Dichlorobenzene	U		0.299	0.500	1	05/01/2020 09:54	WG1468990
1,4-Dichlorobenzene	U		0.120	0.500	1	05/01/2020 09:54	WG1468990
Dichlorodifluoromethane	U		0.374	2.50	1	05/01/2020 09:54	WG1468990
1,1-Dichloroethane	U		0.100	0.500	1	05/01/2020 09:54	WG1468990
1,2-Dichloroethane	U		0.0819	0.500	1	05/01/2020 09:54	WG1468990
1,1-Dichloroethene	U		0.188	0.500	1	05/01/2020 09:54	WG1468990
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/01/2020 09:54	WG1468990
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/01/2020 09:54	WG1468990
1,2-Dichloropropane	U		0.149	0.500	1	05/01/2020 09:54	WG1468990
1,1-Dichloropropene	U		0.142	0.500	1	05/01/2020 09:54	WG1468990
1,3-Dichloropropane	U		0.109	1.00	1	05/01/2020 09:54	WG1468990
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/01/2020 09:54	WG1468990
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/01/2020 09:54	WG1468990
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.467	5.00	1	05/01/2020 09:54	WG1468990
2,2-Dichloropropane	U		0.161	0.500	1	05/01/2020 09:54	WG1468990
Di-isopropyl ether	U		0.105	0.500	1	05/01/2020 09:54	WG1468990
Ethylbenzene	U		0.137	0.500	1	05/01/2020 09:54	WG1468990
Hexachloro-1,3-butadiene	U	<u>JO J4</u>	0.337	1.00	1	05/01/2020 09:54	WG1468990
2-Hexanone	U		0.787	5.00	1	05/01/2020 09:54	WG1468990
n-Hexane	U		0.749	5.00	1	05/01/2020 09:54	WG1468990
Iodomethane	U		6.00	10.0	1	05/01/2020 09:54	WG1468990
Isopropylbenzene	U		0.105	0.500	1	05/01/2020 09:54	WG1468990
p-Isopropyltoluene	U		0.120	0.500	1	05/01/2020 09:54	WG1468990
2-Butanone (MEK)	U		1.19	5.00	1	05/01/2020 09:54	WG1468990
Methylene Chloride	U		0.430	2.50	1	05/01/2020 09:54	WG1468990
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/01/2020 09:54	WG1468990
Methyl tert-butyl ether	U		0.101	0.500	1	05/01/2020 09:54	WG1468990
Naphthalene	U		0.174	2.50	1	05/01/2020 09:54	WG1468990
n-Propylbenzene	U		0.0993	0.500	1	05/01/2020 09:54	WG1468990
Styrene	U	<u>JO</u>	0.118	0.500	1	05/01/2020 09:54	WG1468990
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/01/2020 09:54	WG1468990
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/01/2020 09:54	WG1468990
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/01/2020 09:54	WG1468990
Tetrachloroethene	U		0.300	0.500	1	05/01/2020 09:54	WG1468990
Toluene	U		0.278	0.500	1	05/01/2020 09:54	WG1468990
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/05/2020 02:53	WG1470366
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.481	1.00	1	05/01/2020 09:54	WG1468990
1,1,1-Trichloroethane	U		0.149	0.500	1	05/01/2020 09:54	WG1468990
1,1,2-Trichloroethane	U		0.158	0.500	1	05/01/2020 09:54	WG1468990
Trichloroethene	U		0.190	0.500	1	05/01/2020 09:54	WG1468990
Trichlorofluoromethane	U		0.160	2.50	1	05/01/2020 09:54	WG1468990
1,2,3-Trichloropropane	U		0.237	2.50	1	05/01/2020 09:54	WG1468990
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/01/2020 09:54	WG1468990
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 09:54	WG1468990
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 09:54	WG1468990
Vinyl acetate	U	<u>JO</u>	0.692	5.00	1	05/01/2020 09:54	WG1468990
Vinyl chloride	U		0.234	0.500	1	05/01/2020 09:54	WG1468990
Xylenes, Total	U		0.174	1.50	1	05/01/2020 09:54	WG1468990
(S) Toluene-d8	104			80.0-120		05/01/2020 09:54	WG1468990
(S) Toluene-d8	110			80.0-120		05/05/2020 02:53	WG1470366
(S) 4-Bromofluorobenzene	101			77.0-126		05/01/2020 09:54	WG1468990
(S) 4-Bromofluorobenzene	98.8			77.0-126		05/05/2020 02:53	WG1470366

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) 1,2-Dichloroethane-d4	119			70.0-130		05/01/2020 09:54	WG1468990
(S) 1,2-Dichloroethane-d4	85.4			70.0-130		05/05/2020 02:53	WG1470366

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	281000		8450	20000	1	04/30/2020 12:29	WG1467744

Sample Narrative:

L1212802-02 WG1467744: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	14900		379	1000	1	04/28/2020 19:39	WG1467229
Nitrate	U		48.0	100	1	04/28/2020 19:39	WG1467229
Sulfate	5670		594	5000	1	04/28/2020 19:39	WG1467229

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)	7190		102	1000	1	04/29/2020 23:43	WG1467996

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	12300		48.9	100	1	05/01/2020 19:11	WG1467596
Manganese	3200		1.32	5.00	1	05/01/2020 19:11	WG1467596

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	480		0.287	0.678	1	04/29/2020 14:04	WG1467818
Ethane	U		0.296	1.29	1	04/29/2020 14:04	WG1467818
Ethene	U		0.422	1.27	1	04/29/2020 14:04	WG1467818

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		11.3	25.0	1	05/01/2020 10:15	WG1468990
Acrylonitrile	U		0.671	5.00	1	05/01/2020 10:15	WG1468990
Benzene	U		0.0941	0.500	1	05/01/2020 10:15	WG1468990
Bromobenzene	U		0.118	0.500	1	05/01/2020 10:15	WG1468990
Bromodichloromethane	U		0.136	0.500	1	05/01/2020 10:15	WG1468990
Bromochloromethane	U		0.128	0.500	1	05/01/2020 10:15	WG1468990
Bromoform	U		0.129	0.500	1	05/01/2020 10:15	WG1468990
Bromomethane	U	<u>JO</u>	0.605	2.50	1	05/01/2020 10:15	WG1468990
n-Butylbenzene	U		0.157	0.500	1	05/01/2020 10:15	WG1468990
sec-Butylbenzene	U		0.125	0.500	1	05/01/2020 10:15	WG1468990
tert-Butylbenzene	U		0.127	0.500	1	05/01/2020 10:15	WG1468990
Carbon disulfide	U		0.0962	0.500	1	05/01/2020 10:15	WG1468990
Carbon tetrachloride	U		0.128	0.500	1	05/01/2020 10:15	WG1468990
Chlorobenzene	U		0.117	0.500	1	05/01/2020 10:15	WG1468990
Chlorodibromomethane	U		0.140	0.500	1	05/01/2020 10:15	WG1468990
Chloroethane	U		0.192	2.50	1	05/01/2020 10:15	WG1468990
Chloroform	U		0.111	0.500	1	05/01/2020 10:15	WG1468990
Chloromethane	U		0.960	1.25	1	05/01/2020 10:15	WG1468990
2-Chlorotoluene	U		0.106	0.500	1	05/01/2020 10:15	WG1468990
4-Chlorotoluene	U		0.114	0.500	1	05/01/2020 10:15	WG1468990

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/27/20 10:40

L1212802

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.276	2.50	1	05/01/2020 10:15	WG1468990
1,2-Dibromoethane	U		0.126	0.500	1	05/01/2020 10:15	WG1468990
Dibromomethane	U		0.122	0.500	1	05/01/2020 10:15	WG1468990
1,2-Dichlorobenzene	U		0.107	0.500	1	05/01/2020 10:15	WG1468990
1,3-Dichlorobenzene	U		0.299	0.500	1	05/01/2020 10:15	WG1468990
1,4-Dichlorobenzene	U		0.120	0.500	1	05/01/2020 10:15	WG1468990
Dichlorodifluoromethane	U		0.374	2.50	1	05/01/2020 10:15	WG1468990
1,1-Dichloroethane	U		0.100	0.500	1	05/01/2020 10:15	WG1468990
1,2-Dichloroethane	U		0.0819	0.500	1	05/01/2020 10:15	WG1468990
1,1-Dichloroethene	U		0.188	0.500	1	05/01/2020 10:15	WG1468990
cis-1,2-Dichloroethene	6.88		0.126	0.500	1	05/01/2020 10:15	WG1468990
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/01/2020 10:15	WG1468990
1,2-Dichloropropane	U		0.149	0.500	1	05/01/2020 10:15	WG1468990
1,1-Dichloropropene	U		0.142	0.500	1	05/01/2020 10:15	WG1468990
1,3-Dichloropropane	U		0.109	1.00	1	05/01/2020 10:15	WG1468990
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/01/2020 10:15	WG1468990
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/01/2020 10:15	WG1468990
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.467	5.00	1	05/01/2020 10:15	WG1468990
2,2-Dichloropropane	U		0.161	0.500	1	05/01/2020 10:15	WG1468990
Di-isopropyl ether	U		0.105	0.500	1	05/01/2020 10:15	WG1468990
Ethylbenzene	U		0.137	0.500	1	05/01/2020 10:15	WG1468990
Hexachloro-1,3-butadiene	U	<u>JO J4</u>	0.337	1.00	1	05/01/2020 10:15	WG1468990
2-Hexanone	U		0.787	5.00	1	05/01/2020 10:15	WG1468990
n-Hexane	U		0.749	5.00	1	05/01/2020 10:15	WG1468990
Iodomethane	U		6.00	10.0	1	05/01/2020 10:15	WG1468990
Isopropylbenzene	U		0.105	0.500	1	05/01/2020 10:15	WG1468990
p-Isopropyltoluene	U		0.120	0.500	1	05/01/2020 10:15	WG1468990
2-Butanone (MEK)	U		1.19	5.00	1	05/01/2020 10:15	WG1468990
Methylene Chloride	U		0.430	2.50	1	05/01/2020 10:15	WG1468990
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/01/2020 10:15	WG1468990
Methyl tert-butyl ether	U		0.101	0.500	1	05/01/2020 10:15	WG1468990
Naphthalene	U		0.174	2.50	1	05/01/2020 10:15	WG1468990
n-Propylbenzene	U		0.0993	0.500	1	05/01/2020 10:15	WG1468990
Styrene	U	<u>JO</u>	0.118	0.500	1	05/01/2020 10:15	WG1468990
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/01/2020 10:15	WG1468990
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/01/2020 10:15	WG1468990
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/01/2020 10:15	WG1468990
Tetrachloroethene	0.595		0.300	0.500	1	05/01/2020 10:15	WG1468990
Toluene	U		0.278	0.500	1	05/01/2020 10:15	WG1468990
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/05/2020 03:13	WG1470366
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.481	1.00	1	05/01/2020 10:15	WG1468990
1,1,1-Trichloroethane	U		0.149	0.500	1	05/01/2020 10:15	WG1468990
1,1,2-Trichloroethane	U		0.158	0.500	1	05/01/2020 10:15	WG1468990
Trichloroethene	1.62		0.190	0.500	1	05/01/2020 10:15	WG1468990
Trichlorofluoromethane	U		0.160	2.50	1	05/01/2020 10:15	WG1468990
1,2,3-Trichloropropane	U		0.237	2.50	1	05/01/2020 10:15	WG1468990
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/01/2020 10:15	WG1468990
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 10:15	WG1468990
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 10:15	WG1468990
Vinyl acetate	U	<u>JO</u>	0.692	5.00	1	05/01/2020 10:15	WG1468990
Vinyl chloride	U		0.234	0.500	1	05/01/2020 10:15	WG1468990
Xylenes, Total	U		0.174	1.50	1	05/01/2020 10:15	WG1468990
(S) Toluene-d8	103			80.0-120		05/01/2020 10:15	WG1468990
(S) Toluene-d8	107			80.0-120		05/05/2020 03:13	WG1470366
(S) 4-Bromofluorobenzene	99.6			77.0-126		05/01/2020 10:15	WG1468990
(S) 4-Bromofluorobenzene	100			77.0-126		05/05/2020 03:13	WG1470366

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) 1,2-Dichloroethane-d4	114			70.0-130		05/01/2020 10:15	WG1468990
(S) 1,2-Dichloroethane-d4	85.7			70.0-130		05/05/2020 03:13	WG1470366

- 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	676000		8450	20000	1	04/30/2020 12:38	WG1467744

Sample Narrative:

L1212802-03 WG1467744: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	14500		379	1000	1	04/28/2020 20:50	WG1467229
Nitrate	U		48.0	100	1	04/28/2020 20:50	WG1467229
Sulfate	5120		594	5000	1	04/28/2020 20:50	WG1467229

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)	7870		102	1000	1	04/30/2020 00:01	WG1467996

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	14900		48.9	100	1	05/01/2020 19:14	WG1467596
Manganese	3550		1.32	5.00	1	05/01/2020 19:14	WG1467596

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	6720		0.287	0.678	1	04/29/2020 14:08	WG1467818
Ethane	13.9		0.296	1.29	1	04/29/2020 14:08	WG1467818
Ethene	U		0.422	1.27	1	04/29/2020 14:08	WG1467818

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		11.3	25.0	1	05/01/2020 10:36	WG1468990
Acrylonitrile	U		0.671	5.00	1	05/01/2020 10:36	WG1468990
Benzene	22.6		0.0941	0.500	1	05/01/2020 10:36	WG1468990
Bromobenzene	U		0.118	0.500	1	05/01/2020 10:36	WG1468990
Bromodichloromethane	U		0.136	0.500	1	05/01/2020 10:36	WG1468990
Bromochloromethane	U		0.128	0.500	1	05/01/2020 10:36	WG1468990
Bromoform	U		0.129	0.500	1	05/01/2020 10:36	WG1468990
Bromomethane	U	<u>JO</u>	0.605	2.50	1	05/01/2020 10:36	WG1468990
n-Butylbenzene	U		0.157	0.500	1	05/01/2020 10:36	WG1468990
sec-Butylbenzene	U		0.125	0.500	1	05/01/2020 10:36	WG1468990
tert-Butylbenzene	U		0.127	0.500	1	05/01/2020 10:36	WG1468990
Carbon disulfide	U		0.0962	0.500	1	05/01/2020 10:36	WG1468990
Carbon tetrachloride	U		0.128	0.500	1	05/01/2020 10:36	WG1468990
Chlorobenzene	U		0.117	0.500	1	05/01/2020 10:36	WG1468990
Chlorodibromomethane	U		0.140	0.500	1	05/01/2020 10:36	WG1468990
Chloroethane	U		0.192	2.50	1	05/01/2020 10:36	WG1468990
Chloroform	U		0.111	0.500	1	05/01/2020 10:36	WG1468990
Chloromethane	U		0.960	1.25	1	05/01/2020 10:36	WG1468990
2-Chlorotoluene	U		0.106	0.500	1	05/01/2020 10:36	WG1468990
4-Chlorotoluene	U		0.114	0.500	1	05/01/2020 10:36	WG1468990

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
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.276	2.50	1	05/01/2020 10:36	WG1468990
1,2-Dibromoethane	U		0.126	0.500	1	05/01/2020 10:36	WG1468990
Dibromomethane	U		0.122	0.500	1	05/01/2020 10:36	WG1468990
1,2-Dichlorobenzene	U		0.107	0.500	1	05/01/2020 10:36	WG1468990
1,3-Dichlorobenzene	U		0.299	0.500	1	05/01/2020 10:36	WG1468990
1,4-Dichlorobenzene	U		0.120	0.500	1	05/01/2020 10:36	WG1468990
Dichlorodifluoromethane	U		0.374	2.50	1	05/01/2020 10:36	WG1468990
1,1-Dichloroethane	0.222	<u>J</u>	0.100	0.500	1	05/01/2020 10:36	WG1468990
1,2-Dichloroethane	0.578		0.0819	0.500	1	05/01/2020 10:36	WG1468990
1,1-Dichloroethene	U		0.188	0.500	1	05/01/2020 10:36	WG1468990
cis-1,2-Dichloroethene	2.08		0.126	0.500	1	05/01/2020 10:36	WG1468990
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/01/2020 10:36	WG1468990
1,2-Dichloropropane	U		0.149	0.500	1	05/01/2020 10:36	WG1468990
1,1-Dichloropropene	U		0.142	0.500	1	05/01/2020 10:36	WG1468990
1,3-Dichloropropane	U		0.109	1.00	1	05/01/2020 10:36	WG1468990
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/01/2020 10:36	WG1468990
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/01/2020 10:36	WG1468990
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.467	5.00	1	05/01/2020 10:36	WG1468990
2,2-Dichloropropane	U		0.161	0.500	1	05/01/2020 10:36	WG1468990
Di-isopropyl ether	0.243	<u>J</u>	0.105	0.500	1	05/01/2020 10:36	WG1468990
Ethylbenzene	U		0.137	0.500	1	05/01/2020 10:36	WG1468990
Hexachloro-1,3-butadiene	U	<u>JO J4</u>	0.337	1.00	1	05/01/2020 10:36	WG1468990
2-Hexanone	U		0.787	5.00	1	05/01/2020 10:36	WG1468990
n-Hexane	U		0.749	5.00	1	05/01/2020 10:36	WG1468990
Iodomethane	U		6.00	10.0	1	05/01/2020 10:36	WG1468990
Isopropylbenzene	U		0.105	0.500	1	05/01/2020 10:36	WG1468990
p-Isopropyltoluene	U		0.120	0.500	1	05/01/2020 10:36	WG1468990
2-Butanone (MEK)	U		1.19	5.00	1	05/01/2020 10:36	WG1468990
Methylene Chloride	U		0.430	2.50	1	05/01/2020 10:36	WG1468990
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/01/2020 10:36	WG1468990
Methyl tert-butyl ether	0.250	<u>J</u>	0.101	0.500	1	05/01/2020 10:36	WG1468990
Naphthalene	U		0.174	2.50	1	05/01/2020 10:36	WG1468990
n-Propylbenzene	U		0.0993	0.500	1	05/01/2020 10:36	WG1468990
Styrene	U	<u>JO</u>	0.118	0.500	1	05/01/2020 10:36	WG1468990
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/01/2020 10:36	WG1468990
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/01/2020 10:36	WG1468990
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/01/2020 10:36	WG1468990
Tetrachloroethene	U		0.300	0.500	1	05/01/2020 10:36	WG1468990
Toluene	U		0.278	0.500	1	05/01/2020 10:36	WG1468990
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/05/2020 03:33	WG1470366
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.481	1.00	1	05/01/2020 10:36	WG1468990
1,1,1-Trichloroethane	U		0.149	0.500	1	05/01/2020 10:36	WG1468990
1,1,2-Trichloroethane	U		0.158	0.500	1	05/01/2020 10:36	WG1468990
Trichloroethene	U		0.190	0.500	1	05/01/2020 10:36	WG1468990
Trichlorofluoromethane	U		0.160	2.50	1	05/01/2020 10:36	WG1468990
1,2,3-Trichloropropane	U		0.237	2.50	1	05/01/2020 10:36	WG1468990
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/01/2020 10:36	WG1468990
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 10:36	WG1468990
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 10:36	WG1468990
Vinyl acetate	U	<u>JO</u>	0.692	5.00	1	05/01/2020 10:36	WG1468990
Vinyl chloride	3.84		0.234	0.500	1	05/01/2020 10:36	WG1468990
Xylenes, Total	U		0.174	1.50	1	05/01/2020 10:36	WG1468990
(S) Toluene-d8	103			80.0-120		05/01/2020 10:36	WG1468990
(S) Toluene-d8	107			80.0-120		05/05/2020 03:33	WG1470366
(S) 4-Bromofluorobenzene	99.9			77.0-126		05/01/2020 10:36	WG1468990
(S) 4-Bromofluorobenzene	102			77.0-126		05/05/2020 03:33	WG1470366

- 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) 1,2-Dichloroethane-d4	116			70.0-130		05/01/2020 10:36	WG1468990
(S) 1,2-Dichloroethane-d4	84.3			70.0-130		05/05/2020 03:33	WG1470366

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	456000		8450	20000	1	04/30/2020 12:48	WG1467744

Sample Narrative:

L1212802-04 WG1467744: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	46000		379	1000	1	04/28/2020 21:26	WG1467229
Nitrate	92.1	J	48.0	100	1	04/28/2020 21:26	WG1467229
Sulfate	51200		594	5000	1	04/28/2020 21:26	WG1467229

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)	9770		102	1000	1	04/30/2020 00:20	WG1467996

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	6640		48.9	100	1	05/01/2020 19:18	WG1467596
Manganese	743		1.32	5.00	1	05/01/2020 19:18	WG1467596

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	3760		0.287	0.678	1	04/29/2020 14:20	WG1467818
Ethane	60.0		0.296	1.29	1	04/29/2020 14:20	WG1467818
Ethene	U		0.422	1.27	1	04/29/2020 14:20	WG1467818

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		1130	2500	100	05/01/2020 14:02	WG1468990
Acrylonitrile	U		67.1	500	100	05/01/2020 14:02	WG1468990
Benzene	U		9.41	50.0	100	05/01/2020 14:02	WG1468990
Bromobenzene	U		11.8	50.0	100	05/01/2020 14:02	WG1468990
Bromodichloromethane	U		13.6	50.0	100	05/01/2020 14:02	WG1468990
Bromochloromethane	U		12.8	50.0	100	05/01/2020 14:02	WG1468990
Bromoform	U		12.9	50.0	100	05/01/2020 14:02	WG1468990
Bromomethane	U	JO	60.5	250	100	05/01/2020 14:02	WG1468990
n-Butylbenzene	U		15.7	50.0	100	05/01/2020 14:02	WG1468990
sec-Butylbenzene	U		12.5	50.0	100	05/01/2020 14:02	WG1468990
tert-Butylbenzene	U		12.7	50.0	100	05/01/2020 14:02	WG1468990
Carbon disulfide	U		9.62	50.0	100	05/01/2020 14:02	WG1468990
Carbon tetrachloride	U		12.8	50.0	100	05/01/2020 14:02	WG1468990
Chlorobenzene	U		11.7	50.0	100	05/01/2020 14:02	WG1468990
Chlorodibromomethane	U		14.0	50.0	100	05/01/2020 14:02	WG1468990
Chloroethane	U		19.2	250	100	05/01/2020 14:02	WG1468990
Chloroform	U		11.1	50.0	100	05/01/2020 14:02	WG1468990
Chloromethane	U		96.0	125	100	05/01/2020 14:02	WG1468990
2-Chlorotoluene	U		10.6	50.0	100	05/01/2020 14:02	WG1468990
4-Chlorotoluene	U		11.4	50.0	100	05/01/2020 14:02	WG1468990

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
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	27.6	250	100	05/01/2020 14:02	WG1468990
1,2-Dibromoethane	U		12.6	50.0	100	05/01/2020 14:02	WG1468990
Dibromomethane	U		12.2	50.0	100	05/01/2020 14:02	WG1468990
1,2-Dichlorobenzene	U		10.7	50.0	100	05/01/2020 14:02	WG1468990
1,3-Dichlorobenzene	U		29.9	50.0	100	05/01/2020 14:02	WG1468990
1,4-Dichlorobenzene	U		12.0	50.0	100	05/01/2020 14:02	WG1468990
Dichlorodifluoromethane	U		37.4	250	100	05/01/2020 14:02	WG1468990
1,1-Dichloroethane	U		10.0	50.0	100	05/01/2020 14:02	WG1468990
1,2-Dichloroethane	U		8.19	50.0	100	05/01/2020 14:02	WG1468990
1,1-Dichloroethene	U		18.8	50.0	100	05/01/2020 14:02	WG1468990
cis-1,2-Dichloroethene	4320		12.6	50.0	100	05/01/2020 14:02	WG1468990
trans-1,2-Dichloroethene	U		14.9	50.0	100	05/01/2020 14:02	WG1468990
1,2-Dichloropropane	U		14.9	50.0	100	05/01/2020 14:02	WG1468990
1,1-Dichloropropene	U		14.2	50.0	100	05/01/2020 14:02	WG1468990
1,3-Dichloropropane	U		10.9	100	100	05/01/2020 14:02	WG1468990
cis-1,3-Dichloropropene	U		11.1	50.0	100	05/01/2020 14:02	WG1468990
trans-1,3-Dichloropropene	U		11.8	50.0	100	05/01/2020 14:02	WG1468990
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	46.7	500	100	05/01/2020 14:02	WG1468990
2,2-Dichloropropane	U		16.1	50.0	100	05/01/2020 14:02	WG1468990
Di-isopropyl ether	U		10.5	50.0	100	05/01/2020 14:02	WG1468990
Ethylbenzene	U		13.7	50.0	100	05/01/2020 14:02	WG1468990
Hexachloro-1,3-butadiene	U	<u>JO J4</u>	33.7	100	100	05/01/2020 14:02	WG1468990
2-Hexanone	U		78.7	500	100	05/01/2020 14:02	WG1468990
n-Hexane	U		74.9	500	100	05/01/2020 14:02	WG1468990
Iodomethane	U		600	1000	100	05/01/2020 14:02	WG1468990
Isopropylbenzene	U		10.5	50.0	100	05/01/2020 14:02	WG1468990
p-Isopropyltoluene	U		12.0	50.0	100	05/01/2020 14:02	WG1468990
2-Butanone (MEK)	U		119	500	100	05/01/2020 14:02	WG1468990
Methylene Chloride	U		43.0	250	100	05/01/2020 14:02	WG1468990
4-Methyl-2-pentanone (MIBK)	U		47.8	500	100	05/01/2020 14:02	WG1468990
Methyl tert-butyl ether	U		10.1	50.0	100	05/01/2020 14:02	WG1468990
Naphthalene	U		17.4	250	100	05/01/2020 14:02	WG1468990
n-Propylbenzene	U		9.93	50.0	100	05/01/2020 14:02	WG1468990
Styrene	U	<u>JO</u>	11.8	50.0	100	05/01/2020 14:02	WG1468990
1,1,1,2-Tetrachloroethane	U		14.7	50.0	100	05/01/2020 14:02	WG1468990
1,1,2,2-Tetrachloroethane	U		13.3	50.0	100	05/01/2020 14:02	WG1468990
1,1,2-Trichlorotrifluoroethane	U		18.0	50.0	100	05/01/2020 14:02	WG1468990
Tetrachloroethene	U		30.0	50.0	100	05/01/2020 14:02	WG1468990
Toluene	U		27.8	50.0	100	05/01/2020 14:02	WG1468990
1,2,3-Trichlorobenzene	U		16.4	50.0	100	05/05/2020 09:31	WG1470366
1,2,4-Trichlorobenzene	U	<u>JO</u>	48.1	100	100	05/01/2020 14:02	WG1468990
1,1,1-Trichloroethane	U		14.9	50.0	100	05/01/2020 14:02	WG1468990
1,1,2-Trichloroethane	U		15.8	50.0	100	05/01/2020 14:02	WG1468990
Trichloroethene	U		19.0	50.0	100	05/01/2020 14:02	WG1468990
Trichlorofluoromethane	U		16.0	250	100	05/01/2020 14:02	WG1468990
1,2,3-Trichloropropane	U		23.7	250	100	05/01/2020 14:02	WG1468990
1,2,4-Trimethylbenzene	U		32.2	50.0	100	05/01/2020 14:02	WG1468990
1,2,3-Trimethylbenzene	U		10.4	50.0	100	05/01/2020 14:02	WG1468990
1,3,5-Trimethylbenzene	U		10.4	50.0	100	05/01/2020 14:02	WG1468990
Vinyl acetate	U	<u>JO</u>	69.2	500	100	05/01/2020 14:02	WG1468990
Vinyl chloride	75.9		23.4	50.0	100	05/01/2020 14:02	WG1468990
Xylenes, Total	U		17.4	150	100	05/01/2020 14:02	WG1468990
(S) Toluene-d8	100			80.0-120		05/01/2020 14:02	WG1468990
(S) Toluene-d8	105			80.0-120		05/05/2020 09:31	WG1470366
(S) 4-Bromofluorobenzene	89.7			77.0-126		05/01/2020 14:02	WG1468990
(S) 4-Bromofluorobenzene	98.8			77.0-126		05/05/2020 09:31	WG1470366

- 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) 1,2-Dichloroethane-d4	115			70.0-130		05/01/2020 14:02	WG1468990
(S) 1,2-Dichloroethane-d4	83.9			70.0-130		05/05/2020 09:31	WG1470366

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	250000		8450	20000	1	04/30/2020 12:57	WG1467744

Sample Narrative:

L1212802-05 WG1467744: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	18800		379	1000	1	04/28/2020 22:02	WG1467229
Nitrate	U		48.0	100	1	04/28/2020 22:02	WG1467229
Sulfate	82000		594	5000	1	04/28/2020 22:02	WG1467229

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)	1990	<u>B</u>	102	1000	1	04/30/2020 00:34	WG1467996

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	4290		48.9	100	1	05/01/2020 19:21	WG1467596
Manganese	859		1.32	5.00	1	05/01/2020 19:21	WG1467596

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	197		0.287	0.678	1	04/29/2020 14:27	WG1467818
Ethane	U		0.296	1.29	1	04/29/2020 14:27	WG1467818
Ethene	U		0.422	1.27	1	04/29/2020 14:27	WG1467818

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		11.3	25.0	1	05/01/2020 10:56	WG1468990
Acrylonitrile	U		0.671	5.00	1	05/01/2020 10:56	WG1468990
Benzene	U		0.0941	0.500	1	05/01/2020 10:56	WG1468990
Bromobenzene	U		0.118	0.500	1	05/01/2020 10:56	WG1468990
Bromodichloromethane	U		0.136	0.500	1	05/01/2020 10:56	WG1468990
Bromochloromethane	U		0.128	0.500	1	05/01/2020 10:56	WG1468990
Bromoform	U		0.129	0.500	1	05/01/2020 10:56	WG1468990
Bromomethane	U	<u>JO</u>	0.605	2.50	1	05/01/2020 10:56	WG1468990
n-Butylbenzene	U		0.157	0.500	1	05/01/2020 10:56	WG1468990
sec-Butylbenzene	U		0.125	0.500	1	05/01/2020 10:56	WG1468990
tert-Butylbenzene	U		0.127	0.500	1	05/01/2020 10:56	WG1468990
Carbon disulfide	U		0.0962	0.500	1	05/01/2020 10:56	WG1468990
Carbon tetrachloride	U		0.128	0.500	1	05/01/2020 10:56	WG1468990
Chlorobenzene	U		0.117	0.500	1	05/01/2020 10:56	WG1468990
Chlorodibromomethane	U		0.140	0.500	1	05/01/2020 10:56	WG1468990
Chloroethane	U		0.192	2.50	1	05/01/2020 10:56	WG1468990
Chloroform	U		0.111	0.500	1	05/01/2020 10:56	WG1468990
Chloromethane	U		0.960	1.25	1	05/01/2020 10:56	WG1468990
2-Chlorotoluene	U		0.106	0.500	1	05/01/2020 10:56	WG1468990
4-Chlorotoluene	U		0.114	0.500	1	05/01/2020 10:56	WG1468990

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
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.276	2.50	1	05/01/2020 10:56	WG1468990
1,2-Dibromoethane	U		0.126	0.500	1	05/01/2020 10:56	WG1468990
Dibromomethane	U		0.122	0.500	1	05/01/2020 10:56	WG1468990
1,2-Dichlorobenzene	U		0.107	0.500	1	05/01/2020 10:56	WG1468990
1,3-Dichlorobenzene	U		0.299	0.500	1	05/01/2020 10:56	WG1468990
1,4-Dichlorobenzene	U		0.120	0.500	1	05/01/2020 10:56	WG1468990
Dichlorodifluoromethane	U		0.374	2.50	1	05/01/2020 10:56	WG1468990
1,1-Dichloroethane	0.438	<u>J</u>	0.100	0.500	1	05/01/2020 10:56	WG1468990
1,2-Dichloroethane	U		0.0819	0.500	1	05/01/2020 10:56	WG1468990
1,1-Dichloroethene	U		0.188	0.500	1	05/01/2020 10:56	WG1468990
cis-1,2-Dichloroethene	54.1		0.126	0.500	1	05/01/2020 10:56	WG1468990
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/01/2020 10:56	WG1468990
1,2-Dichloropropane	U		0.149	0.500	1	05/01/2020 10:56	WG1468990
1,1-Dichloropropene	U		0.142	0.500	1	05/01/2020 10:56	WG1468990
1,3-Dichloropropane	U		0.109	1.00	1	05/01/2020 10:56	WG1468990
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/01/2020 10:56	WG1468990
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/01/2020 10:56	WG1468990
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.467	5.00	1	05/01/2020 10:56	WG1468990
2,2-Dichloropropane	U		0.161	0.500	1	05/01/2020 10:56	WG1468990
Di-isopropyl ether	U		0.105	0.500	1	05/01/2020 10:56	WG1468990
Ethylbenzene	U		0.137	0.500	1	05/01/2020 10:56	WG1468990
Hexachloro-1,3-butadiene	U	<u>JO J4</u>	0.337	1.00	1	05/01/2020 10:56	WG1468990
2-Hexanone	U		0.787	5.00	1	05/01/2020 10:56	WG1468990
n-Hexane	U		0.749	5.00	1	05/01/2020 10:56	WG1468990
Iodomethane	U		6.00	10.0	1	05/01/2020 10:56	WG1468990
Isopropylbenzene	U		0.105	0.500	1	05/01/2020 10:56	WG1468990
p-Isopropyltoluene	U		0.120	0.500	1	05/01/2020 10:56	WG1468990
2-Butanone (MEK)	U		1.19	5.00	1	05/01/2020 10:56	WG1468990
Methylene Chloride	U		0.430	2.50	1	05/01/2020 10:56	WG1468990
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/01/2020 10:56	WG1468990
Methyl tert-butyl ether	U		0.101	0.500	1	05/01/2020 10:56	WG1468990
Naphthalene	U		0.174	2.50	1	05/01/2020 10:56	WG1468990
n-Propylbenzene	U		0.0993	0.500	1	05/01/2020 10:56	WG1468990
Styrene	U	<u>JO</u>	0.118	0.500	1	05/01/2020 10:56	WG1468990
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/01/2020 10:56	WG1468990
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/01/2020 10:56	WG1468990
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/01/2020 10:56	WG1468990
Tetrachloroethene	U		0.300	0.500	1	05/01/2020 10:56	WG1468990
Toluene	U		0.278	0.500	1	05/01/2020 10:56	WG1468990
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/05/2020 03:53	WG1470366
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.481	1.00	1	05/01/2020 10:56	WG1468990
1,1,1-Trichloroethane	U		0.149	0.500	1	05/01/2020 10:56	WG1468990
1,1,2-Trichloroethane	U		0.158	0.500	1	05/01/2020 10:56	WG1468990
Trichloroethene	10.7		0.190	0.500	1	05/01/2020 10:56	WG1468990
Trichlorofluoromethane	U		0.160	2.50	1	05/01/2020 10:56	WG1468990
1,2,3-Trichloropropane	U		0.237	2.50	1	05/01/2020 10:56	WG1468990
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/01/2020 10:56	WG1468990
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 10:56	WG1468990
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 10:56	WG1468990
Vinyl acetate	U	<u>JO</u>	0.692	5.00	1	05/01/2020 10:56	WG1468990
Vinyl chloride	4.52		0.234	0.500	1	05/01/2020 10:56	WG1468990
Xylenes, Total	U		0.174	1.50	1	05/01/2020 10:56	WG1468990
(S) Toluene-d8	103			80.0-120		05/01/2020 10:56	WG1468990
(S) Toluene-d8	107			80.0-120		05/05/2020 03:53	WG1470366
(S) 4-Bromofluorobenzene	93.7			77.0-126		05/01/2020 10:56	WG1468990
(S) 4-Bromofluorobenzene	99.6			77.0-126		05/05/2020 03:53	WG1470366

- 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) 1,2-Dichloroethane-d4	109			70.0-130		05/01/2020 10:56	WG1468990
(S) 1,2-Dichloroethane-d4	83.7			70.0-130		05/05/2020 03:53	WG1470366

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	497000		8450	20000	1	04/30/2020 13:16	WG1467744

Sample Narrative:

L1212802-06 WG1467744: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	18600		379	1000	1	04/28/2020 22:20	WG1467229
Nitrate	U		48.0	100	1	04/28/2020 22:20	WG1467229
Sulfate	1240	J	594	5000	1	04/28/2020 22:20	WG1467229

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)	5070		102	1000	1	04/30/2020 00:56	WG1467996

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	10500		48.9	100	1	05/04/2020 11:11	WG1467597
Manganese	385		1.32	5.00	1	05/04/2020 11:11	WG1467597

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	14200		2.87	6.78	10	04/30/2020 11:05	WG1468508
Ethane	10.4		0.296	1.29	1	04/29/2020 14:30	WG1467818
Ethene	59.2		0.422	1.27	1	04/29/2020 14:30	WG1467818

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		11.3	25.0	1	05/01/2020 11:17	WG1468990
Acrylonitrile	U		0.671	5.00	1	05/01/2020 11:17	WG1468990
Benzene	18.3		0.0941	0.500	1	05/01/2020 11:17	WG1468990
Bromobenzene	U		0.118	0.500	1	05/01/2020 11:17	WG1468990
Bromodichloromethane	U		0.136	0.500	1	05/01/2020 11:17	WG1468990
Bromochloromethane	U		0.128	0.500	1	05/01/2020 11:17	WG1468990
Bromoform	U		0.129	0.500	1	05/01/2020 11:17	WG1468990
Bromomethane	U	JO	0.605	2.50	1	05/01/2020 11:17	WG1468990
n-Butylbenzene	U		0.157	0.500	1	05/01/2020 11:17	WG1468990
sec-Butylbenzene	U		0.125	0.500	1	05/01/2020 11:17	WG1468990
tert-Butylbenzene	U		0.127	0.500	1	05/01/2020 11:17	WG1468990
Carbon disulfide	U		0.0962	0.500	1	05/01/2020 11:17	WG1468990
Carbon tetrachloride	U		0.128	0.500	1	05/01/2020 11:17	WG1468990
Chlorobenzene	U		0.117	0.500	1	05/01/2020 11:17	WG1468990
Chlorodibromomethane	U		0.140	0.500	1	05/01/2020 11:17	WG1468990
Chloroethane	U		0.192	2.50	1	05/01/2020 11:17	WG1468990
Chloroform	U		0.111	0.500	1	05/01/2020 11:17	WG1468990
Chloromethane	U		0.960	1.25	1	05/01/2020 11:17	WG1468990
2-Chlorotoluene	U		0.106	0.500	1	05/01/2020 11:17	WG1468990
4-Chlorotoluene	U		0.114	0.500	1	05/01/2020 11:17	WG1468990

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
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.276	2.50	1	05/01/2020 11:17	WG1468990
1,2-Dibromoethane	U		0.126	0.500	1	05/01/2020 11:17	WG1468990
Dibromomethane	U		0.122	0.500	1	05/01/2020 11:17	WG1468990
1,2-Dichlorobenzene	U		0.107	0.500	1	05/01/2020 11:17	WG1468990
1,3-Dichlorobenzene	U		0.299	0.500	1	05/01/2020 11:17	WG1468990
1,4-Dichlorobenzene	U		0.120	0.500	1	05/01/2020 11:17	WG1468990
Dichlorodifluoromethane	U		0.374	2.50	1	05/01/2020 11:17	WG1468990
1,1-Dichloroethane	U		0.100	0.500	1	05/01/2020 11:17	WG1468990
1,2-Dichloroethane	U		0.0819	0.500	1	05/01/2020 11:17	WG1468990
1,1-Dichloroethene	U		0.188	0.500	1	05/01/2020 11:17	WG1468990
cis-1,2-Dichloroethene	1.04		0.126	0.500	1	05/01/2020 11:17	WG1468990
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/01/2020 11:17	WG1468990
1,2-Dichloropropane	U		0.149	0.500	1	05/01/2020 11:17	WG1468990
1,1-Dichloropropene	U		0.142	0.500	1	05/01/2020 11:17	WG1468990
1,3-Dichloropropane	U		0.109	1.00	1	05/01/2020 11:17	WG1468990
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/01/2020 11:17	WG1468990
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/01/2020 11:17	WG1468990
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.467	5.00	1	05/01/2020 11:17	WG1468990
2,2-Dichloropropane	U		0.161	0.500	1	05/01/2020 11:17	WG1468990
Di-isopropyl ether	0.119	<u>J</u>	0.105	0.500	1	05/01/2020 11:17	WG1468990
Ethylbenzene	U		0.137	0.500	1	05/01/2020 11:17	WG1468990
Hexachloro-1,3-butadiene	U	<u>JO J4</u>	0.337	1.00	1	05/01/2020 11:17	WG1468990
2-Hexanone	U		0.787	5.00	1	05/01/2020 11:17	WG1468990
n-Hexane	U		0.749	5.00	1	05/01/2020 11:17	WG1468990
Iodomethane	U		6.00	10.0	1	05/01/2020 11:17	WG1468990
Isopropylbenzene	U		0.105	0.500	1	05/01/2020 11:17	WG1468990
p-Isopropyltoluene	U		0.120	0.500	1	05/01/2020 11:17	WG1468990
2-Butanone (MEK)	U		1.19	5.00	1	05/01/2020 11:17	WG1468990
Methylene Chloride	U		0.430	2.50	1	05/01/2020 11:17	WG1468990
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/01/2020 11:17	WG1468990
Methyl tert-butyl ether	U		0.101	0.500	1	05/01/2020 11:17	WG1468990
Naphthalene	U		0.174	2.50	1	05/01/2020 11:17	WG1468990
n-Propylbenzene	U		0.0993	0.500	1	05/01/2020 11:17	WG1468990
Styrene	U	<u>JO</u>	0.118	0.500	1	05/01/2020 11:17	WG1468990
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/01/2020 11:17	WG1468990
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/01/2020 11:17	WG1468990
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/01/2020 11:17	WG1468990
Tetrachloroethene	U		0.300	0.500	1	05/01/2020 11:17	WG1468990
Toluene	U		0.278	0.500	1	05/01/2020 11:17	WG1468990
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/05/2020 04:13	WG1470366
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.481	1.00	1	05/01/2020 11:17	WG1468990
1,1,1-Trichloroethane	U		0.149	0.500	1	05/01/2020 11:17	WG1468990
1,1,2-Trichloroethane	U		0.158	0.500	1	05/01/2020 11:17	WG1468990
Trichloroethene	U		0.190	0.500	1	05/01/2020 11:17	WG1468990
Trichlorofluoromethane	U		0.160	2.50	1	05/01/2020 11:17	WG1468990
1,2,3-Trichloropropane	U		0.237	2.50	1	05/01/2020 11:17	WG1468990
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/01/2020 11:17	WG1468990
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 11:17	WG1468990
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 11:17	WG1468990
Vinyl acetate	U	<u>JO</u>	0.692	5.00	1	05/01/2020 11:17	WG1468990
Vinyl chloride	53.2		0.234	0.500	1	05/01/2020 11:17	WG1468990
Xylenes, Total	U		0.174	1.50	1	05/01/2020 11:17	WG1468990
(S) Toluene-d8	101			80.0-120		05/01/2020 11:17	WG1468990
(S) Toluene-d8	108			80.0-120		05/05/2020 04:13	WG1470366
(S) 4-Bromofluorobenzene	90.4			77.0-126		05/01/2020 11:17	WG1468990
(S) 4-Bromofluorobenzene	101			77.0-126		05/05/2020 04:13	WG1470366

- 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) 1,2-Dichloroethane-d4	112			70.0-130		05/01/2020 11:17	WG1468990
(S) 1,2-Dichloroethane-d4	84.3			70.0-130		05/05/2020 04:13	WG1470366

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	457000		8450	20000	1	04/30/2020 13:24	WG1467744

Sample Narrative:

L1212802-07 WG1467744: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	39000		379	1000	1	04/28/2020 22:38	WG1467229
Nitrate	U		48.0	100	1	04/28/2020 22:38	WG1467229
Sulfate	14400		594	5000	1	04/28/2020 22:38	WG1467229

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)	3500	<u>B</u>	102	1000	1	04/30/2020 01:09	WG1467996

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	11100		48.9	100	1	05/04/2020 11:27	WG1467597
Manganese	2140		1.32	5.00	1	05/04/2020 11:27	WG1467597

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	955		0.287	0.678	1	04/29/2020 14:34	WG1467818
Ethane	24.2		0.296	1.29	1	04/29/2020 14:34	WG1467818
Ethene	U		0.422	1.27	1	04/29/2020 14:34	WG1467818

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		11.3	25.0	1	05/01/2020 11:37	WG1468990
Acrylonitrile	U		0.671	5.00	1	05/01/2020 11:37	WG1468990
Benzene	0.704		0.0941	0.500	1	05/01/2020 11:37	WG1468990
Bromobenzene	U		0.118	0.500	1	05/01/2020 11:37	WG1468990
Bromodichloromethane	U		0.136	0.500	1	05/01/2020 11:37	WG1468990
Bromochloromethane	U		0.128	0.500	1	05/01/2020 11:37	WG1468990
Bromoform	U		0.129	0.500	1	05/01/2020 11:37	WG1468990
Bromomethane	U	<u>JO</u>	0.605	2.50	1	05/01/2020 11:37	WG1468990
n-Butylbenzene	U		0.157	0.500	1	05/01/2020 11:37	WG1468990
sec-Butylbenzene	U		0.125	0.500	1	05/01/2020 11:37	WG1468990
tert-Butylbenzene	U		0.127	0.500	1	05/01/2020 11:37	WG1468990
Carbon disulfide	U		0.0962	0.500	1	05/01/2020 11:37	WG1468990
Carbon tetrachloride	U		0.128	0.500	1	05/01/2020 11:37	WG1468990
Chlorobenzene	U		0.117	0.500	1	05/01/2020 11:37	WG1468990
Chlorodibromomethane	U		0.140	0.500	1	05/01/2020 11:37	WG1468990
Chloroethane	U		0.192	2.50	1	05/01/2020 11:37	WG1468990
Chloroform	U		0.111	0.500	1	05/01/2020 11:37	WG1468990
Chloromethane	U		0.960	1.25	1	05/01/2020 11:37	WG1468990
2-Chlorotoluene	U		0.106	0.500	1	05/01/2020 11:37	WG1468990
4-Chlorotoluene	U		0.114	0.500	1	05/01/2020 11:37	WG1468990

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
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.276	2.50	1	05/01/2020 11:37	WG1468990
1,2-Dibromoethane	U		0.126	0.500	1	05/01/2020 11:37	WG1468990
Dibromomethane	U		0.122	0.500	1	05/01/2020 11:37	WG1468990
1,2-Dichlorobenzene	U		0.107	0.500	1	05/01/2020 11:37	WG1468990
1,3-Dichlorobenzene	U		0.299	0.500	1	05/01/2020 11:37	WG1468990
1,4-Dichlorobenzene	U		0.120	0.500	1	05/01/2020 11:37	WG1468990
Dichlorodifluoromethane	U		0.374	2.50	1	05/01/2020 11:37	WG1468990
1,1-Dichloroethane	U		0.100	0.500	1	05/01/2020 11:37	WG1468990
1,2-Dichloroethane	U		0.0819	0.500	1	05/01/2020 11:37	WG1468990
1,1-Dichloroethene	U		0.188	0.500	1	05/01/2020 11:37	WG1468990
cis-1,2-Dichloroethene	17.5		0.126	0.500	1	05/01/2020 11:37	WG1468990
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/01/2020 11:37	WG1468990
1,2-Dichloropropane	U		0.149	0.500	1	05/01/2020 11:37	WG1468990
1,1-Dichloropropene	U		0.142	0.500	1	05/01/2020 11:37	WG1468990
1,3-Dichloropropane	U		0.109	1.00	1	05/01/2020 11:37	WG1468990
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/01/2020 11:37	WG1468990
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/01/2020 11:37	WG1468990
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.467	5.00	1	05/01/2020 11:37	WG1468990
2,2-Dichloropropane	U		0.161	0.500	1	05/01/2020 11:37	WG1468990
Di-isopropyl ether	0.113	<u>J</u>	0.105	0.500	1	05/01/2020 11:37	WG1468990
Ethylbenzene	U		0.137	0.500	1	05/01/2020 11:37	WG1468990
Hexachloro-1,3-butadiene	U	<u>JO J4</u>	0.337	1.00	1	05/01/2020 11:37	WG1468990
2-Hexanone	U		0.787	5.00	1	05/01/2020 11:37	WG1468990
n-Hexane	U		0.749	5.00	1	05/01/2020 11:37	WG1468990
Iodomethane	U		6.00	10.0	1	05/01/2020 11:37	WG1468990
Isopropylbenzene	U		0.105	0.500	1	05/01/2020 11:37	WG1468990
p-Isopropyltoluene	U		0.120	0.500	1	05/01/2020 11:37	WG1468990
2-Butanone (MEK)	U		1.19	5.00	1	05/01/2020 11:37	WG1468990
Methylene Chloride	U		0.430	2.50	1	05/01/2020 11:37	WG1468990
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/01/2020 11:37	WG1468990
Methyl tert-butyl ether	U		0.101	0.500	1	05/01/2020 11:37	WG1468990
Naphthalene	U		0.174	2.50	1	05/01/2020 11:37	WG1468990
n-Propylbenzene	U		0.0993	0.500	1	05/01/2020 11:37	WG1468990
Styrene	U	<u>JO</u>	0.118	0.500	1	05/01/2020 11:37	WG1468990
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/01/2020 11:37	WG1468990
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/01/2020 11:37	WG1468990
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/01/2020 11:37	WG1468990
Tetrachloroethene	U		0.300	0.500	1	05/01/2020 11:37	WG1468990
Toluene	0.434	<u>J</u>	0.278	0.500	1	05/01/2020 11:37	WG1468990
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/05/2020 08:10	WG1470366
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.481	1.00	1	05/01/2020 11:37	WG1468990
1,1,1-Trichloroethane	U		0.149	0.500	1	05/01/2020 11:37	WG1468990
1,1,2-Trichloroethane	U		0.158	0.500	1	05/01/2020 11:37	WG1468990
Trichloroethene	U		0.190	0.500	1	05/01/2020 11:37	WG1468990
Trichlorofluoromethane	U		0.160	2.50	1	05/01/2020 11:37	WG1468990
1,2,3-Trichloropropane	U		0.237	2.50	1	05/01/2020 11:37	WG1468990
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/01/2020 11:37	WG1468990
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 11:37	WG1468990
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 11:37	WG1468990
Vinyl acetate	U	<u>JO</u>	0.692	5.00	1	05/01/2020 11:37	WG1468990
Vinyl chloride	23.6		0.234	0.500	1	05/01/2020 11:37	WG1468990
Xylenes, Total	U		0.174	1.50	1	05/01/2020 11:37	WG1468990
(S) Toluene-d8	102			80.0-120		05/01/2020 11:37	WG1468990
(S) Toluene-d8	108			80.0-120		05/05/2020 08:10	WG1470366
(S) 4-Bromofluorobenzene	93.9			77.0-126		05/01/2020 11:37	WG1468990
(S) 4-Bromofluorobenzene	104			77.0-126		05/05/2020 08:10	WG1470366

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) 1,2-Dichloroethane-d4	111			70.0-130		05/01/2020 11:37	WG1468990
(S) 1,2-Dichloroethane-d4	87.4			70.0-130		05/05/2020 08:10	WG1470366

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		11.3	25.0	1	05/01/2020 07:30	WG1468990
Acrylonitrile	U		0.671	5.00	1	05/01/2020 07:30	WG1468990
Benzene	U		0.0941	0.500	1	05/01/2020 07:30	WG1468990
Bromobenzene	U		0.118	0.500	1	05/01/2020 07:30	WG1468990
Bromodichloromethane	U		0.136	0.500	1	05/01/2020 07:30	WG1468990
Bromochloromethane	U		0.128	0.500	1	05/01/2020 07:30	WG1468990
Bromoform	U		0.129	0.500	1	05/01/2020 07:30	WG1468990
Bromomethane	U	<u>JO</u>	0.605	2.50	1	05/01/2020 07:30	WG1468990
n-Butylbenzene	U		0.157	0.500	1	05/01/2020 07:30	WG1468990
sec-Butylbenzene	U		0.125	0.500	1	05/01/2020 07:30	WG1468990
tert-Butylbenzene	U		0.127	0.500	1	05/01/2020 07:30	WG1468990
Carbon disulfide	U		0.0962	0.500	1	05/01/2020 07:30	WG1468990
Carbon tetrachloride	U		0.128	0.500	1	05/01/2020 07:30	WG1468990
Chlorobenzene	U		0.117	0.500	1	05/01/2020 07:30	WG1468990
Chlorodibromomethane	U		0.140	0.500	1	05/01/2020 07:30	WG1468990
Chloroethane	U		0.192	2.50	1	05/01/2020 07:30	WG1468990
Chloroform	U		0.111	0.500	1	05/01/2020 07:30	WG1468990
Chloromethane	U		0.960	1.25	1	05/01/2020 07:30	WG1468990
2-Chlorotoluene	U		0.106	0.500	1	05/01/2020 07:30	WG1468990
4-Chlorotoluene	U		0.114	0.500	1	05/01/2020 07:30	WG1468990
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.276	2.50	1	05/01/2020 07:30	WG1468990
1,2-Dibromoethane	U		0.126	0.500	1	05/01/2020 07:30	WG1468990
Dibromomethane	U		0.122	0.500	1	05/01/2020 07:30	WG1468990
1,2-Dichlorobenzene	U		0.107	0.500	1	05/01/2020 07:30	WG1468990
1,3-Dichlorobenzene	U		0.299	0.500	1	05/01/2020 07:30	WG1468990
1,4-Dichlorobenzene	U		0.120	0.500	1	05/01/2020 07:30	WG1468990
Dichlorodifluoromethane	U		0.374	2.50	1	05/01/2020 07:30	WG1468990
1,1-Dichloroethane	U		0.100	0.500	1	05/01/2020 07:30	WG1468990
1,2-Dichloroethane	U		0.0819	0.500	1	05/01/2020 07:30	WG1468990
1,1-Dichloroethene	U		0.188	0.500	1	05/01/2020 07:30	WG1468990
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/01/2020 07:30	WG1468990
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/01/2020 07:30	WG1468990
1,2-Dichloropropane	U		0.149	0.500	1	05/01/2020 07:30	WG1468990
1,1-Dichloropropene	U		0.142	0.500	1	05/01/2020 07:30	WG1468990
1,3-Dichloropropane	U		0.109	1.00	1	05/01/2020 07:30	WG1468990
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/01/2020 07:30	WG1468990
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/01/2020 07:30	WG1468990
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.467	5.00	1	05/01/2020 07:30	WG1468990
2,2-Dichloropropane	U		0.161	0.500	1	05/01/2020 07:30	WG1468990
Di-isopropyl ether	U		0.105	0.500	1	05/01/2020 07:30	WG1468990
Ethylbenzene	U		0.137	0.500	1	05/01/2020 07:30	WG1468990
Hexachloro-1,3-butadiene	U	<u>JO J4</u>	0.337	1.00	1	05/01/2020 07:30	WG1468990
2-Hexanone	U		0.787	5.00	1	05/01/2020 07:30	WG1468990
n-Hexane	U		0.749	5.00	1	05/01/2020 07:30	WG1468990
Iodomethane	U		6.00	10.0	1	05/01/2020 07:30	WG1468990
Isopropylbenzene	U		0.105	0.500	1	05/01/2020 07:30	WG1468990
p-Isopropyltoluene	U		0.120	0.500	1	05/01/2020 07:30	WG1468990
2-Butanone (MEK)	U		1.19	5.00	1	05/01/2020 07:30	WG1468990
Methylene Chloride	U		0.430	2.50	1	05/01/2020 07:30	WG1468990
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/01/2020 07:30	WG1468990
Methyl tert-butyl ether	U		0.101	0.500	1	05/01/2020 07:30	WG1468990
Naphthalene	0.224	<u>B J</u>	0.174	2.50	1	05/01/2020 07:30	WG1468990
n-Propylbenzene	U		0.0993	0.500	1	05/01/2020 07:30	WG1468990
Styrene	U	<u>JO</u>	0.118	0.500	1	05/01/2020 07:30	WG1468990
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/01/2020 07:30	WG1468990
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/01/2020 07:30	WG1468990

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-Trichlorotrifluoroethane	U		0.180	0.500	1	05/01/2020 07:30	WG1468990
Tetrachloroethene	U		0.300	0.500	1	05/01/2020 07:30	WG1468990
Toluene	U		0.278	0.500	1	05/01/2020 07:30	WG1468990
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/05/2020 00:31	WG1470366
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.481	1.00	1	05/01/2020 07:30	WG1468990
1,1,1-Trichloroethane	U		0.149	0.500	1	05/01/2020 07:30	WG1468990
1,1,2-Trichloroethane	U		0.158	0.500	1	05/01/2020 07:30	WG1468990
Trichloroethene	U		0.190	0.500	1	05/01/2020 07:30	WG1468990
Trichlorofluoromethane	U		0.160	2.50	1	05/01/2020 07:30	WG1468990
1,2,3-Trichloropropane	U		0.237	2.50	1	05/01/2020 07:30	WG1468990
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/01/2020 07:30	WG1468990
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 07:30	WG1468990
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/01/2020 07:30	WG1468990
Vinyl acetate	U	<u>JO</u>	0.692	5.00	1	05/01/2020 07:30	WG1468990
Vinyl chloride	U		0.234	0.500	1	05/01/2020 07:30	WG1468990
Xylenes, Total	U		0.174	1.50	1	05/01/2020 07:30	WG1468990
(S) Toluene-d8	106			80.0-120		05/01/2020 07:30	WG1468990
(S) Toluene-d8	106			80.0-120		05/05/2020 00:31	WG1470366
(S) 4-Bromofluorobenzene	92.0			77.0-126		05/01/2020 07:30	WG1468990
(S) 4-Bromofluorobenzene	105			77.0-126		05/05/2020 00:31	WG1470366
(S) 1,2-Dichloroethane-d4	102			70.0-130		05/01/2020 07:30	WG1468990
(S) 1,2-Dichloroethane-d4	89.3			70.0-130		05/05/2020 00:31	WG1470366

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



Method Blank (MB)

(MB) R3523467-1 04/30/20 10:41

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1212718-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1212718-01 04/30/20 11:29 • (DUP) R3523467-3 04/30/20 11:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	83600	84600	1	1.19		20

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

L1213496-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1213496-02 04/30/20 14:33 • (DUP) R3523467-4 04/30/20 14:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	20000	19800	1	1.25		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3523467-2 04/30/20 11:11

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	98500	98.5	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3522864-1 04/28/20 12:34

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		379	1000
Nitrate	U		48.0	100
Sulfate	U		594	5000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1212725-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1212725-01 04/28/20 14:13 • (DUP) R3522864-3 04/28/20 14:31

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	ND	924	1	0.000		15
Nitrate	170	179	1	5.10		15
Sulfate	10300	10200	1	0.667		15

L1212802-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1212802-02 04/28/20 19:39 • (DUP) R3522864-6 04/28/20 20:33

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	14900	14800	1	0.893		15
Nitrate	U	0.000	1	0.000		15
Sulfate	5670	5620	1	0.894		15

Laboratory Control Sample (LCS)

(LCS) R3522864-2 04/28/20 12:52

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40000	40200	101	80.0-120	
Nitrate	8000	8270	103	80.0-120	
Sulfate	40000	39900	99.6	80.0-120	



L1212725-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1212725-02 04/28/20 14:52 • (MS) R3522864-4 04/28/20 15:10 • (MSD) R3522864-5 04/28/20 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 %
Chloride	50000	ND	51500	51700	102	102	1	80.0-120			0.268	15
Nitrate	5000	102	4870	5100	95.4	100	1	80.0-120			4.53	15
Sulfate	50000	9380	61400	61300	104	104	1	80.0-120			0.0774	15

L1212802-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1212802-04 04/28/20 21:26 • (MS) R3522864-7 04/28/20 21:44

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	46000	96300	101	1	80.0-120	
Nitrate	5000	92.1	5110	100	1	80.0-120	
Sulfate	50000	51200	103000	103	1	80.0-120	E

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3523382-1 04/29/20 13:58

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	394	J	102	1000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

L1212725-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1212725-01 04/29/20 16:20 • (DUP) R3523382-3 04/29/20 16:38

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	ND	563	1	0.000		20

6 Qc

L1212773-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1212773-03 04/29/20 20:21 • (DUP) R3523382-6 04/29/20 20:36

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	491	318	1	42.7	J P1	20

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3523382-2 04/29/20 14:39

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	79400	106	85.0-115	

L1212725-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1212725-03 04/29/20 18:26 • (MS) R3523382-4 04/29/20 18:53 • (MSD) R3523382-5 04/29/20 19:16

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	ND	53100	52900	106	105	1	80.0-120			0.528	20

L1212778-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1212778-03 04/29/20 22:48 • (MS) R3523382-7 04/29/20 23:18 • (MSD) R3523382-8 04/29/20 23:42

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	489	53100	55500	105	110	1	80.0-120			4.47	20



Method Blank (MB)

(MB) R3523388-1 04/29/20 22:57

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	371	↓	102	1000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1212802-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1212802-07 04/30/20 01:09 • (DUP) R3523388-3 04/30/20 01:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	3500	3470	1	0.861		20

L1212946-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1212946-03 04/30/20 04:23 • (DUP) R3523388-6 04/30/20 04:38

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	ND	828	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3523388-2 04/29/20 23:28

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	72500	96.7	85.0-115	

L1212946-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1212946-01 04/30/20 03:23 • (MS) R3523388-4 04/30/20 03:39 • (MSD) R3523388-5 04/30/20 03:58

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	1960	52200	52000	101	100	1	80.0-120			0.422	20

L1212946-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1212946-05 04/30/20 05:59 • (MS) R3523388-7 04/30/20 06:15 • (MSD) R3523388-8 04/30/20 06:31

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	ND	49100	47900	97.5	95.1	1	80.0-120			2.46	20



Method Blank (MB)

(MB) R3523990-1 05/01/20 17:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		48.9	100
Manganese	U		1.32	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) R3523990-2 05/01/20 17:04

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron	5000	5090	102	80.0-120	
Manganese	50.0	50.1	100	80.0-120	

L1212772-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1212772-05 05/01/20 17:08 • (MS) R3523990-4 05/01/20 17:15 • (MSD) R3523990-5 05/01/20 17:18

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	146	5190	5230	101	102	1	75.0-125			0.772	20
Manganese	50.0	14.8	64.9	64.0	100	98.5	1	75.0-125			1.35	20



Method Blank (MB)

(MB) R3524338-1 05/04/20 11:04

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		48.9	100
Manganese	U		1.32	5.00

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3524338-2 05/04/20 11:08

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron	5000	4980	99.6	80.0-120	
Manganese	50.0	50.2	100	80.0-120	

5 Sr

6 Qc

L1212802-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1212802-06 05/04/20 11:11 • (MS) R3524338-4 05/04/20 11:17 • (MSD) R3524338-5 05/04/20 11:20

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	10500	15200	15500	93.1	99.2	1	75.0-125			2.00	20
Manganese	50.0	385	428	439	84.7	108	1	75.0-125			2.67	20

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3523152-2 04/29/20 13:26

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1212795-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1212795-01 04/29/20 13:32 • (DUP) R3523152-3 04/29/20 14:24

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

L1212943-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1212943-04 04/29/20 14:46 • (DUP) R3523152-4 04/29/20 15:12

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	32.5	33.9	1	4.22		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

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

(LCS) R3523152-1 04/29/20 13:16 • (LCSD) R3523152-5 04/29/20 15:16

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	60.0	60.0	88.5	88.5	85.0-115			0.000	20
Ethane	129	123	118	95.3	91.5	85.0-115			4.15	20
Ethene	127	117	112	92.1	88.2	85.0-115			4.37	20



Method Blank (MB)

(MB) R3523567-2 04/30/20 10:47

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Methane	U		0.287	0.678

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1212350-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1212350-01 04/30/20 10:53 • (DUP) R3523567-3 04/30/20 11:24

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

L1213103-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1213103-05 04/30/20 11:38 • (DUP) R3523567-4 04/30/20 12:53

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Methane	9.35	9.68	1	3.47		20

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

(LCS) R3523567-1 04/30/20 10:42 • (LCSD) R3523567-5 04/30/20 12:56

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Methane	67.8	66.2	64.9	97.6	95.7	85.0-115			1.98	20



Method Blank (MB)

(MB) R3524427-2 05/01/20 06:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromochloromethane	U		0.128	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
trans-1,4-Dichloro-2-butene	U		0.467	5.00
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3524427-2 05/01/20 06:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	0.500
Hexachloro-1,3-butadiene	0.901	U	0.337	1.00
2-Hexanone	U		0.787	5.00
n-Hexane	U		0.749	5.00
Iodomethane	U		6.00	10.0
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	1.45	U	0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,2,4-Trichlorobenzene	0.764	U	0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	0.500
1,2,3-Trimethylbenzene	U		0.104	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl acetate	U		0.692	5.00
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	101			80.0-120
(S) 4-Bromofluorobenzene	90.1			77.0-126
(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)

(LCS) R3524427-1 05/01/20 05:38

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	25.0	32.3	129	19.0-160	
Acrylonitrile	25.0	26.1	104	55.0-149	
Benzene	5.00	4.71	94.2	70.0-123	
Bromobenzene	5.00	5.18	104	73.0-121	
Bromodichloromethane	5.00	5.04	101	75.0-120	
Bromochloromethane	5.00	5.00	100	76.0-122	
Bromoform	5.00	4.06	81.2	68.0-132	
Bromomethane	5.00	3.55	71.0	10.0-160	
n-Butylbenzene	5.00	4.72	94.4	73.0-125	
sec-Butylbenzene	5.00	4.99	99.8	75.0-125	
tert-Butylbenzene	5.00	4.96	99.2	76.0-124	
Carbon disulfide	5.00	4.58	91.6	61.0-128	
Carbon tetrachloride	5.00	5.07	101	68.0-126	
Chlorobenzene	5.00	4.37	87.4	80.0-121	
Chlorodibromomethane	5.00	4.70	94.0	77.0-125	
Chloroethane	5.00	4.36	87.2	47.0-150	
Chloroform	5.00	4.76	95.2	73.0-120	
Chloromethane	5.00	5.03	101	41.0-142	
2-Chlorotoluene	5.00	5.33	107	76.0-123	
4-Chlorotoluene	5.00	5.38	108	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	3.57	71.4	58.0-134	
1,2-Dibromoethane	5.00	4.58	91.6	80.0-122	
Dibromomethane	5.00	4.96	99.2	80.0-120	
1,2-Dichlorobenzene	5.00	4.15	83.0	79.0-121	
1,3-Dichlorobenzene	5.00	4.23	84.6	79.0-120	
1,4-Dichlorobenzene	5.00	4.30	86.0	79.0-120	
Dichlorodifluoromethane	5.00	5.72	114	51.0-149	
1,1-Dichloroethane	5.00	5.37	107	70.0-126	
1,2-Dichloroethane	5.00	5.38	108	70.0-128	
1,1-Dichloroethene	5.00	4.81	96.2	71.0-124	
cis-1,2-Dichloroethene	5.00	5.36	107	73.0-120	
trans-1,2-Dichloroethene	5.00	4.89	97.8	73.0-120	
1,2-Dichloropropane	5.00	4.95	99.0	77.0-125	
1,1-Dichloropropene	5.00	4.84	96.8	74.0-126	
1,3-Dichloropropane	5.00	4.64	92.8	80.0-120	
cis-1,3-Dichloropropene	5.00	5.08	102	80.0-123	
trans-1,3-Dichloropropene	5.00	4.80	96.0	78.0-124	
trans-1,4-Dichloro-2-butene	5.00	3.25	65.0	33.0-144	
2,2-Dichloropropane	5.00	5.27	105	58.0-130	
Di-isopropyl ether	5.00	5.36	107	58.0-138	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3524427-1 05/01/20 05:38

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	5.00	4.28	85.6	79.0-123	
Hexachloro-1,3-butadiene	5.00	2.49	49.8	54.0-138	J4
2-Hexanone	25.0	23.8	95.2	67.0-149	
n-Hexane	5.00	4.25	85.0	57.0-133	
Iodomethane	25.0	24.2	96.8	33.0-147	
Isopropylbenzene	5.00	4.47	89.4	76.0-127	
p-Isopropyltoluene	5.00	4.86	97.2	76.0-125	
2-Butanone (MEK)	25.0	27.7	111	44.0-160	
Methylene Chloride	5.00	4.85	97.0	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	28.1	112	68.0-142	
Methyl tert-butyl ether	5.00	5.01	100	68.0-125	
Naphthalene	5.00	4.25	85.0	54.0-135	
n-Propylbenzene	5.00	5.36	107	77.0-124	
Styrene	5.00	3.83	76.6	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	4.89	97.8	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	5.36	107	65.0-130	
1,1,2-Trichlorotrifluoroethane	5.00	4.67	93.4	69.0-132	
Tetrachloroethene	5.00	5.07	101	72.0-132	
Toluene	5.00	4.45	89.0	79.0-120	
1,2,4-Trichlorobenzene	5.00	3.24	64.8	57.0-137	
1,1,1-Trichloroethane	5.00	5.18	104	73.0-124	
1,1,2-Trichloroethane	5.00	4.75	95.0	80.0-120	
Trichloroethene	5.00	5.47	109	78.0-124	
Trichlorofluoromethane	5.00	5.45	109	59.0-147	
1,2,3-Trichloropropane	5.00	5.32	106	73.0-130	
1,2,4-Trimethylbenzene	5.00	5.02	100	76.0-121	
1,2,3-Trimethylbenzene	5.00	4.63	92.6	77.0-120	
1,3,5-Trimethylbenzene	5.00	5.20	104	76.0-122	
Vinyl acetate	25.0	17.4	69.6	11.0-160	
Vinyl chloride	5.00	4.31	86.2	67.0-131	
Xylenes, Total	15.0	13.0	86.7	79.0-123	
(S) Toluene-d8			98.2	80.0-120	
(S) 4-Bromofluorobenzene			95.4	77.0-126	
(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



Method Blank (MB)

(MB) R3524660-2 05/04/20 20:37

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,2,3-Trichlorobenzene	U		0.164	0.500
(S) Toluene-d8	110			80.0-120
(S) 4-Bromofluorobenzene	101			77.0-126
(S) 1,2-Dichloroethane-d4	85.4			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3524660-1 05/04/20 19:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,3-Trichlorobenzene	5.00	4.02	80.4	50.0-138	
(S) Toluene-d8			105	80.0-120	
(S) 4-Bromofluorobenzene			102	77.0-126	
(S) 1,2-Dichloroethane-d4			84.6	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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.

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

Qualifier	Description
B	The same analyte is found in the associated blank.
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.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
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.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
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}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

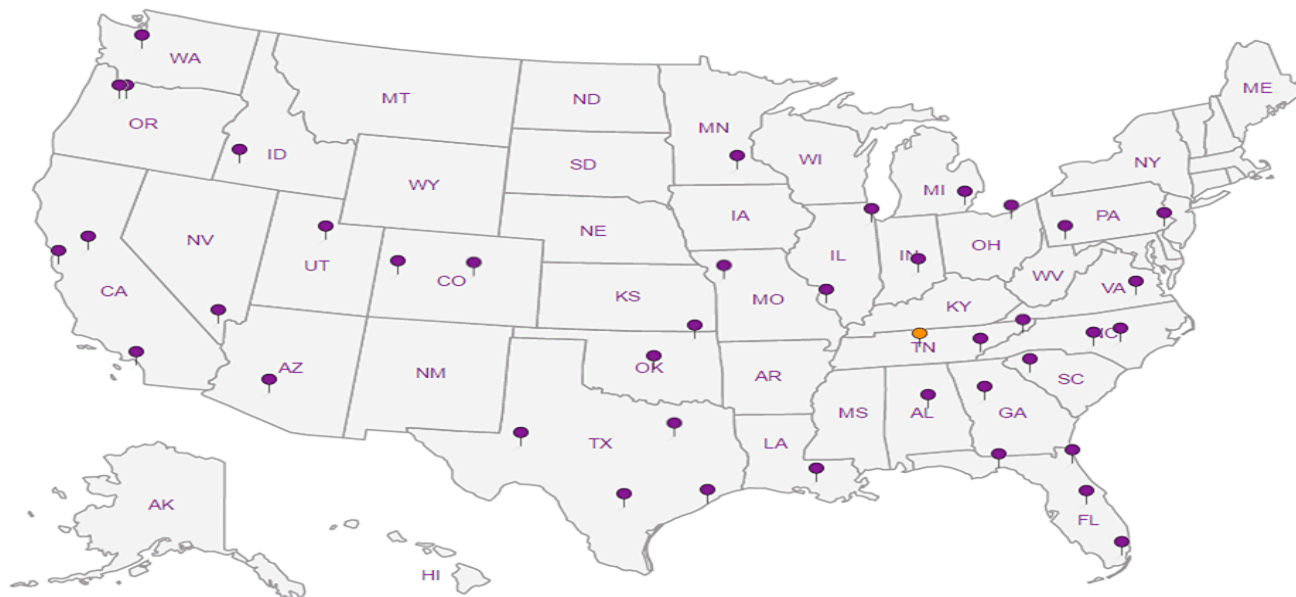
Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:

Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



Report to:
Brian O'Neal/Bill Haldeman

Email To:
boneal@pesenv.com;bhaldeman@pesenv.com;

Project Description:
American Linen

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

Please Circle:
PT MT CT ET

Phone: **206-529-3980**

Client Project #
1413.001.02.501E

Lab Project #
PESENVSWA-ALP

Collected by (print):
Sean Kounovsky

Site/Facility ID #
American Linen

P.O. #

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

Quote #
Date Results Needed

Immediately Packed on Ice N Y X

No. of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NO3,S04,Cl 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlHDPE-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs LL 8260D 40mlAmb-HCl
MW-317-042720	Grab	GW	40	4/27/20	0945	9	X	X	X	X	X	X	X
MW119-042720		GW	40		1040	9	X	X	X	X	X	X	X
MW-318-042720		GW	60		1130	9	X	X	X	X	X	X	X
MW113-042720		GW	75		1200	9	X	X	X	X	X	X	X
MW-319-042720		GW	75		1320	9	X	X	X	X	X	X	X
MW128-042720		GW	65		1345	9	X	X	X	X	X	X	X
MW-329-042720		GW	105		1400	9	X	X	X	X	X	X	X
TB-042720		GW	-		1500	1	X	X	X	X	X	X	X
		GW											
		GW											

SDG # **U212802**
D232

Accnum: **PESENVSWA**

Template: **T165314**

Prelogin: **P767343**

PM: **110 - Brian Ford**

PB:

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: *Nitrate has a 48 hour holding time.

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist		
COC Seal Present/Intact:	<input checked="" type="checkbox"/> NP	<input type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input 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 # **1676 2749 9193**

Relinquished by: (Signature)

Date: **4/27/20** Time: **1600**

Received by: (Signature)

Trip Blank Received: Yes No
HCl/MeOH TBR

Relinquished by: (Signature)

Date: _____ Time: _____

Received by: (Signature)

Temp **PA3** °C Bottles Received: **63**
3.9+1.3=4.2

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: _____ Time: _____

Received for lab by: (Signature)

Date: **4/28/20** Time: **930**

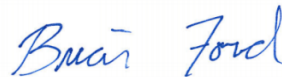
Hold: _____ Condition: **NCF / OK**

[Signature]

PES Environmental, Inc.- WA

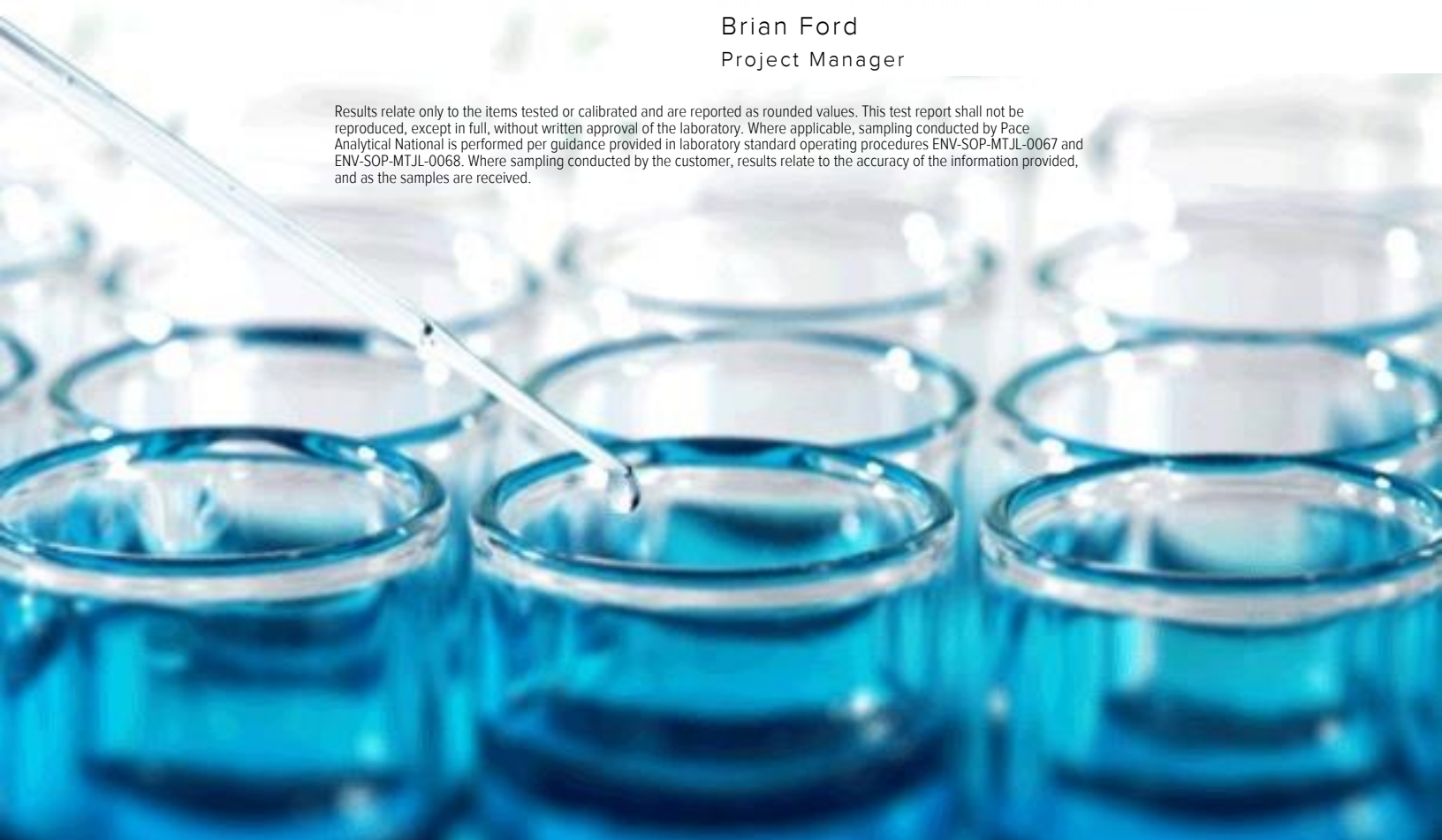
Sample Delivery Group: L1213148
Samples Received: 04/29/2020
Project Number: 1413.001.02.501E
Description: American Linen
Site: AMERICAN LINEN
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford
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.





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SAMPLE SUMMARY

FMW-140-042820 L1213148-01 GW

Collected by
Sean Kounovsky

Collected date/time
04/28/20 08:40

Received date/time
04/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1468407	1	05/01/20 13:37	05/01/20 13:37	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1468009	1	04/29/20 12:36	04/29/20 12:36	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1468666	1	04/30/20 22:02	04/30/20 22:02	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469077	1	05/01/20 08:50	05/01/20 12:20	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1468509	1	04/30/20 13:27	04/30/20 13:27	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1472090	1	05/07/20 15:34	05/07/20 15:34	ADM	Mt. Juliet, TN

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

MW-307-042820 L1213148-02 GW

Collected by
Sean Kounovsky

Collected date/time
04/28/20 10:35

Received date/time
04/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1468407	1	05/01/20 13:46	05/01/20 13:46	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1468009	1	04/29/20 13:04	04/29/20 13:04	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1468666	1	04/30/20 22:15	04/30/20 22:15	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469077	1	05/01/20 08:50	05/01/20 12:24	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1469578	1	05/02/20 15:37	05/02/20 15:37	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1468509	1	04/30/20 13:30	04/30/20 13:30	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469806	1	05/02/20 21:20	05/02/20 21:20	DWR	Mt. Juliet, TN

FMW-141-042820 L1213148-03 GW

Collected by
Sean Kounovsky

Collected date/time
04/28/20 11:00

Received date/time
04/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1468407	1	05/01/20 13:56	05/01/20 13:56	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1468009	1	04/29/20 13:47	04/29/20 13:47	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1468666	1	04/30/20 22:28	04/30/20 22:28	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469077	1	05/01/20 08:50	05/01/20 12:27	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1468509	1	04/30/20 13:34	04/30/20 13:34	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469806	5	05/02/20 21:39	05/02/20 21:39	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1471604	20	05/07/20 01:29	05/07/20 01:29	JAH	Mt. Juliet, TN

MW-305-042820 L1213148-04 GW

Collected by
Sean Kounovsky

Collected date/time
04/28/20 12:55

Received date/time
04/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1468407	1	05/01/20 14:05	05/01/20 14:05	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1468009	1	04/29/20 14:02	04/29/20 14:02	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1468666	1	04/30/20 22:43	04/30/20 22:43	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469077	1	05/01/20 08:50	05/01/20 12:30	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1469578	1	05/02/20 15:58	05/02/20 15:58	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1468509	1	04/30/20 13:37	04/30/20 13:37	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469806	1	05/02/20 21:58	05/02/20 21:58	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1471604	1	05/07/20 01:50	05/07/20 01:50	JAH	Mt. Juliet, TN

FMW-142-042820 L1213148-05 GW

Collected by
Sean Kounovsky

Collected date/time
04/28/20 13:50

Received date/time
04/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1468407	1	05/01/20 14:14	05/01/20 14:14	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1468009	1	04/29/20 14:45	04/29/20 14:45	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1468666	1	04/30/20 23:43	04/30/20 23:43	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469077	1	05/01/20 08:50	05/01/20 12:34	JPD	Mt. Juliet, TN

SAMPLE SUMMARY

FMW-142-042820 L1213148-05 GW

Collected by Collected date/time Received date/time
Sean Kounovsky 04/28/20 13:50 04/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method RSK175	WG1468509	1	04/30/20 13:39	04/30/20 13:39	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1469136	10	05/01/20 10:28	05/01/20 10:28	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469806	1	05/02/20 22:17	05/02/20 22:17	DWR	Mt. Juliet, TN

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

MW-306-042820 L1213148-06 GW

Collected by Collected date/time Received date/time
Sean Kounovsky 04/28/20 14:35 04/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1468407	1	05/01/20 14:33	05/01/20 14:33	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1468009	1	04/29/20 15:00	04/29/20 15:00	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1470661	1	05/05/20 13:44	05/05/20 13:44	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469077	1	05/01/20 08:50	05/01/20 12:37	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1469578	1	05/02/20 16:20	05/02/20 16:20	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1468509	1	04/30/20 13:43	04/30/20 13:43	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469806	1	05/02/20 22:36	05/02/20 22:36	DWR	Mt. Juliet, TN



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.

Brian Ford
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	587000		8450	20000	1	05/01/2020 13:37	WG1468407

Sample Narrative:

L1213148-01 WG1468407: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	26800		379	1000	1	04/29/2020 12:36	WG1468009
Nitrate	U		48.0	100	1	04/29/2020 12:36	WG1468009
Sulfate	47200		594	5000	1	04/29/2020 12:36	WG1468009

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)	7940		102	1000	1	04/30/2020 22:02	WG1468666

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	22000		48.9	100	1	05/01/2020 12:20	WG1469077
Manganese	2560		1.32	5.00	1	05/01/2020 12:20	WG1469077

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	4640		0.287	0.678	1	04/30/2020 13:27	WG1468509
Ethane	40.3		0.296	1.29	1	04/30/2020 13:27	WG1468509
Ethene	36.3		0.422	1.27	1	04/30/2020 13:27	WG1468509

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		11.3	25.0	1	05/07/2020 15:34	WG1472090
Acrylonitrile	U		0.671	5.00	1	05/07/2020 15:34	WG1472090
Benzene	43.3		0.0941	0.500	1	05/07/2020 15:34	WG1472090
Bromobenzene	U		0.118	0.500	1	05/07/2020 15:34	WG1472090
Bromodichloromethane	U		0.136	0.500	1	05/07/2020 15:34	WG1472090
Bromochloromethane	U		0.128	0.500	1	05/07/2020 15:34	WG1472090
Bromoform	U		0.129	0.500	1	05/07/2020 15:34	WG1472090
Bromomethane	U		0.605	2.50	1	05/07/2020 15:34	WG1472090
n-Butylbenzene	U		0.157	0.500	1	05/07/2020 15:34	WG1472090
sec-Butylbenzene	U		0.125	0.500	1	05/07/2020 15:34	WG1472090
tert-Butylbenzene	U		0.127	0.500	1	05/07/2020 15:34	WG1472090
Carbon disulfide	U		0.0962	0.500	1	05/07/2020 15:34	WG1472090
Carbon tetrachloride	U		0.128	0.500	1	05/07/2020 15:34	WG1472090
Chlorobenzene	U		0.117	0.500	1	05/07/2020 15:34	WG1472090
Chlorodibromomethane	U		0.140	0.500	1	05/07/2020 15:34	WG1472090
Chloroethane	U		0.192	2.50	1	05/07/2020 15:34	WG1472090
Chloroform	U		0.111	0.500	1	05/07/2020 15:34	WG1472090
Chloromethane	U		0.960	1.25	1	05/07/2020 15:34	WG1472090
2-Chlorotoluene	U		0.106	0.500	1	05/07/2020 15:34	WG1472090
4-Chlorotoluene	U		0.114	0.500	1	05/07/2020 15:34	WG1472090

- 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
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/07/2020 15:34	WG1472090
1,2-Dibromoethane	U		0.126	0.500	1	05/07/2020 15:34	WG1472090
Dibromomethane	U		0.122	0.500	1	05/07/2020 15:34	WG1472090
1,2-Dichlorobenzene	U		0.107	0.500	1	05/07/2020 15:34	WG1472090
1,3-Dichlorobenzene	U		0.299	0.500	1	05/07/2020 15:34	WG1472090
1,4-Dichlorobenzene	U		0.120	0.500	1	05/07/2020 15:34	WG1472090
Dichlorodifluoromethane	U		0.374	2.50	1	05/07/2020 15:34	WG1472090
1,1-Dichloroethane	0.370	U	0.100	0.500	1	05/07/2020 15:34	WG1472090
1,2-Dichloroethane	0.239	U	0.0819	0.500	1	05/07/2020 15:34	WG1472090
1,1-Dichloroethene	U		0.188	0.500	1	05/07/2020 15:34	WG1472090
cis-1,2-Dichloroethene	27.1		0.126	0.500	1	05/07/2020 15:34	WG1472090
trans-1,2-Dichloroethene	0.217	U	0.149	0.500	1	05/07/2020 15:34	WG1472090
1,2-Dichloropropane	U		0.149	0.500	1	05/07/2020 15:34	WG1472090
1,1-Dichloropropene	U		0.142	0.500	1	05/07/2020 15:34	WG1472090
1,3-Dichloropropane	U		0.109	1.00	1	05/07/2020 15:34	WG1472090
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/07/2020 15:34	WG1472090
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/07/2020 15:34	WG1472090
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/07/2020 15:34	WG1472090
2,2-Dichloropropane	U		0.161	0.500	1	05/07/2020 15:34	WG1472090
Di-isopropyl ether	0.479	U	0.105	0.500	1	05/07/2020 15:34	WG1472090
Ethylbenzene	U		0.137	0.500	1	05/07/2020 15:34	WG1472090
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/07/2020 15:34	WG1472090
2-Hexanone	U		0.787	5.00	1	05/07/2020 15:34	WG1472090
n-Hexane	U		0.749	5.00	1	05/07/2020 15:34	WG1472090
Iodomethane	U		0.554	5.00	1	05/07/2020 15:34	WG1472090
Isopropylbenzene	U		0.105	0.500	1	05/07/2020 15:34	WG1472090
p-Isopropyltoluene	U		0.120	0.500	1	05/07/2020 15:34	WG1472090
2-Butanone (MEK)	U		1.19	5.00	1	05/07/2020 15:34	WG1472090
Methylene Chloride	U		0.430	2.50	1	05/07/2020 15:34	WG1472090
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/07/2020 15:34	WG1472090
Methyl tert-butyl ether	0.333	U	0.101	0.500	1	05/07/2020 15:34	WG1472090
Naphthalene	U		0.174	2.50	1	05/07/2020 15:34	WG1472090
n-Propylbenzene	U		0.0993	0.500	1	05/07/2020 15:34	WG1472090
Styrene	U		0.118	0.500	1	05/07/2020 15:34	WG1472090
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/07/2020 15:34	WG1472090
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/07/2020 15:34	WG1472090
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/07/2020 15:34	WG1472090
Tetrachloroethene	U		0.300	0.500	1	05/07/2020 15:34	WG1472090
Toluene	U		0.278	0.500	1	05/07/2020 15:34	WG1472090
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/07/2020 15:34	WG1472090
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/07/2020 15:34	WG1472090
1,1,1-Trichloroethane	U		0.149	0.500	1	05/07/2020 15:34	WG1472090
1,1,2-Trichloroethane	U		0.158	0.500	1	05/07/2020 15:34	WG1472090
Trichloroethene	U		0.190	0.500	1	05/07/2020 15:34	WG1472090
Trichlorofluoromethane	U		0.160	2.50	1	05/07/2020 15:34	WG1472090
1,2,3-Trichloropropane	U		0.237	2.50	1	05/07/2020 15:34	WG1472090
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/07/2020 15:34	WG1472090
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/07/2020 15:34	WG1472090
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/07/2020 15:34	WG1472090
Vinyl acetate	U		0.692	5.00	1	05/07/2020 15:34	WG1472090
Vinyl chloride	147		0.234	0.500	1	05/07/2020 15:34	WG1472090
Xylenes, Total	U		0.174	1.50	1	05/07/2020 15:34	WG1472090
(S) Toluene-d8	98.2			80.0-120		05/07/2020 15:34	WG1472090
(S) 4-Bromofluorobenzene	90.9			77.0-126		05/07/2020 15:34	WG1472090
(S) 1,2-Dichloroethane-d4	88.1			70.0-130		05/07/2020 15:34	WG1472090

- 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	274000		8450	20000	1	05/01/2020 13:46	WG1468407

Sample Narrative:

L1213148-02 WG1468407: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	14800		379	1000	1	04/29/2020 13:04	WG1468009
Nitrate	U		48.0	100	1	04/29/2020 13:04	WG1468009
Sulfate	72000		594	5000	1	04/29/2020 13:04	WG1468009

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)	3560		102	1000	1	04/30/2020 22:15	WG1468666

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1190		48.9	100	1	05/01/2020 12:24	WG1469077
Manganese	172		1.32	5.00	1	05/01/2020 12:24	WG1469077

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	146	<u>B</u>	31.6	100	1	05/02/2020 15:37	WG1469578
(S) a,a,a-Trifluorotoluene(FID)	97.8			78.0-120		05/02/2020 15:37	WG1469578

Sample Narrative:

L1213148-02 WG1469578: No discernable petroleum pattern.

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	25.0		0.287	0.678	1	04/30/2020 13:30	WG1468509
Ethane	U		0.296	1.29	1	04/30/2020 13:30	WG1468509
Ethene	U		0.422	1.27	1	04/30/2020 13:30	WG1468509

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		11.3	25.0	1	05/02/2020 21:20	WG1469806
Acrylonitrile	U		0.671	5.00	1	05/02/2020 21:20	WG1469806
Benzene	0.172	<u>J</u>	0.0941	0.500	1	05/02/2020 21:20	WG1469806
Bromobenzene	U		0.118	0.500	1	05/02/2020 21:20	WG1469806
Bromodichloromethane	U		0.136	0.500	1	05/02/2020 21:20	WG1469806
Bromochloromethane	U		0.128	0.500	1	05/02/2020 21:20	WG1469806
Bromoform	U		0.129	0.500	1	05/02/2020 21:20	WG1469806
Bromomethane	U		0.605	2.50	1	05/02/2020 21:20	WG1469806
n-Butylbenzene	U		0.157	0.500	1	05/02/2020 21:20	WG1469806
sec-Butylbenzene	U		0.125	0.500	1	05/02/2020 21:20	WG1469806

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	
tert-Butylbenzene	U		0.127	0.500	1	05/02/2020 21:20	WG1469806
Carbon disulfide	6.95	JO	0.0962	0.500	1	05/02/2020 21:20	WG1469806
Carbon tetrachloride	U		0.128	0.500	1	05/02/2020 21:20	WG1469806
Chlorobenzene	U		0.117	0.500	1	05/02/2020 21:20	WG1469806
Chlorodibromomethane	U		0.140	0.500	1	05/02/2020 21:20	WG1469806
Chloroethane	U		0.192	2.50	1	05/02/2020 21:20	WG1469806
Chloroform	U		0.111	0.500	1	05/02/2020 21:20	WG1469806
Chloromethane	U		0.960	1.25	1	05/02/2020 21:20	WG1469806
2-Chlorotoluene	U		0.106	0.500	1	05/02/2020 21:20	WG1469806
4-Chlorotoluene	U		0.114	0.500	1	05/02/2020 21:20	WG1469806
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/02/2020 21:20	WG1469806
1,2-Dibromoethane	U		0.126	0.500	1	05/02/2020 21:20	WG1469806
Dibromomethane	U		0.122	0.500	1	05/02/2020 21:20	WG1469806
1,2-Dichlorobenzene	U		0.107	0.500	1	05/02/2020 21:20	WG1469806
1,3-Dichlorobenzene	U		0.299	0.500	1	05/02/2020 21:20	WG1469806
1,4-Dichlorobenzene	U		0.120	0.500	1	05/02/2020 21:20	WG1469806
Dichlorodifluoromethane	U		0.374	2.50	1	05/02/2020 21:20	WG1469806
1,1-Dichloroethane	U		0.100	0.500	1	05/02/2020 21:20	WG1469806
1,2-Dichloroethane	U		0.0819	0.500	1	05/02/2020 21:20	WG1469806
1,1-Dichloroethene	U		0.188	0.500	1	05/02/2020 21:20	WG1469806
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/02/2020 21:20	WG1469806
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/02/2020 21:20	WG1469806
1,2-Dichloropropane	U		0.149	0.500	1	05/02/2020 21:20	WG1469806
1,1-Dichloropropene	U		0.142	0.500	1	05/02/2020 21:20	WG1469806
1,3-Dichloropropane	U		0.109	1.00	1	05/02/2020 21:20	WG1469806
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/02/2020 21:20	WG1469806
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/02/2020 21:20	WG1469806
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/02/2020 21:20	WG1469806
2,2-Dichloropropane	U		0.161	0.500	1	05/02/2020 21:20	WG1469806
Di-isopropyl ether	U		0.105	0.500	1	05/02/2020 21:20	WG1469806
Ethylbenzene	U		0.137	0.500	1	05/02/2020 21:20	WG1469806
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/02/2020 21:20	WG1469806
2-Hexanone	U		0.787	5.00	1	05/02/2020 21:20	WG1469806
n-Hexane	U		0.749	5.00	1	05/02/2020 21:20	WG1469806
Iodomethane	U	JO	0.554	5.00	1	05/02/2020 21:20	WG1469806
Isopropylbenzene	U		0.105	0.500	1	05/02/2020 21:20	WG1469806
p-Isopropyltoluene	U		0.120	0.500	1	05/02/2020 21:20	WG1469806
2-Butanone (MEK)	U		1.19	5.00	1	05/02/2020 21:20	WG1469806
Methylene Chloride	U	JO	0.430	2.50	1	05/02/2020 21:20	WG1469806
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/02/2020 21:20	WG1469806
Methyl tert-butyl ether	U		0.101	0.500	1	05/02/2020 21:20	WG1469806
Naphthalene	U		0.174	2.50	1	05/02/2020 21:20	WG1469806
n-Propylbenzene	U		0.0993	0.500	1	05/02/2020 21:20	WG1469806
Styrene	U		0.118	0.500	1	05/02/2020 21:20	WG1469806
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/02/2020 21:20	WG1469806
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/02/2020 21:20	WG1469806
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/02/2020 21:20	WG1469806
Tetrachloroethene	U		0.300	0.500	1	05/02/2020 21:20	WG1469806
Toluene	0.452	J	0.278	0.500	1	05/02/2020 21:20	WG1469806
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/02/2020 21:20	WG1469806
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/02/2020 21:20	WG1469806
1,1,1-Trichloroethane	U		0.149	0.500	1	05/02/2020 21:20	WG1469806
1,1,2-Trichloroethane	U		0.158	0.500	1	05/02/2020 21:20	WG1469806
Trichloroethene	U		0.190	0.500	1	05/02/2020 21:20	WG1469806
Trichlorofluoromethane	U		0.160	2.50	1	05/02/2020 21:20	WG1469806
1,2,3-Trichloropropane	U		0.237	2.50	1	05/02/2020 21:20	WG1469806

- 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
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/02/2020 21:20	WG1469806
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/02/2020 21:20	WG1469806
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/02/2020 21:20	WG1469806
Vinyl acetate	U		0.692	5.00	1	05/02/2020 21:20	WG1469806
Vinyl chloride	U		0.234	0.500	1	05/02/2020 21:20	WG1469806
Xylenes, Total	U		0.174	1.50	1	05/02/2020 21:20	WG1469806
(S) Toluene-d8	109			80.0-120		05/02/2020 21:20	WG1469806
(S) 4-Bromofluorobenzene	103			77.0-126		05/02/2020 21:20	WG1469806
(S) 1,2-Dichloroethane-d4	108			70.0-130		05/02/2020 21:20	WG1469806

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	167000		8450	20000	1	05/01/2020 13:56	WG1468407

Sample Narrative:

L1213148-03 WG1468407: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	16500		379	1000	1	04/29/2020 13:47	WG1468009
Nitrate	86.6	J	48.0	100	1	04/29/2020 13:47	WG1468009
Sulfate	3090	J	594	5000	1	04/29/2020 13:47	WG1468009

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)	4570		102	1000	1	04/30/2020 22:28	WG1468666

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1610		48.9	100	1	05/01/2020 12:27	WG1469077
Manganese	407		1.32	5.00	1	05/01/2020 12:27	WG1469077

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	2910		0.287	0.678	1	04/30/2020 13:34	WG1468509
Ethane	33.1		0.296	1.29	1	04/30/2020 13:34	WG1468509
Ethene	322		0.422	1.27	1	04/30/2020 13:34	WG1468509

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		56.5	125	5	05/02/2020 21:39	WG1469806
Acrylonitrile	U		3.36	25.0	5	05/02/2020 21:39	WG1469806
Benzene	U		0.471	2.50	5	05/02/2020 21:39	WG1469806
Bromobenzene	U		0.590	2.50	5	05/02/2020 21:39	WG1469806
Bromodichloromethane	U		0.680	2.50	5	05/02/2020 21:39	WG1469806
Bromochloromethane	U		0.640	2.50	5	05/02/2020 21:39	WG1469806
Bromoform	U		0.645	2.50	5	05/02/2020 21:39	WG1469806
Bromomethane	U		3.03	12.5	5	05/02/2020 21:39	WG1469806
n-Butylbenzene	U		0.785	2.50	5	05/02/2020 21:39	WG1469806
sec-Butylbenzene	U		0.625	2.50	5	05/02/2020 21:39	WG1469806
tert-Butylbenzene	U		0.635	2.50	5	05/02/2020 21:39	WG1469806
Carbon disulfide	U	JO	0.481	2.50	5	05/02/2020 21:39	WG1469806
Carbon tetrachloride	U		0.640	2.50	5	05/02/2020 21:39	WG1469806
Chlorobenzene	U		0.585	2.50	5	05/02/2020 21:39	WG1469806
Chlorodibromomethane	U		0.700	2.50	5	05/02/2020 21:39	WG1469806
Chloroethane	U		0.960	12.5	5	05/02/2020 21:39	WG1469806
Chloroform	U		0.555	2.50	5	05/02/2020 21:39	WG1469806
Chloromethane	U		4.80	6.25	5	05/02/2020 21:39	WG1469806
2-Chlorotoluene	U		0.530	2.50	5	05/02/2020 21:39	WG1469806
4-Chlorotoluene	U		0.570	2.50	5	05/02/2020 21:39	WG1469806

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
1,2-Dibromo-3-Chloropropane	U		1.38	12.5	5	05/02/2020 21:39	WG1469806
1,2-Dibromoethane	U		0.630	2.50	5	05/02/2020 21:39	WG1469806
Dibromomethane	U		0.610	2.50	5	05/02/2020 21:39	WG1469806
1,2-Dichlorobenzene	U		0.535	2.50	5	05/02/2020 21:39	WG1469806
1,3-Dichlorobenzene	U		1.49	2.50	5	05/02/2020 21:39	WG1469806
1,4-Dichlorobenzene	U		0.600	2.50	5	05/02/2020 21:39	WG1469806
Dichlorodifluoromethane	U		1.87	12.5	5	05/02/2020 21:39	WG1469806
1,1-Dichloroethane	U		0.500	2.50	5	05/02/2020 21:39	WG1469806
1,2-Dichloroethane	U		0.409	2.50	5	05/02/2020 21:39	WG1469806
1,1-Dichloroethene	U		0.940	2.50	5	05/02/2020 21:39	WG1469806
cis-1,2-Dichloroethene	1300		2.52	10.0	20	05/07/2020 01:29	WG1471604
trans-1,2-Dichloroethene	4.62		0.745	2.50	5	05/02/2020 21:39	WG1469806
1,2-Dichloropropane	U		0.745	2.50	5	05/02/2020 21:39	WG1469806
1,1-Dichloropropene	U		0.710	2.50	5	05/02/2020 21:39	WG1469806
1,3-Dichloropropane	U		0.545	5.00	5	05/02/2020 21:39	WG1469806
cis-1,3-Dichloropropene	U		0.555	2.50	5	05/02/2020 21:39	WG1469806
trans-1,3-Dichloropropene	U		0.590	2.50	5	05/02/2020 21:39	WG1469806
trans-1,4-Dichloro-2-butene	U		2.34	25.0	5	05/02/2020 21:39	WG1469806
2,2-Dichloropropane	U		0.805	2.50	5	05/02/2020 21:39	WG1469806
Di-isopropyl ether	U		0.525	2.50	5	05/02/2020 21:39	WG1469806
Ethylbenzene	U		0.685	2.50	5	05/02/2020 21:39	WG1469806
Hexachloro-1,3-butadiene	U		1.69	5.00	5	05/02/2020 21:39	WG1469806
2-Hexanone	U		3.94	25.0	5	05/02/2020 21:39	WG1469806
n-Hexane	U		3.74	25.0	5	05/02/2020 21:39	WG1469806
Iodomethane	U	JO	2.77	25.0	5	05/02/2020 21:39	WG1469806
Isopropylbenzene	U		0.525	2.50	5	05/02/2020 21:39	WG1469806
p-Isopropyltoluene	U		0.600	2.50	5	05/02/2020 21:39	WG1469806
2-Butanone (MEK)	U		5.95	25.0	5	05/02/2020 21:39	WG1469806
Methylene Chloride	U	JO	2.15	12.5	5	05/02/2020 21:39	WG1469806
4-Methyl-2-pentanone (MIBK)	U		2.39	25.0	5	05/02/2020 21:39	WG1469806
Methyl tert-butyl ether	U		0.505	2.50	5	05/02/2020 21:39	WG1469806
Naphthalene	U		0.870	12.5	5	05/02/2020 21:39	WG1469806
n-Propylbenzene	U		0.497	2.50	5	05/02/2020 21:39	WG1469806
Styrene	U		0.590	2.50	5	05/02/2020 21:39	WG1469806
1,1,1,2-Tetrachloroethane	U		0.735	2.50	5	05/02/2020 21:39	WG1469806
1,1,2,2-Tetrachloroethane	U		0.665	2.50	5	05/02/2020 21:39	WG1469806
1,1,2-Trichlorotrifluoroethane	U		0.900	2.50	5	05/02/2020 21:39	WG1469806
Tetrachloroethene	U		1.50	2.50	5	05/02/2020 21:39	WG1469806
Toluene	U		1.39	2.50	5	05/02/2020 21:39	WG1469806
1,2,3-Trichlorobenzene	U		0.820	2.50	5	05/02/2020 21:39	WG1469806
1,2,4-Trichlorobenzene	U		2.41	5.00	5	05/02/2020 21:39	WG1469806
1,1,1-Trichloroethane	U		0.745	2.50	5	05/02/2020 21:39	WG1469806
1,1,2-Trichloroethane	U		0.790	2.50	5	05/02/2020 21:39	WG1469806
Trichloroethene	3.08		0.950	2.50	5	05/02/2020 21:39	WG1469806
Trichlorofluoromethane	U		0.800	12.5	5	05/02/2020 21:39	WG1469806
1,2,3-Trichloropropane	U		1.19	12.5	5	05/02/2020 21:39	WG1469806
1,2,4-Trimethylbenzene	U		1.61	2.50	5	05/02/2020 21:39	WG1469806
1,2,3-Trimethylbenzene	U		0.520	2.50	5	05/02/2020 21:39	WG1469806
1,3,5-Trimethylbenzene	U		0.520	2.50	5	05/02/2020 21:39	WG1469806
Vinyl acetate	U		3.46	25.0	5	05/02/2020 21:39	WG1469806
Vinyl chloride	468		1.17	2.50	5	05/02/2020 21:39	WG1469806
Xylenes, Total	U		0.870	7.50	5	05/02/2020 21:39	WG1469806
(S) Toluene-d8	107			80.0-120		05/02/2020 21:39	WG1469806
(S) Toluene-d8	97.3			80.0-120		05/07/2020 01:29	WG1471604
(S) 4-Bromofluorobenzene	102			77.0-126		05/02/2020 21:39	WG1469806
(S) 4-Bromofluorobenzene	82.0			77.0-126		05/07/2020 01:29	WG1471604

- 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) 1,2-Dichloroethane-d4	109			70.0-130		05/02/2020 21:39	WG1469806
(S) 1,2-Dichloroethane-d4	94.1			70.0-130		05/07/2020 01:29	WG1471604

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	105000		8450	20000	1	05/01/2020 14:05	WG1468407

Sample Narrative:

L1213148-04 WG1468407: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	48100		379	1000	1	04/29/2020 14:02	WG1468009
Nitrate	2100		48.0	100	1	04/29/2020 14:02	WG1468009
Sulfate	23000		594	5000	1	04/29/2020 14:02	WG1468009

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)	921	<u>B</u>	102	1000	1	04/30/2020 22:43	WG1468666

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	16000		48.9	100	1	05/01/2020 12:30	WG1469077
Manganese	221		1.32	5.00	1	05/01/2020 12:30	WG1469077

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	54.4	<u>B</u>	31.6	100	1	05/02/2020 15:58	WG1469578
(S) a,a,a-Trifluorotoluene(FID)	97.2			78.0-120		05/02/2020 15:58	WG1469578

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	04/30/2020 13:37	WG1468509
Ethane	U		0.296	1.29	1	04/30/2020 13:37	WG1468509
Ethene	U		0.422	1.27	1	04/30/2020 13:37	WG1468509

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		11.3	25.0	1	05/02/2020 21:58	WG1469806
Acrylonitrile	U		0.671	5.00	1	05/02/2020 21:58	WG1469806
Benzene	U		0.0941	0.500	1	05/02/2020 21:58	WG1469806
Bromobenzene	U		0.118	0.500	1	05/02/2020 21:58	WG1469806
Bromodichloromethane	U		0.136	0.500	1	05/02/2020 21:58	WG1469806
Bromochloromethane	U		0.128	0.500	1	05/02/2020 21:58	WG1469806
Bromoform	U		0.129	0.500	1	05/02/2020 21:58	WG1469806
Bromomethane	U		0.605	2.50	1	05/02/2020 21:58	WG1469806
n-Butylbenzene	U		0.157	0.500	1	05/02/2020 21:58	WG1469806
sec-Butylbenzene	U		0.125	0.500	1	05/02/2020 21:58	WG1469806
tert-Butylbenzene	U		0.127	0.500	1	05/02/2020 21:58	WG1469806
Carbon disulfide	U	<u>JO</u>	0.0962	0.500	1	05/02/2020 21:58	WG1469806
Carbon tetrachloride	0.273	<u>J</u>	0.128	0.500	1	05/02/2020 21:58	WG1469806

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	
Chlorobenzene	U		0.117	0.500	1	05/02/2020 21:58	WG1469806
Chlorodibromomethane	U		0.140	0.500	1	05/02/2020 21:58	WG1469806
Chloroethane	U		0.192	2.50	1	05/02/2020 21:58	WG1469806
Chloroform	U		0.111	0.500	1	05/02/2020 21:58	WG1469806
Chloromethane	U		0.960	1.25	1	05/02/2020 21:58	WG1469806
2-Chlorotoluene	U		0.106	0.500	1	05/02/2020 21:58	WG1469806
4-Chlorotoluene	U		0.114	0.500	1	05/02/2020 21:58	WG1469806
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/02/2020 21:58	WG1469806
1,2-Dibromoethane	U		0.126	0.500	1	05/02/2020 21:58	WG1469806
Dibromomethane	U		0.122	0.500	1	05/02/2020 21:58	WG1469806
1,2-Dichlorobenzene	U		0.107	0.500	1	05/02/2020 21:58	WG1469806
1,3-Dichlorobenzene	U		0.299	0.500	1	05/02/2020 21:58	WG1469806
1,4-Dichlorobenzene	U		0.120	0.500	1	05/02/2020 21:58	WG1469806
Dichlorodifluoromethane	U		0.374	2.50	1	05/02/2020 21:58	WG1469806
1,1-Dichloroethane	U		0.100	0.500	1	05/02/2020 21:58	WG1469806
1,2-Dichloroethane	U		0.0819	0.500	1	05/02/2020 21:58	WG1469806
1,1-Dichloroethene	U		0.188	0.500	1	05/02/2020 21:58	WG1469806
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/07/2020 01:50	WG1471604
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/02/2020 21:58	WG1469806
1,2-Dichloropropane	U		0.149	0.500	1	05/02/2020 21:58	WG1469806
1,1-Dichloropropene	U		0.142	0.500	1	05/02/2020 21:58	WG1469806
1,3-Dichloropropane	U		0.109	1.00	1	05/02/2020 21:58	WG1469806
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/02/2020 21:58	WG1469806
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/02/2020 21:58	WG1469806
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/02/2020 21:58	WG1469806
2,2-Dichloropropane	U		0.161	0.500	1	05/02/2020 21:58	WG1469806
Di-isopropyl ether	U		0.105	0.500	1	05/02/2020 21:58	WG1469806
Ethylbenzene	U		0.137	0.500	1	05/02/2020 21:58	WG1469806
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/02/2020 21:58	WG1469806
2-Hexanone	U		0.787	5.00	1	05/02/2020 21:58	WG1469806
n-Hexane	U		0.749	5.00	1	05/02/2020 21:58	WG1469806
Iodomethane	U	JO	0.554	5.00	1	05/02/2020 21:58	WG1469806
Isopropylbenzene	U		0.105	0.500	1	05/02/2020 21:58	WG1469806
p-Isopropyltoluene	U		0.120	0.500	1	05/02/2020 21:58	WG1469806
2-Butanone (MEK)	U		1.19	5.00	1	05/02/2020 21:58	WG1469806
Methylene Chloride	U	JO	0.430	2.50	1	05/02/2020 21:58	WG1469806
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/02/2020 21:58	WG1469806
Methyl tert-butyl ether	U		0.101	0.500	1	05/02/2020 21:58	WG1469806
Naphthalene	U		0.174	2.50	1	05/02/2020 21:58	WG1469806
n-Propylbenzene	U		0.0993	0.500	1	05/02/2020 21:58	WG1469806
Styrene	U		0.118	0.500	1	05/02/2020 21:58	WG1469806
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/02/2020 21:58	WG1469806
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/02/2020 21:58	WG1469806
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/02/2020 21:58	WG1469806
Tetrachloroethene	U		0.300	0.500	1	05/02/2020 21:58	WG1469806
Toluene	U		0.278	0.500	1	05/02/2020 21:58	WG1469806
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/02/2020 21:58	WG1469806
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/02/2020 21:58	WG1469806
1,1,1-Trichloroethane	U		0.149	0.500	1	05/02/2020 21:58	WG1469806
1,1,2-Trichloroethane	U		0.158	0.500	1	05/02/2020 21:58	WG1469806
Trichloroethene	U		0.190	0.500	1	05/02/2020 21:58	WG1469806
Trichlorofluoromethane	U		0.160	2.50	1	05/02/2020 21:58	WG1469806
1,2,3-Trichloropropane	U		0.237	2.50	1	05/02/2020 21:58	WG1469806
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/02/2020 21:58	WG1469806
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/02/2020 21:58	WG1469806
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/02/2020 21:58	WG1469806

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
Vinyl acetate	U		0.692	5.00	1	05/02/2020 21:58	WG1469806
Vinyl chloride	U		0.234	0.500	1	05/02/2020 21:58	WG1469806
Xylenes, Total	U		0.174	1.50	1	05/02/2020 21:58	WG1469806
(S) Toluene-d8	107			80.0-120		05/02/2020 21:58	WG1469806
(S) Toluene-d8	95.6			80.0-120		05/07/2020 01:50	WG1471604
(S) 4-Bromofluorobenzene	102			77.0-126		05/02/2020 21:58	WG1469806
(S) 4-Bromofluorobenzene	83.6			77.0-126		05/07/2020 01:50	WG1471604
(S) 1,2-Dichloroethane-d4	108			70.0-130		05/02/2020 21:58	WG1469806
(S) 1,2-Dichloroethane-d4	104			70.0-130		05/07/2020 01:50	WG1471604

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	363000		8450	20000	1	05/01/2020 14:14	WG1468407

Sample Narrative:

L1213148-05 WG1468407: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	23900		379	1000	1	04/29/2020 14:45	WG1468009
Nitrate	U		48.0	100	1	04/29/2020 14:45	WG1468009
Sulfate	7040		594	5000	1	04/29/2020 14:45	WG1468009

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)	5730		102	1000	1	04/30/2020 23:43	WG1468666

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	5550		48.9	100	1	05/01/2020 12:34	WG1469077
Manganese	273		1.32	5.00	1	05/01/2020 12:34	WG1469077

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	9280		2.87	6.78	10	05/01/2020 10:28	WG1469136
Ethane	U		0.296	1.29	1	04/30/2020 13:39	WG1468509
Ethene	U		0.422	1.27	1	04/30/2020 13:39	WG1468509

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		11.3	25.0	1	05/02/2020 22:17	WG1469806
Acrylonitrile	U		0.671	5.00	1	05/02/2020 22:17	WG1469806
Benzene	U		0.0941	0.500	1	05/02/2020 22:17	WG1469806
Bromobenzene	U		0.118	0.500	1	05/02/2020 22:17	WG1469806
Bromodichloromethane	U		0.136	0.500	1	05/02/2020 22:17	WG1469806
Bromochloromethane	U		0.128	0.500	1	05/02/2020 22:17	WG1469806
Bromoform	U		0.129	0.500	1	05/02/2020 22:17	WG1469806
Bromomethane	U		0.605	2.50	1	05/02/2020 22:17	WG1469806
n-Butylbenzene	U		0.157	0.500	1	05/02/2020 22:17	WG1469806
sec-Butylbenzene	U		0.125	0.500	1	05/02/2020 22:17	WG1469806
tert-Butylbenzene	U		0.127	0.500	1	05/02/2020 22:17	WG1469806
Carbon disulfide	U	<u>JO</u>	0.0962	0.500	1	05/02/2020 22:17	WG1469806
Carbon tetrachloride	U		0.128	0.500	1	05/02/2020 22:17	WG1469806
Chlorobenzene	U		0.117	0.500	1	05/02/2020 22:17	WG1469806
Chlorodibromomethane	U		0.140	0.500	1	05/02/2020 22:17	WG1469806
Chloroethane	U		0.192	2.50	1	05/02/2020 22:17	WG1469806
Chloroform	U		0.111	0.500	1	05/02/2020 22:17	WG1469806
Chloromethane	U		0.960	1.25	1	05/02/2020 22:17	WG1469806
2-Chlorotoluene	U		0.106	0.500	1	05/02/2020 22:17	WG1469806
4-Chlorotoluene	U		0.114	0.500	1	05/02/2020 22:17	WG1469806

- 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	
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/02/2020 22:17	WG1469806
1,2-Dibromoethane	U		0.126	0.500	1	05/02/2020 22:17	WG1469806
Dibromomethane	U		0.122	0.500	1	05/02/2020 22:17	WG1469806
1,2-Dichlorobenzene	U		0.107	0.500	1	05/02/2020 22:17	WG1469806
1,3-Dichlorobenzene	U		0.299	0.500	1	05/02/2020 22:17	WG1469806
1,4-Dichlorobenzene	U		0.120	0.500	1	05/02/2020 22:17	WG1469806
Dichlorodifluoromethane	U		0.374	2.50	1	05/02/2020 22:17	WG1469806
1,1-Dichloroethane	U		0.100	0.500	1	05/02/2020 22:17	WG1469806
1,2-Dichloroethane	U		0.0819	0.500	1	05/02/2020 22:17	WG1469806
1,1-Dichloroethene	U		0.188	0.500	1	05/02/2020 22:17	WG1469806
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/02/2020 22:17	WG1469806
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/02/2020 22:17	WG1469806
1,2-Dichloropropane	U		0.149	0.500	1	05/02/2020 22:17	WG1469806
1,1-Dichloropropene	U		0.142	0.500	1	05/02/2020 22:17	WG1469806
1,3-Dichloropropane	U		0.109	1.00	1	05/02/2020 22:17	WG1469806
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/02/2020 22:17	WG1469806
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/02/2020 22:17	WG1469806
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/02/2020 22:17	WG1469806
2,2-Dichloropropane	U		0.161	0.500	1	05/02/2020 22:17	WG1469806
Di-isopropyl ether	U		0.105	0.500	1	05/02/2020 22:17	WG1469806
Ethylbenzene	U		0.137	0.500	1	05/02/2020 22:17	WG1469806
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/02/2020 22:17	WG1469806
2-Hexanone	U		0.787	5.00	1	05/02/2020 22:17	WG1469806
n-Hexane	U		0.749	5.00	1	05/02/2020 22:17	WG1469806
Iodomethane	U	JO	0.554	5.00	1	05/02/2020 22:17	WG1469806
Isopropylbenzene	U		0.105	0.500	1	05/02/2020 22:17	WG1469806
p-Isopropyltoluene	U		0.120	0.500	1	05/02/2020 22:17	WG1469806
2-Butanone (MEK)	U		1.19	5.00	1	05/02/2020 22:17	WG1469806
Methylene Chloride	U	JO	0.430	2.50	1	05/02/2020 22:17	WG1469806
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/02/2020 22:17	WG1469806
Methyl tert-butyl ether	U		0.101	0.500	1	05/02/2020 22:17	WG1469806
Naphthalene	U		0.174	2.50	1	05/02/2020 22:17	WG1469806
n-Propylbenzene	U		0.0993	0.500	1	05/02/2020 22:17	WG1469806
Styrene	U		0.118	0.500	1	05/02/2020 22:17	WG1469806
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/02/2020 22:17	WG1469806
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/02/2020 22:17	WG1469806
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/02/2020 22:17	WG1469806
Tetrachloroethene	U		0.300	0.500	1	05/02/2020 22:17	WG1469806
Toluene	U		0.278	0.500	1	05/02/2020 22:17	WG1469806
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/02/2020 22:17	WG1469806
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/02/2020 22:17	WG1469806
1,1,1-Trichloroethane	U		0.149	0.500	1	05/02/2020 22:17	WG1469806
1,1,2-Trichloroethane	U		0.158	0.500	1	05/02/2020 22:17	WG1469806
Trichloroethene	U		0.190	0.500	1	05/02/2020 22:17	WG1469806
Trichlorofluoromethane	U		0.160	2.50	1	05/02/2020 22:17	WG1469806
1,2,3-Trichloropropane	U		0.237	2.50	1	05/02/2020 22:17	WG1469806
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/02/2020 22:17	WG1469806
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/02/2020 22:17	WG1469806
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/02/2020 22:17	WG1469806
Vinyl acetate	U		0.692	5.00	1	05/02/2020 22:17	WG1469806
Vinyl chloride	U		0.234	0.500	1	05/02/2020 22:17	WG1469806
Xylenes, Total	U		0.174	1.50	1	05/02/2020 22:17	WG1469806
(S) Toluene-d8	108			80.0-120		05/02/2020 22:17	WG1469806
(S) 4-Bromofluorobenzene	101			77.0-126		05/02/2020 22:17	WG1469806
(S) 1,2-Dichloroethane-d4	110			70.0-130		05/02/2020 22:17	WG1469806

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	192000		8450	20000	1	05/01/2020 14:33	WG1468407

Sample Narrative:

L1213148-06 WG1468407: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	10300		379	1000	1	04/29/2020 15:00	WG1468009
Nitrate	U		48.0	100	1	04/29/2020 15:00	WG1468009
Sulfate	75800		594	5000	1	04/29/2020 15:00	WG1468009

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)	3030	<u>B</u>	102	1000	1	05/05/2020 13:44	WG1470661

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2940		48.9	100	1	05/01/2020 12:37	WG1469077
Manganese	483		1.32	5.00	1	05/01/2020 12:37	WG1469077

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	42.7	<u>B, J</u>	31.6	100	1	05/02/2020 16:20	WG1469578
(S) a,a,a-Trifluorotoluene(FID)	97.2			78.0-120		05/02/2020 16:20	WG1469578

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	04/30/2020 13:43	WG1468509
Ethane	U		0.296	1.29	1	04/30/2020 13:43	WG1468509
Ethene	U		0.422	1.27	1	04/30/2020 13:43	WG1468509

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		11.3	25.0	1	05/02/2020 22:36	WG1469806
Acrylonitrile	U		0.671	5.00	1	05/02/2020 22:36	WG1469806
Benzene	U		0.0941	0.500	1	05/02/2020 22:36	WG1469806
Bromobenzene	U		0.118	0.500	1	05/02/2020 22:36	WG1469806
Bromodichloromethane	U		0.136	0.500	1	05/02/2020 22:36	WG1469806
Bromochloromethane	U		0.128	0.500	1	05/02/2020 22:36	WG1469806
Bromoform	U		0.129	0.500	1	05/02/2020 22:36	WG1469806
Bromomethane	U		0.605	2.50	1	05/02/2020 22:36	WG1469806
n-Butylbenzene	U		0.157	0.500	1	05/02/2020 22:36	WG1469806
sec-Butylbenzene	U		0.125	0.500	1	05/02/2020 22:36	WG1469806
tert-Butylbenzene	U		0.127	0.500	1	05/02/2020 22:36	WG1469806
Carbon disulfide	U	<u>JO</u>	0.0962	0.500	1	05/02/2020 22:36	WG1469806
Carbon tetrachloride	U		0.128	0.500	1	05/02/2020 22:36	WG1469806

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	
Chlorobenzene	U		0.117	0.500	1	05/02/2020 22:36	WG1469806
Chlorodibromomethane	U		0.140	0.500	1	05/02/2020 22:36	WG1469806
Chloroethane	U		0.192	2.50	1	05/02/2020 22:36	WG1469806
Chloroform	U		0.111	0.500	1	05/02/2020 22:36	WG1469806
Chloromethane	U		0.960	1.25	1	05/02/2020 22:36	WG1469806
2-Chlorotoluene	U		0.106	0.500	1	05/02/2020 22:36	WG1469806
4-Chlorotoluene	U		0.114	0.500	1	05/02/2020 22:36	WG1469806
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/02/2020 22:36	WG1469806
1,2-Dibromoethane	U		0.126	0.500	1	05/02/2020 22:36	WG1469806
Dibromomethane	U		0.122	0.500	1	05/02/2020 22:36	WG1469806
1,2-Dichlorobenzene	U		0.107	0.500	1	05/02/2020 22:36	WG1469806
1,3-Dichlorobenzene	U		0.299	0.500	1	05/02/2020 22:36	WG1469806
1,4-Dichlorobenzene	U		0.120	0.500	1	05/02/2020 22:36	WG1469806
Dichlorodifluoromethane	U		0.374	2.50	1	05/02/2020 22:36	WG1469806
1,1-Dichloroethane	U		0.100	0.500	1	05/02/2020 22:36	WG1469806
1,2-Dichloroethane	U		0.0819	0.500	1	05/02/2020 22:36	WG1469806
1,1-Dichloroethene	U		0.188	0.500	1	05/02/2020 22:36	WG1469806
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/02/2020 22:36	WG1469806
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/02/2020 22:36	WG1469806
1,2-Dichloropropane	U		0.149	0.500	1	05/02/2020 22:36	WG1469806
1,1-Dichloropropene	U		0.142	0.500	1	05/02/2020 22:36	WG1469806
1,3-Dichloropropane	U		0.109	1.00	1	05/02/2020 22:36	WG1469806
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/02/2020 22:36	WG1469806
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/02/2020 22:36	WG1469806
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/02/2020 22:36	WG1469806
2,2-Dichloropropane	U		0.161	0.500	1	05/02/2020 22:36	WG1469806
Di-isopropyl ether	U		0.105	0.500	1	05/02/2020 22:36	WG1469806
Ethylbenzene	U		0.137	0.500	1	05/02/2020 22:36	WG1469806
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/02/2020 22:36	WG1469806
2-Hexanone	U		0.787	5.00	1	05/02/2020 22:36	WG1469806
n-Hexane	U		0.749	5.00	1	05/02/2020 22:36	WG1469806
Iodomethane	U	JO	0.554	5.00	1	05/02/2020 22:36	WG1469806
Isopropylbenzene	U		0.105	0.500	1	05/02/2020 22:36	WG1469806
p-Isopropyltoluene	U		0.120	0.500	1	05/02/2020 22:36	WG1469806
2-Butanone (MEK)	U		1.19	5.00	1	05/02/2020 22:36	WG1469806
Methylene Chloride	U	JO	0.430	2.50	1	05/02/2020 22:36	WG1469806
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/02/2020 22:36	WG1469806
Methyl tert-butyl ether	U		0.101	0.500	1	05/02/2020 22:36	WG1469806
Naphthalene	U		0.174	2.50	1	05/02/2020 22:36	WG1469806
n-Propylbenzene	U		0.0993	0.500	1	05/02/2020 22:36	WG1469806
Styrene	U		0.118	0.500	1	05/02/2020 22:36	WG1469806
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/02/2020 22:36	WG1469806
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/02/2020 22:36	WG1469806
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/02/2020 22:36	WG1469806
Tetrachloroethene	U		0.300	0.500	1	05/02/2020 22:36	WG1469806
Toluene	U		0.278	0.500	1	05/02/2020 22:36	WG1469806
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/02/2020 22:36	WG1469806
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/02/2020 22:36	WG1469806
1,1,1-Trichloroethane	U		0.149	0.500	1	05/02/2020 22:36	WG1469806
1,1,2-Trichloroethane	U		0.158	0.500	1	05/02/2020 22:36	WG1469806
Trichloroethene	U		0.190	0.500	1	05/02/2020 22:36	WG1469806
Trichlorofluoromethane	U		0.160	2.50	1	05/02/2020 22:36	WG1469806
1,2,3-Trichloropropane	U		0.237	2.50	1	05/02/2020 22:36	WG1469806
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/02/2020 22:36	WG1469806
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/02/2020 22:36	WG1469806
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/02/2020 22:36	WG1469806

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
Vinyl acetate	U		0.692	5.00	1	05/02/2020 22:36	WG1469806
Vinyl chloride	U		0.234	0.500	1	05/02/2020 22:36	WG1469806
Xylenes, Total	U		0.174	1.50	1	05/02/2020 22:36	WG1469806
<i>(S) Toluene-d8</i>	107			80.0-120		05/02/2020 22:36	WG1469806
<i>(S) 4-Bromofluorobenzene</i>	101			77.0-126		05/02/2020 22:36	WG1469806
<i>(S) 1,2-Dichloroethane-d4</i>	109			70.0-130		05/02/2020 22:36	WG1469806

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3523948-1 05/01/20 10:50

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1213141-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1213141-03 05/01/20 12:13 • (DUP) R3523948-2 05/01/20 12:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	795000	796000	1	0.125		20

Sample Narrative:

OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

L1213148-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1213148-06 05/01/20 14:33 • (DUP) R3523948-4 05/01/20 14:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	192000	193000	1	0.421		20

Sample Narrative:

OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3523948-3 05/01/20 12:43

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	105000	105	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3523284-1 04/29/20 11:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Chloride	U		379	1000
Nitrate	U		48.0	100
Sulfate	U		594	5000

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1213148-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1213148-01 04/29/20 12:36 • (DUP) R3523284-3 04/29/20 12:50

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	26800	26800	1	0.0235		15
Nitrate	U	0.000	1	0.000		15
Sulfate	47200	47100	1	0.226		15

L1213197-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1213197-01 04/29/20 20:32 • (DUP) R3523284-6 04/29/20 20:46

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	5180	5170	1	0.269		15
Nitrate	ND	0.000	1	0.000		15
Sulfate	26300	26300	1	0.135		15

Laboratory Control Sample (LCS)

(LCS) R3523284-2 04/29/20 11:26

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Chloride	40000	39800	99.5	80.0-120	
Nitrate	8000	8200	103	80.0-120	
Sulfate	40000	39700	99.2	80.0-120	



L1213148-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1213148-02 04/29/20 13:04 • (MS) R3523284-4 04/29/20 13:19 • (MSD) R3523284-5 04/29/20 13:33

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 %
Chloride	50000	14800	65900	65900	102	102	1	80.0-120			0.0372	15
Nitrate	5000	U	5010	5000	100	100	1	80.0-120			0.174	15
Sulfate	50000	72000	120000	120000	96.7	96.3	1	80.0-120	E	E	0.148	15

L1213197-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1213197-02 04/29/20 21:00 • (MS) R3523284-7 04/29/20 21:15

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	3330	54500	102	1	80.0-120	
Nitrate	5000	ND	5090	102	1	80.0-120	
Sulfate	50000	25600	76400	101	1	80.0-120	

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



Method Blank (MB)

(MB) R3523871-1 04/30/20 12:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	193	↓	102	1000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1213141-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1213141-01 04/30/20 15:46 • (DUP) R3523871-3 04/30/20 16:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	6680	6740	1	0.850		20

L1213147-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1213147-04 04/30/20 21:27 • (DUP) R3523871-6 04/30/20 21:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	9220	9420	1	2.20		20

Laboratory Control Sample (LCS)

(LCS) R3523871-2 04/30/20 13:20

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	72100	96.1	85.0-115	

L1213147-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1213147-01 04/30/20 18:46 • (MS) R3523871-4 04/30/20 19:10 • (MSD) R3523871-5 04/30/20 19:33

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	2030	51500	51000	98.9	98.0	1	80.0-120			0.839	20

L1213148-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1213148-04 04/30/20 22:43 • (MS) R3523871-7 04/30/20 23:03 • (MSD) R3523871-8 04/30/20 23:25

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	921	48700	50700	95.5	99.6	1	80.0-120			4.13	20



Method Blank (MB)

(MB) R3525069-1 05/05/20 12:31

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	445	↓	102	1000

¹ Cp

² Tc

³ Ss

Laboratory Control Sample (LCS)

(LCS) R3525069-2 05/05/20 13:10

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC	75000	79200	106	85.0-115	

⁴ Cn

⁵ Sr

⁶ Qc

L1213609-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1213609-06 05/05/20 17:39 • (MS) R3525069-4 05/05/20 18:04 • (MSD) R3525069-5 05/05/20 18:27

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	ND	54200	53900	107	106	1	80.0-120			0.426	20

⁷ Gl

⁸ Al

L1213621-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1213621-08 05/05/20 22:13 • (MS) R3525069-7 05/05/20 22:38 • (MSD) R3525069-8 05/05/20 23:01

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	5070	58800	58400	107	107	1	80.0-120			0.683	20

⁹ Sc



Method Blank (MB)

(MB) R3523874-1 05/01/20 11:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	ug/l		ug/l	ug/l
Iron	U		48.9	100
Manganese	U		1.32	5.00

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS)

(LCS) R3523874-2 05/01/20 11:24

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron	ug/l	ug/l	%	%	
Iron	5000	5420	108	80.0-120	
Manganese	50.0	51.6	103	80.0-120	

4 Cn

5 Sr

6 Qc

L1213351-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1213351-08 05/01/20 11:27 • (MS) R3523874-4 05/01/20 11:34 • (MSD) R3523874-5 05/01/20 11:37

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Iron	5000	2220	7410	7600	104	108	1	75.0-125			2.51	20
Manganese	50.0	371	415	416	88.6	91.7	1	75.0-125			0.367	20

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3524755-2 05/02/20 09:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	53.7	↓	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	98.3			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3524755-1 05/02/20 08:51

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	4720	85.8	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			104	78.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3523568-2 04/30/20 13:04

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1213148-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1213148-04 04/30/20 13:37 • (DUP) R3523568-3 04/30/20 13:52

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

L1213161-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1213161-09 04/30/20 14:15 • (DUP) R3523568-4 04/30/20 14:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	1110	1210	1	8.62		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

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

(LCS) R3523568-1 04/30/20 12:56 • (LCSD) R3523568-5 04/30/20 14:46

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	64.9	63.6	95.7	93.8	85.0-115			2.02	20
Ethane	129	123	120	95.3	93.0	85.0-115			2.47	20
Ethene	127	119	115	93.7	90.6	85.0-115			3.42	20



Method Blank (MB)

(MB) R3523861-2 05/01/20 10:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Methane	U		0.287	0.678

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1213589-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1213589-01 05/01/20 10:22 • (DUP) R3523861-3 05/01/20 11:07

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Methane	223	228	1	2.22		20

L1213571-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1213571-04 05/01/20 11:25 • (DUP) R3523861-4 05/01/20 11:48

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Methane	47.9	47.0	1	1.90		20

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

(LCS) R3523861-1 05/01/20 10:11 • (LCSD) R3523861-5 05/01/20 11:51

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Methane	67.8	67.0	61.7	98.8	91.0	85.0-115			8.24	20



Method Blank (MB)

(MB) R3525226-2 05/02/20 19:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromochloromethane	U		0.128	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
trans-1,4-Dichloro-2-butene	U		0.467	5.00
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3525226-2 05/02/20 19:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	0.500
Hexachloro-1,3-butadiene	U		0.337	1.00
2-Hexanone	U		0.787	5.00
n-Hexane	U		0.749	5.00
Iodomethane	U		0.554	5.00
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	0.500
1,2,4-Trimethylbenzene	U		0.322	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl acetate	U		0.692	5.00
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	108			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	108			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) R3525226-1 05/02/20 19:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	25.0	33.9	136	19.0-160	
Acrylonitrile	25.0	20.3	81.2	55.0-149	
Benzene	5.00	4.28	85.6	70.0-123	
Bromobenzene	5.00	4.51	90.2	73.0-121	
Bromodichloromethane	5.00	4.91	98.2	75.0-120	
Bromochloromethane	5.00	4.73	94.6	76.0-122	
Bromoform	5.00	4.86	97.2	68.0-132	
Bromomethane	5.00	4.99	99.8	10.0-160	
n-Butylbenzene	5.00	4.81	96.2	73.0-125	
sec-Butylbenzene	5.00	4.87	97.4	75.0-125	
tert-Butylbenzene	5.00	4.79	95.8	76.0-124	
Carbon disulfide	5.00	3.41	68.2	61.0-128	
Carbon tetrachloride	5.00	4.42	88.4	68.0-126	
Chlorobenzene	5.00	4.60	92.0	80.0-121	
Chlorodibromomethane	5.00	4.70	94.0	77.0-125	
Chloroethane	5.00	5.11	102	47.0-150	
Chloroform	5.00	4.44	88.8	73.0-120	
Chloromethane	5.00	4.63	92.6	41.0-142	
2-Chlorotoluene	5.00	4.47	89.4	76.0-123	
4-Chlorotoluene	5.00	4.73	94.6	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.66	93.2	58.0-134	
1,2-Dibromoethane	5.00	5.10	102	80.0-122	
Dibromomethane	5.00	4.97	99.4	80.0-120	
1,2-Dichlorobenzene	5.00	4.67	93.4	79.0-121	
1,3-Dichlorobenzene	5.00	4.61	92.2	79.0-120	
1,4-Dichlorobenzene	5.00	4.64	92.8	79.0-120	
trans-1,4-Dichloro-2-butene	5.00	4.68	93.6	33.0-144	
Dichlorodifluoromethane	5.00	4.62	92.4	51.0-149	
1,1-Dichloroethane	5.00	4.29	85.8	70.0-126	
1,2-Dichloroethane	5.00	4.56	91.2	70.0-128	
1,1-Dichloroethene	5.00	4.10	82.0	71.0-124	
cis-1,2-Dichloroethene	5.00	4.72	94.4	73.0-120	
trans-1,2-Dichloroethene	5.00	4.38	87.6	73.0-120	
1,2-Dichloropropane	5.00	4.48	89.6	77.0-125	
1,1-Dichloropropene	5.00	4.59	91.8	74.0-126	
1,3-Dichloropropane	5.00	4.97	99.4	80.0-120	
cis-1,3-Dichloropropene	5.00	4.99	99.8	80.0-123	
trans-1,3-Dichloropropene	5.00	4.81	96.2	78.0-124	
2,2-Dichloropropane	5.00	4.88	97.6	58.0-130	
Di-isopropyl ether	5.00	4.35	87.0	58.0-138	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3525226-1 05/02/20 19:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	5.00	4.68	93.6	79.0-123	
Hexachloro-1,3-butadiene	5.00	4.31	86.2	54.0-138	
2-Hexanone	25.0	28.8	115	67.0-149	
n-Hexane	5.00	4.15	83.0	57.0-133	
Iodomethane	25.0	18.5	74.0	33.0-147	
Isopropylbenzene	5.00	4.75	95.0	76.0-127	
p-Isopropyltoluene	5.00	5.02	100	76.0-125	
2-Butanone (MEK)	25.0	33.9	136	44.0-160	
Methylene Chloride	5.00	3.96	79.2	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	25.0	100	68.0-142	
Methyl tert-butyl ether	5.00	4.43	88.6	68.0-125	
Naphthalene	5.00	4.15	83.0	54.0-135	
n-Propylbenzene	5.00	4.41	88.2	77.0-124	
Styrene	5.00	4.87	97.4	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	4.63	92.6	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	4.64	92.8	65.0-130	
Tetrachloroethene	5.00	4.74	94.8	72.0-132	
Toluene	5.00	4.30	86.0	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	4.06	81.2	69.0-132	
1,2,3-Trichlorobenzene	5.00	4.15	83.0	50.0-138	
1,2,4-Trichlorobenzene	5.00	4.13	82.6	57.0-137	
1,1,1-Trichloroethane	5.00	4.62	92.4	73.0-124	
1,1,2-Trichloroethane	5.00	4.98	99.6	80.0-120	
Trichloroethene	5.00	4.62	92.4	78.0-124	
Trichlorofluoromethane	5.00	5.10	102	59.0-147	
1,2,3-Trichloropropane	5.00	4.88	97.6	73.0-130	
1,2,3-Trimethylbenzene	5.00	4.49	89.8	77.0-120	
1,2,4-Trimethylbenzene	5.00	4.59	91.8	76.0-121	
1,3,5-Trimethylbenzene	5.00	4.52	90.4	76.0-122	
Vinyl acetate	25.0	32.1	128	11.0-160	
Vinyl chloride	5.00	4.66	93.2	67.0-131	
Xylenes, Total	15.0	13.7	91.3	79.0-123	
(S) Toluene-d8			106	80.0-120	
(S) 4-Bromofluorobenzene			105	77.0-126	
(S) 1,2-Dichloroethane-d4			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) R3525451-3 05/06/20 18:04

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.126	0.500
(S) Toluene-d8	96.8			80.0-120
(S) 4-Bromofluorobenzene	95.3			77.0-126
(S) 1,2-Dichloroethane-d4	90.6			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3525451-1 05/06/20 17:03

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	5.00	4.98	99.6	73.0-120	
(S) Toluene-d8			96.2	80.0-120	
(S) 4-Bromofluorobenzene			97.1	77.0-126	
(S) 1,2-Dichloroethane-d4			91.9	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) R3525679-3 05/07/20 15:14

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromochloromethane	U		0.128	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
trans-1,4-Dichloro-2-butene	U		0.467	5.00
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3525679-3 05/07/20 15:14

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	0.500
Hexachloro-1,3-butadiene	U		0.337	1.00
2-Hexanone	U		0.787	5.00
n-Hexane	U		0.749	5.00
Iodomethane	U		0.554	5.00
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	0.500
1,2,4-Trimethylbenzene	U		0.322	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl acetate	U		0.692	5.00
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	93.0			80.0-120
(S) 4-Bromofluorobenzene	87.5			77.0-126
(S) 1,2-Dichloroethane-d4	92.5			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) R3525679-1 05/07/20 14:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	25.0	26.5	106	19.0-160	
Acrylonitrile	25.0	26.4	106	55.0-149	
Benzene	5.00	5.02	100	70.0-123	
Bromobenzene	5.00	4.65	93.0	73.0-121	
Bromodichloromethane	5.00	4.81	96.2	75.0-120	
Bromochloromethane	5.00	5.15	103	76.0-122	
Bromoform	5.00	4.66	93.2	68.0-132	
Bromomethane	5.00	5.01	100	10.0-160	
n-Butylbenzene	5.00	5.48	110	73.0-125	
sec-Butylbenzene	5.00	5.46	109	75.0-125	
tert-Butylbenzene	5.00	5.27	105	76.0-124	
Carbon disulfide	5.00	5.51	110	61.0-128	
Carbon tetrachloride	5.00	4.89	97.8	68.0-126	
Chlorobenzene	5.00	4.96	99.2	80.0-121	
Chlorodibromomethane	5.00	4.88	97.6	77.0-125	
Chloroethane	5.00	5.31	106	47.0-150	
Chloroform	5.00	4.71	94.2	73.0-120	
Chloromethane	5.00	5.85	117	41.0-142	
2-Chlorotoluene	5.00	4.67	93.4	76.0-123	
4-Chlorotoluene	5.00	4.95	99.0	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	3.92	78.4	58.0-134	
1,2-Dibromoethane	5.00	5.15	103	80.0-122	
Dibromomethane	5.00	5.10	102	80.0-120	
1,2-Dichlorobenzene	5.00	5.01	100	79.0-121	
1,3-Dichlorobenzene	5.00	5.01	100	79.0-120	
1,4-Dichlorobenzene	5.00	4.92	98.4	79.0-120	
trans-1,4-Dichloro-2-butene	5.00	5.20	104	33.0-144	
Dichlorodifluoromethane	5.00	6.61	132	51.0-149	
1,1-Dichloroethane	5.00	5.04	101	70.0-126	
1,2-Dichloroethane	5.00	4.77	95.4	70.0-128	
1,1-Dichloroethene	5.00	5.15	103	71.0-124	
cis-1,2-Dichloroethene	5.00	4.85	97.0	73.0-120	
trans-1,2-Dichloroethene	5.00	4.98	99.6	73.0-120	
1,2-Dichloropropane	5.00	4.97	99.4	77.0-125	
1,1-Dichloropropene	5.00	5.37	107	74.0-126	
1,3-Dichloropropane	5.00	5.01	100	80.0-120	
cis-1,3-Dichloropropene	5.00	4.99	99.8	80.0-123	
trans-1,3-Dichloropropene	5.00	5.12	102	78.0-124	
2,2-Dichloropropane	5.00	5.30	106	58.0-130	
Di-isopropyl ether	5.00	5.05	101	58.0-138	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3525679-1 05/07/20 14:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	5.00	4.81	96.2	79.0-123	
Hexachloro-1,3-butadiene	5.00	4.92	98.4	54.0-138	
2-Hexanone	25.0	22.1	88.4	67.0-149	
n-Hexane	5.00	5.77	115	57.0-133	
Iodomethane	25.0	24.8	99.2	33.0-147	
Isopropylbenzene	5.00	5.13	103	76.0-127	
p-Isopropyltoluene	5.00	5.22	104	76.0-125	
2-Butanone (MEK)	25.0	23.5	94.0	44.0-160	
Methylene Chloride	5.00	5.30	106	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	24.4	97.6	68.0-142	
Methyl tert-butyl ether	5.00	4.72	94.4	68.0-125	
Naphthalene	5.00	4.05	81.0	54.0-135	
n-Propylbenzene	5.00	5.22	104	77.0-124	
Styrene	5.00	4.29	85.8	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	5.04	101	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	4.91	98.2	65.0-130	
Tetrachloroethene	5.00	5.59	112	72.0-132	
Toluene	5.00	5.13	103	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	5.42	108	69.0-132	
1,2,3-Trichlorobenzene	5.00	5.55	111	50.0-138	
1,2,4-Trichlorobenzene	5.00	5.60	112	57.0-137	
1,1,1-Trichloroethane	5.00	5.39	108	73.0-124	
1,1,2-Trichloroethane	5.00	5.19	104	80.0-120	
Trichloroethene	5.00	5.26	105	78.0-124	
Trichlorofluoromethane	5.00	5.58	112	59.0-147	
1,2,3-Trichloropropane	5.00	4.92	98.4	73.0-130	
1,2,3-Trimethylbenzene	5.00	5.11	102	77.0-120	
1,2,4-Trimethylbenzene	5.00	5.02	100	76.0-121	
1,3,5-Trimethylbenzene	5.00	5.01	100	76.0-122	
Vinyl acetate	25.0	20.8	83.2	11.0-160	
Vinyl chloride	5.00	5.71	114	67.0-131	
Xylenes, Total	15.0	15.3	102	79.0-123	
<i>(S) Toluene-d8</i>			96.6	80.0-120	
<i>(S) 4-Bromofluorobenzene</i>			92.8	77.0-126	
<i>(S) 1,2-Dichloroethane-d4</i>			91.9	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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.

- 1 Cp
- 2 Tc
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- 4 Cn
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- 9 Sc

Qualifier	Description
B	The same analyte is found in the associated blank.
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.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
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}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

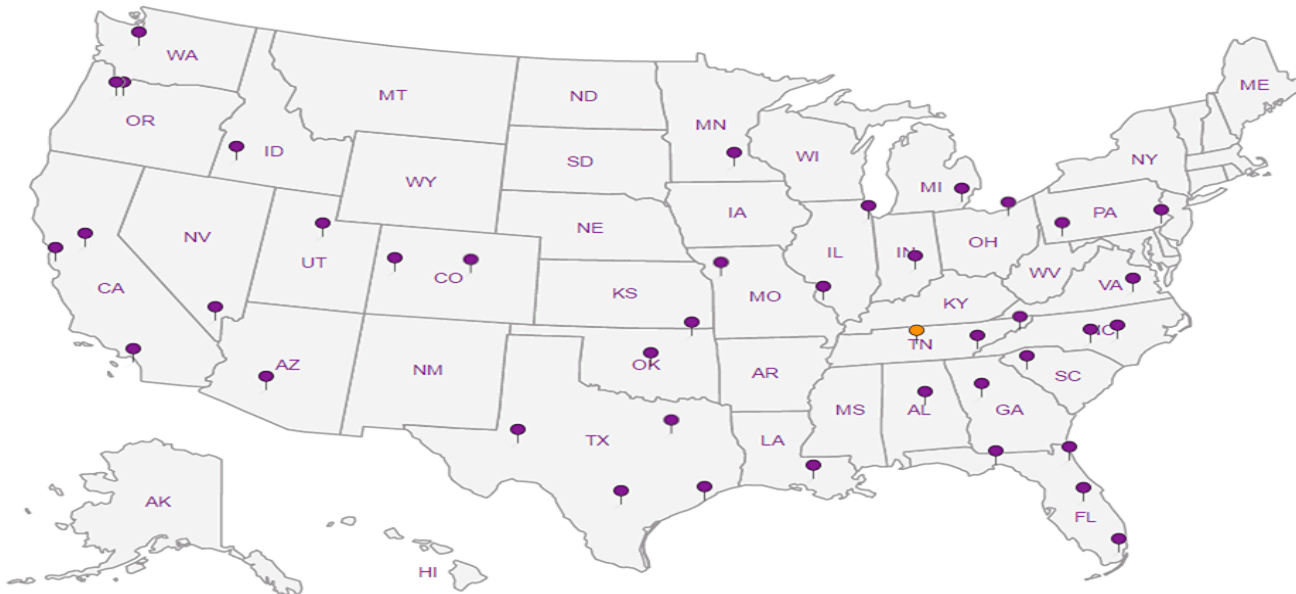
Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:

Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page of



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



SDG # L1213148
F076

Accnum: **PESENVSWA**

Template: **T165314**

Prelogin: **P767343**

PM: 110 - Brian Ford

PB:

Shipped Via:

Remarks Sample # (lab only)

Report to: **Brian O'Neal/Bill Haldeman**
Email To: **boneal@pesenv.com;bhaldeman@pesenv.com;**

Project Description: **American Linen** City/State Collected: **Seattle, WA** Please Circle: **PT MT CT ET**

Phone: **206-529-3980** Client Project # **1413.001.02.501E** Lab Project # **PESENVSWA-ALP**

Collected by (print): **Sean Kounovsky** Site/Facility ID # **American Linen** P.O. #

Collected by (signature): *[Signature]* **Rush?** (Lab MUST Be Notified)

Immediately Packed on Ice **N** **Y** X **Date Results Needed** No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
-----------	-----------	----------	-------	------	------	--------------

*NO3,S04,Cl 125mlHDPE-NoPres
Alkalinity 125mlHDPE-NoPres
EEM RSK175LL 40mlAmb-HCl
NWTPHGX 40mlAmb HCl
TOC 250mlHDPE-HCl
Total Fe Mn 6020 250mlHDPE-HNO3
VOCs LL 8260D 40mlAmb-HCl

FMW-140-042820	Grab	GW	75'	4/28/20	0840	9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-01
MW-307-042820	↓	GW	80'	↓	1035	12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-02
FMW-141-042820	↓	↓	43'	↓	1100	9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-e3
MW-305-042820	↓	↓	27.5'	↓	1255	12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-04
FMW-142-042820	↓	↓	40'	↓	1350	9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-05
MW-306-042820	↓	↓	50'	↓	1435	12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-06

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

Remarks: *Nitrate has a 48 hour holding time.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
 UPS FedEx Courier

Tracking # **1676 2749 9208**

Sample Receipt Checklist
COC Seal Present/Intact: **NE** **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: **4/28/20** Time: **1100**

Received by: (Signature)

Trip Blank Received: Yes/No **D**
HCL/MeOH
TBR

Relinquished by: (Signature)

Date: _____ Time: _____

Received by: (Signature)

Temp **3.9** °C Bottles Received: **63**
3.9-4=3.5

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: _____ Time: _____

Received for lab by: (Signature)

Date: **4/29/20** Time: **09:00** Hold:

Condition: **NCF / OK**

[Signature]

PES Environmental, Inc.- WA

Sample Delivery Group: L1213621
Samples Received: 04/30/2020
Project Number: 1413.001.02.501E
Description: American Linen

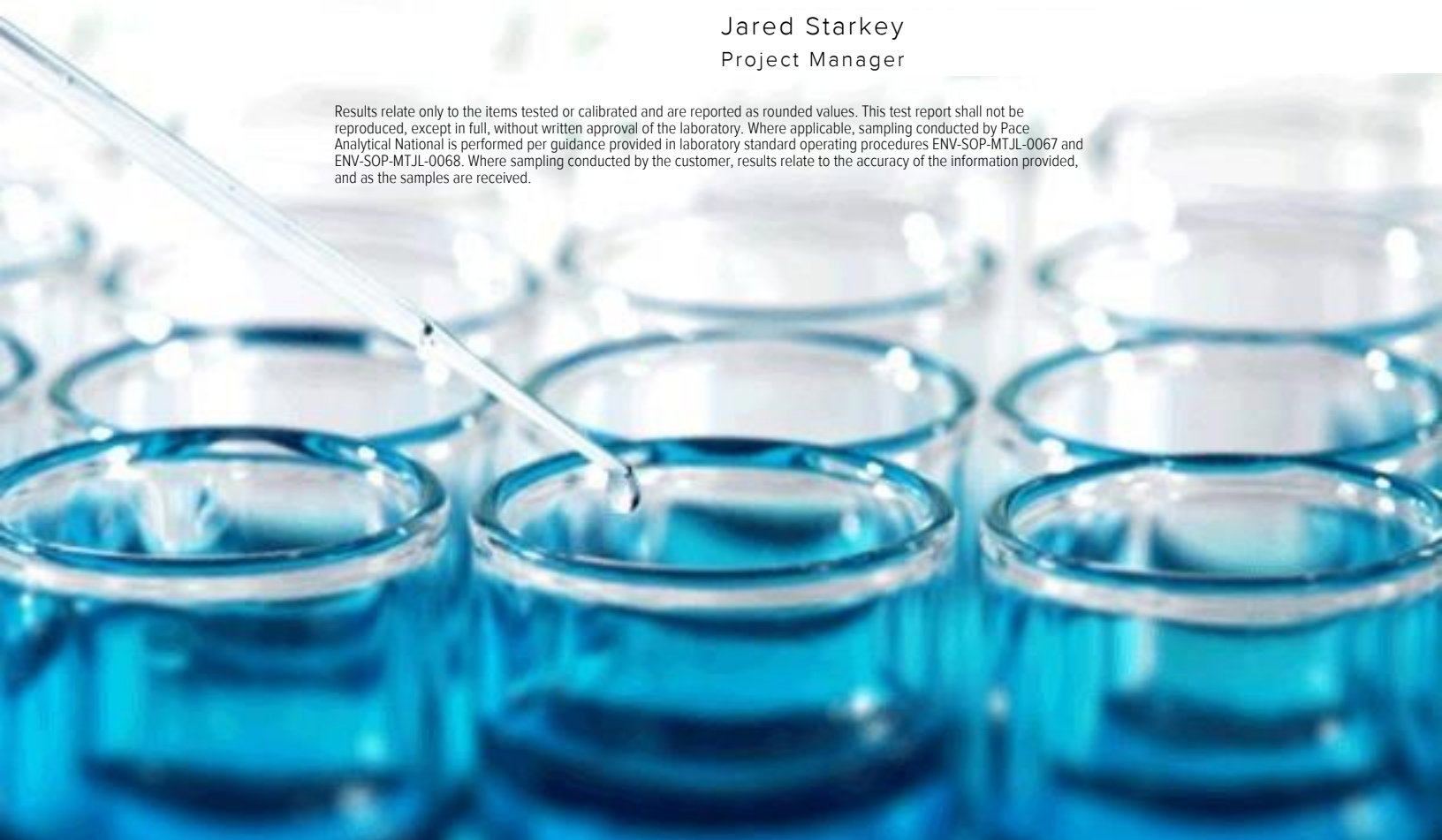
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

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.





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7 Gl
8 Al
9 Sc

SAMPLE SUMMARY



MW-929-042920 L1213621-01 GW

Collected by: Sean K
 Collected date/time: 04/29/20 08:45
 Received date/time: 04/30/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469122	1	05/05/20 07:12	05/05/20 07:12	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1468704	1	04/30/20 22:46	04/30/20 22:46	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1469258	1	05/01/20 23:24	05/01/20 23:24	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469555	1	05/05/20 22:54	05/06/20 07:53	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1470548	1	05/06/20 10:48	05/06/20 10:48	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1471907	10	05/07/20 09:36	05/07/20 09:36	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469806	1	05/02/20 22:55	05/02/20 22:55	DWR	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

MW-320-042920 L1213621-02 GW

Collected by: Sean K
 Collected date/time: 04/29/20 09:45
 Received date/time: 04/30/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469122	1	05/05/20 07:29	05/05/20 07:29	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1468704	1	04/30/20 23:04	04/30/20 23:04	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1469258	1	05/01/20 23:46	05/01/20 23:46	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469555	1	05/05/20 22:54	05/06/20 08:53	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1470548	1	05/06/20 11:06	05/06/20 11:06	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469806	1	05/02/20 23:15	05/02/20 23:15	DWR	Mt. Juliet, TN

6 Qc

7 Gl

8 Al

9 Sc

GEI-1-042920 L1213621-03 GW

Collected by: Sean K
 Collected date/time: 04/29/20 09:55
 Received date/time: 04/30/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469122	1	05/05/20 07:36	05/05/20 07:36	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1468704	1	05/01/20 00:16	05/01/20 00:16	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1469258	1	05/02/20 00:05	05/02/20 00:05	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469555	1	05/05/20 22:54	05/06/20 08:56	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1470548	1	05/06/20 11:11	05/06/20 11:11	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1471907	10	05/07/20 09:38	05/07/20 09:38	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469806	1	05/02/20 23:34	05/02/20 23:34	DWR	Mt. Juliet, TN

MW-333-042920 L1213621-04 GW

Collected by: Sean K
 Collected date/time: 04/29/20 10:00
 Received date/time: 04/30/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469123	1	05/05/20 09:59	05/05/20 09:59	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1468704	1	05/01/20 00:51	05/01/20 00:51	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1469258	1	05/02/20 00:25	05/02/20 00:25	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469555	1	05/05/20 22:54	05/06/20 08:59	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1470548	1	05/06/20 11:14	05/06/20 11:14	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1471907	10	05/07/20 09:40	05/07/20 09:40	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469806	1	05/02/20 23:53	05/02/20 23:53	DWR	Mt. Juliet, TN

MW-322-042920 L1213621-05 GW

Collected by: Sean K
 Collected date/time: 04/29/20 12:00
 Received date/time: 04/30/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469123	1	05/05/20 10:18	05/05/20 10:18	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1468704	1	05/01/20 01:09	05/01/20 01:09	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1469258	1	05/02/20 00:41	05/02/20 00:41	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469555	1	05/05/20 22:54	05/06/20 09:03	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1470548	1	05/06/20 11:16	05/06/20 11:16	DAH	Mt. Juliet, TN

SAMPLE SUMMARY

MW-322-042920 L1213621-05 GW

Collected by
Sean K Collected date/time
04/29/20 12:00 Received date/time
04/30/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469806	100	05/03/20 00:13	05/03/20 00:13	DWR	Mt. Juliet, TN

GEI-MW-1-042920 L1213621-06 GW

Collected by
Sean K Collected date/time
04/29/20 12:25 Received date/time
04/30/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469123	1	05/05/20 10:26	05/05/20 10:26	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1468704	1	05/01/20 01:27	05/01/20 01:27	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1469258	1	05/02/20 01:35	05/02/20 01:35	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469555	1	05/05/20 22:54	05/06/20 09:06	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1470548	1	05/06/20 11:19	05/06/20 11:19	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469806	1	05/03/20 00:32	05/03/20 00:32	DWR	Mt. Juliet, TN

GEI-2-042920 L1213621-07 GW

Collected by
Sean K Collected date/time
04/29/20 12:30 Received date/time
04/30/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469123	1	05/05/20 10:34	05/05/20 10:34	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1468704	1	05/01/20 01:45	05/01/20 01:45	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1469258	1	05/02/20 01:53	05/02/20 01:53	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469555	1	05/05/20 22:54	05/06/20 09:42	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1470548	1	05/06/20 11:22	05/06/20 11:22	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469806	1	05/03/20 00:51	05/03/20 00:51	DWR	Mt. Juliet, TN

FMW-131-042920 L1213621-08 GW

Collected by
Sean K Collected date/time
04/29/20 14:05 Received date/time
04/30/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469123	1	05/05/20 10:41	05/05/20 10:41	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1468704	1	05/01/20 02:21	05/01/20 02:21	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1470661	1	05/05/20 22:13	05/05/20 22:13	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469555	1	05/05/20 22:54	05/06/20 09:45	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1470548	1	05/06/20 11:25	05/06/20 11:25	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1471907	10	05/07/20 09:45	05/07/20 09:45	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469806	1	05/03/20 01:10	05/03/20 01:10	DWR	Mt. Juliet, TN

MW116-042920 L1213621-09 GW

Collected by
Sean K Collected date/time
04/29/20 14:10 Received date/time
04/30/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469123	1	05/05/20 10:48	05/05/20 10:48	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1468704	1	05/01/20 02:39	05/01/20 02:39	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1470661	1	05/05/20 23:20	05/05/20 23:20	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469555	1	05/05/20 22:54	05/06/20 09:49	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1470548	1	05/06/20 11:28	05/06/20 11:28	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469806	1	05/03/20 01:29	05/03/20 01:29	DWR	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

SAMPLE SUMMARY

MW-147-042920 L1213621-10 GW

Collected by: Sean K
 Collected date/time: 04/29/20 14:55
 Received date/time: 04/30/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469123	1	05/05/20 10:56	05/05/20 10:56	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1468704	1	05/01/20 03:33	05/01/20 03:33	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1470661	1	05/05/20 23:37	05/05/20 23:37	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469555	1	05/05/20 22:54	05/06/20 09:52	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1470018	1	05/04/20 17:04	05/04/20 17:04	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1470548	1	05/06/20 11:31	05/06/20 11:31	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469806	25	05/03/20 01:48	05/03/20 01:48	DWR	Mt. Juliet, TN

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

EQ-042920 L1213621-11 GW

Collected by: Sean K
 Collected date/time: 04/29/20 15:00
 Received date/time: 04/30/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469123	1	05/05/20 14:37	05/05/20 14:37	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1468704	1	05/01/20 03:51	05/01/20 03:51	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1470661	1	05/05/20 23:52	05/05/20 23:52	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469555	1	05/05/20 22:54	05/06/20 09:55	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1469667	1	05/03/20 00:10	05/03/20 00:10	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1470548	1	05/06/20 11:36	05/06/20 11:36	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1469806	1	05/02/20 20:41	05/02/20 20:41	DWR	Mt. Juliet, TN

TB-042920 L1213621-12 GW

Collected by: Sean K
 Collected date/time: 04/29/20 15:05
 Received date/time: 04/30/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1469667	1	05/03/20 00:32	05/03/20 00:32	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470365	1	05/04/20 23:13	05/04/20 23:13	ACG	Mt. Juliet, TN



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

Report Revision History

Level II Report - Version 1: 05/08/20 14:09



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	287000		8450	20000	1	05/05/2020 07:12	WG1469122

Sample Narrative:

L1213621-01 WG1469122: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	15800		379	1000	1	04/30/2020 22:46	WG1468704
Nitrate	181		48.0	100	1	04/30/2020 22:46	WG1468704
Sulfate	36200		594	5000	1	04/30/2020 22:46	WG1468704

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)	4970		102	1000	1	05/01/2020 23:24	WG1469258

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	6570		48.9	100	1	05/06/2020 07:53	WG1469555
Manganese	1310	<u>V</u>	1.32	5.00	1	05/06/2020 07:53	WG1469555

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	7980		2.87	6.78	10	05/07/2020 09:36	WG1471907
Ethane	U		0.296	1.29	1	05/06/2020 10:48	WG1470548
Ethene	U		0.422	1.27	1	05/06/2020 10:48	WG1470548

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		11.3	25.0	1	05/02/2020 22:55	WG1469806
Acrylonitrile	U		0.671	5.00	1	05/02/2020 22:55	WG1469806
Benzene	U		0.0941	0.500	1	05/02/2020 22:55	WG1469806
Bromobenzene	U		0.118	0.500	1	05/02/2020 22:55	WG1469806
Bromodichloromethane	U		0.136	0.500	1	05/02/2020 22:55	WG1469806
Bromochloromethane	U		0.128	0.500	1	05/02/2020 22:55	WG1469806
Bromoform	U		0.129	0.500	1	05/02/2020 22:55	WG1469806
Bromomethane	U		0.605	2.50	1	05/02/2020 22:55	WG1469806
n-Butylbenzene	U		0.157	0.500	1	05/02/2020 22:55	WG1469806
sec-Butylbenzene	U		0.125	0.500	1	05/02/2020 22:55	WG1469806
tert-Butylbenzene	U		0.127	0.500	1	05/02/2020 22:55	WG1469806
Carbon disulfide	U	<u>JO</u>	0.0962	0.500	1	05/02/2020 22:55	WG1469806
Carbon tetrachloride	U		0.128	0.500	1	05/02/2020 22:55	WG1469806
Chlorobenzene	U		0.117	0.500	1	05/02/2020 22:55	WG1469806
Chlorodibromomethane	U		0.140	0.500	1	05/02/2020 22:55	WG1469806
Chloroethane	U		0.192	2.50	1	05/02/2020 22:55	WG1469806
Chloroform	U		0.111	0.500	1	05/02/2020 22:55	WG1469806
Chloromethane	U		0.960	1.25	1	05/02/2020 22:55	WG1469806
2-Chlorotoluene	U		0.106	0.500	1	05/02/2020 22:55	WG1469806
4-Chlorotoluene	U		0.114	0.500	1	05/02/2020 22:55	WG1469806

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	
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/02/2020 22:55	WG1469806
1,2-Dibromoethane	U		0.126	0.500	1	05/02/2020 22:55	WG1469806
Dibromomethane	U		0.122	0.500	1	05/02/2020 22:55	WG1469806
1,2-Dichlorobenzene	U		0.107	0.500	1	05/02/2020 22:55	WG1469806
1,3-Dichlorobenzene	U		0.299	0.500	1	05/02/2020 22:55	WG1469806
1,4-Dichlorobenzene	U		0.120	0.500	1	05/02/2020 22:55	WG1469806
Dichlorodifluoromethane	U		0.374	2.50	1	05/02/2020 22:55	WG1469806
1,1-Dichloroethane	U		0.100	0.500	1	05/02/2020 22:55	WG1469806
1,2-Dichloroethane	U		0.0819	0.500	1	05/02/2020 22:55	WG1469806
1,1-Dichloroethene	U		0.188	0.500	1	05/02/2020 22:55	WG1469806
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/02/2020 22:55	WG1469806
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/02/2020 22:55	WG1469806
1,2-Dichloropropane	U		0.149	0.500	1	05/02/2020 22:55	WG1469806
1,1-Dichloropropene	U		0.142	0.500	1	05/02/2020 22:55	WG1469806
1,3-Dichloropropane	U		0.109	1.00	1	05/02/2020 22:55	WG1469806
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/02/2020 22:55	WG1469806
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/02/2020 22:55	WG1469806
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/02/2020 22:55	WG1469806
2,2-Dichloropropane	U		0.161	0.500	1	05/02/2020 22:55	WG1469806
Di-isopropyl ether	U		0.105	0.500	1	05/02/2020 22:55	WG1469806
Ethylbenzene	U		0.137	0.500	1	05/02/2020 22:55	WG1469806
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/02/2020 22:55	WG1469806
2-Hexanone	U		0.787	5.00	1	05/02/2020 22:55	WG1469806
n-Hexane	U		0.749	5.00	1	05/02/2020 22:55	WG1469806
Iodomethane	U	JO	0.554	5.00	1	05/02/2020 22:55	WG1469806
Isopropylbenzene	U		0.105	0.500	1	05/02/2020 22:55	WG1469806
p-Isopropyltoluene	U		0.120	0.500	1	05/02/2020 22:55	WG1469806
2-Butanone (MEK)	U		1.19	5.00	1	05/02/2020 22:55	WG1469806
Methylene Chloride	U	JO	0.430	2.50	1	05/02/2020 22:55	WG1469806
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/02/2020 22:55	WG1469806
Methyl tert-butyl ether	U		0.101	0.500	1	05/02/2020 22:55	WG1469806
Naphthalene	U		0.174	2.50	1	05/02/2020 22:55	WG1469806
n-Propylbenzene	U		0.0993	0.500	1	05/02/2020 22:55	WG1469806
Styrene	U		0.118	0.500	1	05/02/2020 22:55	WG1469806
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/02/2020 22:55	WG1469806
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/02/2020 22:55	WG1469806
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/02/2020 22:55	WG1469806
Tetrachloroethene	U		0.300	0.500	1	05/02/2020 22:55	WG1469806
Toluene	0.286	U	0.278	0.500	1	05/02/2020 22:55	WG1469806
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/02/2020 22:55	WG1469806
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/02/2020 22:55	WG1469806
1,1,1-Trichloroethane	U		0.149	0.500	1	05/02/2020 22:55	WG1469806
1,1,2-Trichloroethane	U		0.158	0.500	1	05/02/2020 22:55	WG1469806
Trichloroethene	U		0.190	0.500	1	05/02/2020 22:55	WG1469806
Trichlorofluoromethane	U		0.160	2.50	1	05/02/2020 22:55	WG1469806
1,2,3-Trichloropropane	U		0.237	2.50	1	05/02/2020 22:55	WG1469806
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/02/2020 22:55	WG1469806
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/02/2020 22:55	WG1469806
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/02/2020 22:55	WG1469806
Vinyl acetate	U		0.692	5.00	1	05/02/2020 22:55	WG1469806
Vinyl chloride	U		0.234	0.500	1	05/02/2020 22:55	WG1469806
Xylenes, Total	U		0.174	1.50	1	05/02/2020 22:55	WG1469806
(S) Toluene-d8	106			80.0-120		05/02/2020 22:55	WG1469806
(S) 4-Bromofluorobenzene	102			77.0-126		05/02/2020 22:55	WG1469806
(S) 1,2-Dichloroethane-d4	110			70.0-130		05/02/2020 22:55	WG1469806

- 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	282000		8450	20000	1	05/05/2020 07:29	WG1469122

Sample Narrative:

L1213621-02 WG1469122: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	56500		379	1000	1	04/30/2020 23:04	WG1468704
Nitrate	U		48.0	100	1	04/30/2020 23:04	WG1468704
Sulfate	67000		594	5000	1	04/30/2020 23:04	WG1468704

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)	4700		102	1000	1	05/01/2020 23:46	WG1469258

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	5330		48.9	100	1	05/06/2020 08:53	WG1469555
Manganese	3660		1.32	5.00	1	05/06/2020 08:53	WG1469555

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	158		0.287	0.678	1	05/06/2020 11:06	WG1470548
Ethane	U		0.296	1.29	1	05/06/2020 11:06	WG1470548
Ethene	U		0.422	1.27	1	05/06/2020 11:06	WG1470548

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		11.3	25.0	1	05/02/2020 23:15	WG1469806
Acrylonitrile	U		0.671	5.00	1	05/02/2020 23:15	WG1469806
Benzene	U		0.0941	0.500	1	05/02/2020 23:15	WG1469806
Bromobenzene	U		0.118	0.500	1	05/02/2020 23:15	WG1469806
Bromodichloromethane	U		0.136	0.500	1	05/02/2020 23:15	WG1469806
Bromochloromethane	U		0.128	0.500	1	05/02/2020 23:15	WG1469806
Bromoform	U		0.129	0.500	1	05/02/2020 23:15	WG1469806
Bromomethane	U		0.605	2.50	1	05/02/2020 23:15	WG1469806
n-Butylbenzene	U		0.157	0.500	1	05/02/2020 23:15	WG1469806
sec-Butylbenzene	U		0.125	0.500	1	05/02/2020 23:15	WG1469806
tert-Butylbenzene	0.865		0.127	0.500	1	05/02/2020 23:15	WG1469806
Carbon disulfide	U	<u>JO</u>	0.0962	0.500	1	05/02/2020 23:15	WG1469806
Carbon tetrachloride	U		0.128	0.500	1	05/02/2020 23:15	WG1469806
Chlorobenzene	U		0.117	0.500	1	05/02/2020 23:15	WG1469806
Chlorodibromomethane	U		0.140	0.500	1	05/02/2020 23:15	WG1469806
Chloroethane	U		0.192	2.50	1	05/02/2020 23:15	WG1469806
Chloroform	U		0.111	0.500	1	05/02/2020 23:15	WG1469806
Chloromethane	U		0.960	1.25	1	05/02/2020 23:15	WG1469806
2-Chlorotoluene	U		0.106	0.500	1	05/02/2020 23:15	WG1469806
4-Chlorotoluene	U		0.114	0.500	1	05/02/2020 23:15	WG1469806

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	
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/02/2020 23:15	WG1469806
1,2-Dibromoethane	U		0.126	0.500	1	05/02/2020 23:15	WG1469806
Dibromomethane	U		0.122	0.500	1	05/02/2020 23:15	WG1469806
1,2-Dichlorobenzene	U		0.107	0.500	1	05/02/2020 23:15	WG1469806
1,3-Dichlorobenzene	U		0.299	0.500	1	05/02/2020 23:15	WG1469806
1,4-Dichlorobenzene	U		0.120	0.500	1	05/02/2020 23:15	WG1469806
Dichlorodifluoromethane	U		0.374	2.50	1	05/02/2020 23:15	WG1469806
1,1-Dichloroethane	U		0.100	0.500	1	05/02/2020 23:15	WG1469806
1,2-Dichloroethane	U		0.0819	0.500	1	05/02/2020 23:15	WG1469806
1,1-Dichloroethene	U		0.188	0.500	1	05/02/2020 23:15	WG1469806
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/02/2020 23:15	WG1469806
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/02/2020 23:15	WG1469806
1,2-Dichloropropane	U		0.149	0.500	1	05/02/2020 23:15	WG1469806
1,1-Dichloropropene	U		0.142	0.500	1	05/02/2020 23:15	WG1469806
1,3-Dichloropropane	U		0.109	1.00	1	05/02/2020 23:15	WG1469806
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/02/2020 23:15	WG1469806
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/02/2020 23:15	WG1469806
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/02/2020 23:15	WG1469806
2,2-Dichloropropane	U		0.161	0.500	1	05/02/2020 23:15	WG1469806
Di-isopropyl ether	U		0.105	0.500	1	05/02/2020 23:15	WG1469806
Ethylbenzene	U		0.137	0.500	1	05/02/2020 23:15	WG1469806
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/02/2020 23:15	WG1469806
2-Hexanone	U		0.787	5.00	1	05/02/2020 23:15	WG1469806
n-Hexane	U		0.749	5.00	1	05/02/2020 23:15	WG1469806
Iodomethane	U	JO	0.554	5.00	1	05/02/2020 23:15	WG1469806
Isopropylbenzene	U		0.105	0.500	1	05/02/2020 23:15	WG1469806
p-Isopropyltoluene	U		0.120	0.500	1	05/02/2020 23:15	WG1469806
2-Butanone (MEK)	U		1.19	5.00	1	05/02/2020 23:15	WG1469806
Methylene Chloride	U	JO	0.430	2.50	1	05/02/2020 23:15	WG1469806
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/02/2020 23:15	WG1469806
Methyl tert-butyl ether	U		0.101	0.500	1	05/02/2020 23:15	WG1469806
Naphthalene	U		0.174	2.50	1	05/02/2020 23:15	WG1469806
n-Propylbenzene	U		0.0993	0.500	1	05/02/2020 23:15	WG1469806
Styrene	U		0.118	0.500	1	05/02/2020 23:15	WG1469806
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/02/2020 23:15	WG1469806
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/02/2020 23:15	WG1469806
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/02/2020 23:15	WG1469806
Tetrachloroethene	U		0.300	0.500	1	05/02/2020 23:15	WG1469806
Toluene	U		0.278	0.500	1	05/02/2020 23:15	WG1469806
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/02/2020 23:15	WG1469806
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/02/2020 23:15	WG1469806
1,1,1-Trichloroethane	U		0.149	0.500	1	05/02/2020 23:15	WG1469806
1,1,2-Trichloroethane	U		0.158	0.500	1	05/02/2020 23:15	WG1469806
Trichloroethene	U		0.190	0.500	1	05/02/2020 23:15	WG1469806
Trichlorofluoromethane	U		0.160	2.50	1	05/02/2020 23:15	WG1469806
1,2,3-Trichloropropane	U		0.237	2.50	1	05/02/2020 23:15	WG1469806
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/02/2020 23:15	WG1469806
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/02/2020 23:15	WG1469806
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/02/2020 23:15	WG1469806
Vinyl acetate	U		0.692	5.00	1	05/02/2020 23:15	WG1469806
Vinyl chloride	U		0.234	0.500	1	05/02/2020 23:15	WG1469806
Xylenes, Total	U		0.174	1.50	1	05/02/2020 23:15	WG1469806
(S) Toluene-d8	96.3			80.0-120		05/02/2020 23:15	WG1469806
(S) 4-Bromofluorobenzene	95.1			77.0-126		05/02/2020 23:15	WG1469806
(S) 1,2-Dichloroethane-d4	108			70.0-130		05/02/2020 23:15	WG1469806

- 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	296000		8450	20000	1	05/05/2020 07:36	WG1469122

Sample Narrative:

L1213621-03 WG1469122: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	15900		379	1000	1	05/01/2020 00:16	WG1468704
Nitrate	118		48.0	100	1	05/01/2020 00:16	WG1468704
Sulfate	36000		594	5000	1	05/01/2020 00:16	WG1468704

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)	5300		102	1000	1	05/02/2020 00:05	WG1469258

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	7960		48.9	100	1	05/06/2020 08:56	WG1469555
Manganese	1590		1.32	5.00	1	05/06/2020 08:56	WG1469555

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	9170		2.87	6.78	10	05/07/2020 09:38	WG1471907
Ethane	U		0.296	1.29	1	05/06/2020 11:11	WG1470548
Ethene	U		0.422	1.27	1	05/06/2020 11:11	WG1470548

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		11.3	25.0	1	05/02/2020 23:34	WG1469806
Acrylonitrile	U		0.671	5.00	1	05/02/2020 23:34	WG1469806
Benzene	U		0.0941	0.500	1	05/02/2020 23:34	WG1469806
Bromobenzene	U		0.118	0.500	1	05/02/2020 23:34	WG1469806
Bromodichloromethane	U		0.136	0.500	1	05/02/2020 23:34	WG1469806
Bromochloromethane	U		0.128	0.500	1	05/02/2020 23:34	WG1469806
Bromoform	U		0.129	0.500	1	05/02/2020 23:34	WG1469806
Bromomethane	U		0.605	2.50	1	05/02/2020 23:34	WG1469806
n-Butylbenzene	U		0.157	0.500	1	05/02/2020 23:34	WG1469806
sec-Butylbenzene	U		0.125	0.500	1	05/02/2020 23:34	WG1469806
tert-Butylbenzene	U		0.127	0.500	1	05/02/2020 23:34	WG1469806
Carbon disulfide	U	<u>JO</u>	0.0962	0.500	1	05/02/2020 23:34	WG1469806
Carbon tetrachloride	U		0.128	0.500	1	05/02/2020 23:34	WG1469806
Chlorobenzene	U		0.117	0.500	1	05/02/2020 23:34	WG1469806
Chlorodibromomethane	U		0.140	0.500	1	05/02/2020 23:34	WG1469806
Chloroethane	U		0.192	2.50	1	05/02/2020 23:34	WG1469806
Chloroform	U		0.111	0.500	1	05/02/2020 23:34	WG1469806
Chloromethane	U		0.960	1.25	1	05/02/2020 23:34	WG1469806
2-Chlorotoluene	U		0.106	0.500	1	05/02/2020 23:34	WG1469806
4-Chlorotoluene	U		0.114	0.500	1	05/02/2020 23:34	WG1469806

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	
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/02/2020 23:34	WG1469806
1,2-Dibromoethane	U		0.126	0.500	1	05/02/2020 23:34	WG1469806
Dibromomethane	U		0.122	0.500	1	05/02/2020 23:34	WG1469806
1,2-Dichlorobenzene	U		0.107	0.500	1	05/02/2020 23:34	WG1469806
1,3-Dichlorobenzene	U		0.299	0.500	1	05/02/2020 23:34	WG1469806
1,4-Dichlorobenzene	U		0.120	0.500	1	05/02/2020 23:34	WG1469806
Dichlorodifluoromethane	U		0.374	2.50	1	05/02/2020 23:34	WG1469806
1,1-Dichloroethane	U		0.100	0.500	1	05/02/2020 23:34	WG1469806
1,2-Dichloroethane	U		0.0819	0.500	1	05/02/2020 23:34	WG1469806
1,1-Dichloroethene	U		0.188	0.500	1	05/02/2020 23:34	WG1469806
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/02/2020 23:34	WG1469806
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/02/2020 23:34	WG1469806
1,2-Dichloropropane	U		0.149	0.500	1	05/02/2020 23:34	WG1469806
1,1-Dichloropropene	U		0.142	0.500	1	05/02/2020 23:34	WG1469806
1,3-Dichloropropane	U		0.109	1.00	1	05/02/2020 23:34	WG1469806
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/02/2020 23:34	WG1469806
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/02/2020 23:34	WG1469806
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/02/2020 23:34	WG1469806
2,2-Dichloropropane	U		0.161	0.500	1	05/02/2020 23:34	WG1469806
Di-isopropyl ether	U		0.105	0.500	1	05/02/2020 23:34	WG1469806
Ethylbenzene	U		0.137	0.500	1	05/02/2020 23:34	WG1469806
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/02/2020 23:34	WG1469806
2-Hexanone	U		0.787	5.00	1	05/02/2020 23:34	WG1469806
n-Hexane	U		0.749	5.00	1	05/02/2020 23:34	WG1469806
Iodomethane	U	JO	0.554	5.00	1	05/02/2020 23:34	WG1469806
Isopropylbenzene	U		0.105	0.500	1	05/02/2020 23:34	WG1469806
p-Isopropyltoluene	U		0.120	0.500	1	05/02/2020 23:34	WG1469806
2-Butanone (MEK)	U		1.19	5.00	1	05/02/2020 23:34	WG1469806
Methylene Chloride	U	JO	0.430	2.50	1	05/02/2020 23:34	WG1469806
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/02/2020 23:34	WG1469806
Methyl tert-butyl ether	U		0.101	0.500	1	05/02/2020 23:34	WG1469806
Naphthalene	U		0.174	2.50	1	05/02/2020 23:34	WG1469806
n-Propylbenzene	U		0.0993	0.500	1	05/02/2020 23:34	WG1469806
Styrene	U		0.118	0.500	1	05/02/2020 23:34	WG1469806
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/02/2020 23:34	WG1469806
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/02/2020 23:34	WG1469806
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/02/2020 23:34	WG1469806
Tetrachloroethene	U		0.300	0.500	1	05/02/2020 23:34	WG1469806
Toluene	U		0.278	0.500	1	05/02/2020 23:34	WG1469806
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/02/2020 23:34	WG1469806
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/02/2020 23:34	WG1469806
1,1,1-Trichloroethane	U		0.149	0.500	1	05/02/2020 23:34	WG1469806
1,1,2-Trichloroethane	U		0.158	0.500	1	05/02/2020 23:34	WG1469806
Trichloroethene	U		0.190	0.500	1	05/02/2020 23:34	WG1469806
Trichlorofluoromethane	U		0.160	2.50	1	05/02/2020 23:34	WG1469806
1,2,3-Trichloropropane	U		0.237	2.50	1	05/02/2020 23:34	WG1469806
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/02/2020 23:34	WG1469806
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/02/2020 23:34	WG1469806
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/02/2020 23:34	WG1469806
Vinyl acetate	U		0.692	5.00	1	05/02/2020 23:34	WG1469806
Vinyl chloride	U		0.234	0.500	1	05/02/2020 23:34	WG1469806
Xylenes, Total	0.254	J	0.174	1.50	1	05/02/2020 23:34	WG1469806
(S) Toluene-d8	107			80.0-120		05/02/2020 23:34	WG1469806
(S) 4-Bromofluorobenzene	103			77.0-126		05/02/2020 23:34	WG1469806
(S) 1,2-Dichloroethane-d4	111			70.0-130		05/02/2020 23:34	WG1469806

- 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	890000		8450	20000	1	05/05/2020 09:59	WG1469123

Sample Narrative:

L1213621-04 WG1469123: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	33900		379	1000	1	05/01/2020 00:51	WG1468704
Nitrate	U		48.0	100	1	05/01/2020 00:51	WG1468704
Sulfate	1370	J	594	5000	1	05/01/2020 00:51	WG1468704

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)	13500		102	1000	1	05/02/2020 00:25	WG1469258

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	26200		48.9	100	1	05/06/2020 08:59	WG1469555
Manganese	2160		1.32	5.00	1	05/06/2020 08:59	WG1469555

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	24300		2.87	6.78	10	05/07/2020 09:40	WG1471907
Ethane	U		0.296	1.29	1	05/06/2020 11:14	WG1470548
Ethene	U		0.422	1.27	1	05/06/2020 11:14	WG1470548

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		11.3	25.0	1	05/02/2020 23:53	WG1469806
Acrylonitrile	U		0.671	5.00	1	05/02/2020 23:53	WG1469806
Benzene	U		0.0941	0.500	1	05/02/2020 23:53	WG1469806
Bromobenzene	U		0.118	0.500	1	05/02/2020 23:53	WG1469806
Bromodichloromethane	U		0.136	0.500	1	05/02/2020 23:53	WG1469806
Bromochloromethane	U		0.128	0.500	1	05/02/2020 23:53	WG1469806
Bromoform	U		0.129	0.500	1	05/02/2020 23:53	WG1469806
Bromomethane	U		0.605	2.50	1	05/02/2020 23:53	WG1469806
n-Butylbenzene	U		0.157	0.500	1	05/02/2020 23:53	WG1469806
sec-Butylbenzene	U		0.125	0.500	1	05/02/2020 23:53	WG1469806
tert-Butylbenzene	U		0.127	0.500	1	05/02/2020 23:53	WG1469806
Carbon disulfide	U	JO	0.0962	0.500	1	05/02/2020 23:53	WG1469806
Carbon tetrachloride	U		0.128	0.500	1	05/02/2020 23:53	WG1469806
Chlorobenzene	U		0.117	0.500	1	05/02/2020 23:53	WG1469806
Chlorodibromomethane	U		0.140	0.500	1	05/02/2020 23:53	WG1469806
Chloroethane	U		0.192	2.50	1	05/02/2020 23:53	WG1469806
Chloroform	U		0.111	0.500	1	05/02/2020 23:53	WG1469806
Chloromethane	U		0.960	1.25	1	05/02/2020 23:53	WG1469806
2-Chlorotoluene	U		0.106	0.500	1	05/02/2020 23:53	WG1469806
4-Chlorotoluene	U		0.114	0.500	1	05/02/2020 23:53	WG1469806

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
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/02/2020 23:53	WG1469806
1,2-Dibromoethane	U		0.126	0.500	1	05/02/2020 23:53	WG1469806
Dibromomethane	U		0.122	0.500	1	05/02/2020 23:53	WG1469806
1,2-Dichlorobenzene	U		0.107	0.500	1	05/02/2020 23:53	WG1469806
1,3-Dichlorobenzene	U		0.299	0.500	1	05/02/2020 23:53	WG1469806
1,4-Dichlorobenzene	U		0.120	0.500	1	05/02/2020 23:53	WG1469806
Dichlorodifluoromethane	U		0.374	2.50	1	05/02/2020 23:53	WG1469806
1,1-Dichloroethane	U		0.100	0.500	1	05/02/2020 23:53	WG1469806
1,2-Dichloroethane	U		0.0819	0.500	1	05/02/2020 23:53	WG1469806
1,1-Dichloroethene	U		0.188	0.500	1	05/02/2020 23:53	WG1469806
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/02/2020 23:53	WG1469806
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/02/2020 23:53	WG1469806
1,2-Dichloropropane	U		0.149	0.500	1	05/02/2020 23:53	WG1469806
1,1-Dichloropropene	U		0.142	0.500	1	05/02/2020 23:53	WG1469806
1,3-Dichloropropane	U		0.109	1.00	1	05/02/2020 23:53	WG1469806
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/02/2020 23:53	WG1469806
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/02/2020 23:53	WG1469806
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/02/2020 23:53	WG1469806
2,2-Dichloropropane	U		0.161	0.500	1	05/02/2020 23:53	WG1469806
Di-isopropyl ether	0.158	U	0.105	0.500	1	05/02/2020 23:53	WG1469806
Ethylbenzene	0.189	U	0.137	0.500	1	05/02/2020 23:53	WG1469806
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/02/2020 23:53	WG1469806
2-Hexanone	U		0.787	5.00	1	05/02/2020 23:53	WG1469806
n-Hexane	U		0.749	5.00	1	05/02/2020 23:53	WG1469806
Iodomethane	U	JO	0.554	5.00	1	05/02/2020 23:53	WG1469806
Isopropylbenzene	U		0.105	0.500	1	05/02/2020 23:53	WG1469806
p-Isopropyltoluene	U		0.120	0.500	1	05/02/2020 23:53	WG1469806
2-Butanone (MEK)	U		1.19	5.00	1	05/02/2020 23:53	WG1469806
Methylene Chloride	U	JO	0.430	2.50	1	05/02/2020 23:53	WG1469806
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/02/2020 23:53	WG1469806
Methyl tert-butyl ether	U		0.101	0.500	1	05/02/2020 23:53	WG1469806
Naphthalene	U		0.174	2.50	1	05/02/2020 23:53	WG1469806
n-Propylbenzene	U		0.0993	0.500	1	05/02/2020 23:53	WG1469806
Styrene	U		0.118	0.500	1	05/02/2020 23:53	WG1469806
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/02/2020 23:53	WG1469806
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/02/2020 23:53	WG1469806
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/02/2020 23:53	WG1469806
Tetrachloroethene	U		0.300	0.500	1	05/02/2020 23:53	WG1469806
Toluene	1.08		0.278	0.500	1	05/02/2020 23:53	WG1469806
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/02/2020 23:53	WG1469806
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/02/2020 23:53	WG1469806
1,1,1-Trichloroethane	U		0.149	0.500	1	05/02/2020 23:53	WG1469806
1,1,2-Trichloroethane	U		0.158	0.500	1	05/02/2020 23:53	WG1469806
Trichloroethene	U		0.190	0.500	1	05/02/2020 23:53	WG1469806
Trichlorofluoromethane	U		0.160	2.50	1	05/02/2020 23:53	WG1469806
1,2,3-Trichloropropane	U		0.237	2.50	1	05/02/2020 23:53	WG1469806
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/02/2020 23:53	WG1469806
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/02/2020 23:53	WG1469806
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/02/2020 23:53	WG1469806
Vinyl acetate	U		0.692	5.00	1	05/02/2020 23:53	WG1469806
Vinyl chloride	U		0.234	0.500	1	05/02/2020 23:53	WG1469806
Xylenes, Total	0.854	U	0.174	1.50	1	05/02/2020 23:53	WG1469806
(S) Toluene-d8	108			80.0-120		05/02/2020 23:53	WG1469806
(S) 4-Bromofluorobenzene	105			77.0-126		05/02/2020 23:53	WG1469806
(S) 1,2-Dichloroethane-d4	111			70.0-130		05/02/2020 23:53	WG1469806

- 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	547000		8450	20000	1	05/05/2020 10:18	WG1469123

Sample Narrative:

L1213621-05 WG1469123: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	30400		379	1000	1	05/01/2020 01:09	WG1468704
Nitrate	U		48.0	100	1	05/01/2020 01:09	WG1468704
Sulfate	69900		594	5000	1	05/01/2020 01:09	WG1468704

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)	5490		102	1000	1	05/02/2020 00:41	WG1469258

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	14600		48.9	100	1	05/06/2020 09:03	WG1469555
Manganese	2320		1.32	5.00	1	05/06/2020 09:03	WG1469555

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	2360		0.287	0.678	1	05/06/2020 11:16	WG1470548
Ethane	86.6		0.296	1.29	1	05/06/2020 11:16	WG1470548
Ethene	22.2		0.422	1.27	1	05/06/2020 11:16	WG1470548

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		1130	2500	100	05/03/2020 00:13	WG1469806
Acrylonitrile	U		67.1	500	100	05/03/2020 00:13	WG1469806
Benzene	15.5	J	9.41	50.0	100	05/03/2020 00:13	WG1469806
Bromobenzene	U		11.8	50.0	100	05/03/2020 00:13	WG1469806
Bromodichloromethane	U		13.6	50.0	100	05/03/2020 00:13	WG1469806
Bromochloromethane	U		12.8	50.0	100	05/03/2020 00:13	WG1469806
Bromoform	U		12.9	50.0	100	05/03/2020 00:13	WG1469806
Bromomethane	U		60.5	250	100	05/03/2020 00:13	WG1469806
n-Butylbenzene	U		15.7	50.0	100	05/03/2020 00:13	WG1469806
sec-Butylbenzene	U		12.5	50.0	100	05/03/2020 00:13	WG1469806
tert-Butylbenzene	U		12.7	50.0	100	05/03/2020 00:13	WG1469806
Carbon disulfide	U	JO	9.62	50.0	100	05/03/2020 00:13	WG1469806
Carbon tetrachloride	U		12.8	50.0	100	05/03/2020 00:13	WG1469806
Chlorobenzene	U		11.7	50.0	100	05/03/2020 00:13	WG1469806
Chlorodibromomethane	U		14.0	50.0	100	05/03/2020 00:13	WG1469806
Chloroethane	U		19.2	250	100	05/03/2020 00:13	WG1469806
Chloroform	U		11.1	50.0	100	05/03/2020 00:13	WG1469806
Chloromethane	U		96.0	125	100	05/03/2020 00:13	WG1469806
2-Chlorotoluene	U		10.6	50.0	100	05/03/2020 00:13	WG1469806
4-Chlorotoluene	U		11.4	50.0	100	05/03/2020 00:13	WG1469806

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	
1,2-Dibromo-3-Chloropropane	U		27.6	250	100	05/03/2020 00:13	WG1469806
1,2-Dibromoethane	U		12.6	50.0	100	05/03/2020 00:13	WG1469806
Dibromomethane	U		12.2	50.0	100	05/03/2020 00:13	WG1469806
1,2-Dichlorobenzene	U		10.7	50.0	100	05/03/2020 00:13	WG1469806
1,3-Dichlorobenzene	U		29.9	50.0	100	05/03/2020 00:13	WG1469806
1,4-Dichlorobenzene	U		12.0	50.0	100	05/03/2020 00:13	WG1469806
Dichlorodifluoromethane	U		37.4	250	100	05/03/2020 00:13	WG1469806
1,1-Dichloroethane	U		10.0	50.0	100	05/03/2020 00:13	WG1469806
1,2-Dichloroethane	U		8.19	50.0	100	05/03/2020 00:13	WG1469806
1,1-Dichloroethene	U		18.8	50.0	100	05/03/2020 00:13	WG1469806
cis-1,2-Dichloroethene	1510		12.6	50.0	100	05/03/2020 00:13	WG1469806
trans-1,2-Dichloroethene	U		14.9	50.0	100	05/03/2020 00:13	WG1469806
1,2-Dichloropropane	U		14.9	50.0	100	05/03/2020 00:13	WG1469806
1,1-Dichloropropene	U		14.2	50.0	100	05/03/2020 00:13	WG1469806
1,3-Dichloropropane	U		10.9	100	100	05/03/2020 00:13	WG1469806
cis-1,3-Dichloropropene	U		11.1	50.0	100	05/03/2020 00:13	WG1469806
trans-1,3-Dichloropropene	U		11.8	50.0	100	05/03/2020 00:13	WG1469806
trans-1,4-Dichloro-2-butene	U		46.7	500	100	05/03/2020 00:13	WG1469806
2,2-Dichloropropane	U		16.1	50.0	100	05/03/2020 00:13	WG1469806
Di-isopropyl ether	U		10.5	50.0	100	05/03/2020 00:13	WG1469806
Ethylbenzene	U		13.7	50.0	100	05/03/2020 00:13	WG1469806
Hexachloro-1,3-butadiene	U		33.7	100	100	05/03/2020 00:13	WG1469806
2-Hexanone	U		78.7	500	100	05/03/2020 00:13	WG1469806
n-Hexane	U		74.9	500	100	05/03/2020 00:13	WG1469806
Iodomethane	U	JO	55.4	500	100	05/03/2020 00:13	WG1469806
Isopropylbenzene	U		10.5	50.0	100	05/03/2020 00:13	WG1469806
p-Isopropyltoluene	U		12.0	50.0	100	05/03/2020 00:13	WG1469806
2-Butanone (MEK)	U		119	500	100	05/03/2020 00:13	WG1469806
Methylene Chloride	U	JO	43.0	250	100	05/03/2020 00:13	WG1469806
4-Methyl-2-pentanone (MIBK)	U		47.8	500	100	05/03/2020 00:13	WG1469806
Methyl tert-butyl ether	U		10.1	50.0	100	05/03/2020 00:13	WG1469806
Naphthalene	U		17.4	250	100	05/03/2020 00:13	WG1469806
n-Propylbenzene	U		9.93	50.0	100	05/03/2020 00:13	WG1469806
Styrene	U		11.8	50.0	100	05/03/2020 00:13	WG1469806
1,1,1,2-Tetrachloroethane	U		14.7	50.0	100	05/03/2020 00:13	WG1469806
1,1,2,2-Tetrachloroethane	U		13.3	50.0	100	05/03/2020 00:13	WG1469806
1,1,2-Trichlorotrifluoroethane	U		18.0	50.0	100	05/03/2020 00:13	WG1469806
Tetrachloroethene	U		30.0	50.0	100	05/03/2020 00:13	WG1469806
Toluene	U		27.8	50.0	100	05/03/2020 00:13	WG1469806
1,2,3-Trichlorobenzene	U		16.4	50.0	100	05/03/2020 00:13	WG1469806
1,2,4-Trichlorobenzene	U		48.1	100	100	05/03/2020 00:13	WG1469806
1,1,1-Trichloroethane	U		14.9	50.0	100	05/03/2020 00:13	WG1469806
1,1,2-Trichloroethane	U		15.8	50.0	100	05/03/2020 00:13	WG1469806
Trichloroethene	661		19.0	50.0	100	05/03/2020 00:13	WG1469806
Trichlorofluoromethane	U		16.0	250	100	05/03/2020 00:13	WG1469806
1,2,3-Trichloropropane	U		23.7	250	100	05/03/2020 00:13	WG1469806
1,2,4-Trimethylbenzene	U		32.2	50.0	100	05/03/2020 00:13	WG1469806
1,2,3-Trimethylbenzene	U		10.4	50.0	100	05/03/2020 00:13	WG1469806
1,3,5-Trimethylbenzene	U		10.4	50.0	100	05/03/2020 00:13	WG1469806
Vinyl acetate	U		69.2	500	100	05/03/2020 00:13	WG1469806
Vinyl chloride	280		23.4	50.0	100	05/03/2020 00:13	WG1469806
Xylenes, Total	U		17.4	150	100	05/03/2020 00:13	WG1469806
(S) Toluene-d8	108			80.0-120		05/03/2020 00:13	WG1469806
(S) 4-Bromofluorobenzene	105			77.0-126		05/03/2020 00:13	WG1469806
(S) 1,2-Dichloroethane-d4	112			70.0-130		05/03/2020 00:13	WG1469806

- 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	

Sample Narrative:

L1213621-05 WG1469806: Target compounds too high to run at a lower dilution.

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	404000		8450	20000	1	05/05/2020 10:26	WG1469123

Sample Narrative:

L1213621-06 WG1469123: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	19700		379	1000	1	05/01/2020 01:27	WG1468704
Nitrate	U		48.0	100	1	05/01/2020 01:27	WG1468704
Sulfate	29800		594	5000	1	05/01/2020 01:27	WG1468704

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)	5000		102	1000	1	05/02/2020 01:35	WG1469258

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	5090		48.9	100	1	05/06/2020 09:06	WG1469555
Manganese	2750		1.32	5.00	1	05/06/2020 09:06	WG1469555

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	757		0.287	0.678	1	05/06/2020 11:19	WG1470548
Ethane	U		0.296	1.29	1	05/06/2020 11:19	WG1470548
Ethene	U		0.422	1.27	1	05/06/2020 11:19	WG1470548

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		11.3	25.0	1	05/03/2020 00:32	WG1469806
Acrylonitrile	U		0.671	5.00	1	05/03/2020 00:32	WG1469806
Benzene	U		0.0941	0.500	1	05/03/2020 00:32	WG1469806
Bromobenzene	U		0.118	0.500	1	05/03/2020 00:32	WG1469806
Bromodichloromethane	U		0.136	0.500	1	05/03/2020 00:32	WG1469806
Bromochloromethane	U		0.128	0.500	1	05/03/2020 00:32	WG1469806
Bromoform	U		0.129	0.500	1	05/03/2020 00:32	WG1469806
Bromomethane	U		0.605	2.50	1	05/03/2020 00:32	WG1469806
n-Butylbenzene	U		0.157	0.500	1	05/03/2020 00:32	WG1469806
sec-Butylbenzene	U		0.125	0.500	1	05/03/2020 00:32	WG1469806
tert-Butylbenzene	U		0.127	0.500	1	05/03/2020 00:32	WG1469806
Carbon disulfide	U	<u>JO</u>	0.0962	0.500	1	05/03/2020 00:32	WG1469806
Carbon tetrachloride	U		0.128	0.500	1	05/03/2020 00:32	WG1469806
Chlorobenzene	U		0.117	0.500	1	05/03/2020 00:32	WG1469806
Chlorodibromomethane	U		0.140	0.500	1	05/03/2020 00:32	WG1469806
Chloroethane	U		0.192	2.50	1	05/03/2020 00:32	WG1469806
Chloroform	U		0.111	0.500	1	05/03/2020 00:32	WG1469806
Chloromethane	U		0.960	1.25	1	05/03/2020 00:32	WG1469806
2-Chlorotoluene	U		0.106	0.500	1	05/03/2020 00:32	WG1469806
4-Chlorotoluene	U		0.114	0.500	1	05/03/2020 00:32	WG1469806

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	
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/03/2020 00:32	WG1469806
1,2-Dibromoethane	U		0.126	0.500	1	05/03/2020 00:32	WG1469806
Dibromomethane	U		0.122	0.500	1	05/03/2020 00:32	WG1469806
1,2-Dichlorobenzene	U		0.107	0.500	1	05/03/2020 00:32	WG1469806
1,3-Dichlorobenzene	U		0.299	0.500	1	05/03/2020 00:32	WG1469806
1,4-Dichlorobenzene	U		0.120	0.500	1	05/03/2020 00:32	WG1469806
Dichlorodifluoromethane	U		0.374	2.50	1	05/03/2020 00:32	WG1469806
1,1-Dichloroethane	U		0.100	0.500	1	05/03/2020 00:32	WG1469806
1,2-Dichloroethane	U		0.0819	0.500	1	05/03/2020 00:32	WG1469806
1,1-Dichloroethene	U		0.188	0.500	1	05/03/2020 00:32	WG1469806
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/03/2020 00:32	WG1469806
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/03/2020 00:32	WG1469806
1,2-Dichloropropane	U		0.149	0.500	1	05/03/2020 00:32	WG1469806
1,1-Dichloropropene	U		0.142	0.500	1	05/03/2020 00:32	WG1469806
1,3-Dichloropropane	U		0.109	1.00	1	05/03/2020 00:32	WG1469806
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/03/2020 00:32	WG1469806
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/03/2020 00:32	WG1469806
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/03/2020 00:32	WG1469806
2,2-Dichloropropane	U		0.161	0.500	1	05/03/2020 00:32	WG1469806
Di-isopropyl ether	U		0.105	0.500	1	05/03/2020 00:32	WG1469806
Ethylbenzene	0.161	J	0.137	0.500	1	05/03/2020 00:32	WG1469806
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/03/2020 00:32	WG1469806
2-Hexanone	U		0.787	5.00	1	05/03/2020 00:32	WG1469806
n-Hexane	U		0.749	5.00	1	05/03/2020 00:32	WG1469806
Iodomethane	U	JO	0.554	5.00	1	05/03/2020 00:32	WG1469806
Isopropylbenzene	U		0.105	0.500	1	05/03/2020 00:32	WG1469806
p-Isopropyltoluene	U		0.120	0.500	1	05/03/2020 00:32	WG1469806
2-Butanone (MEK)	U		1.19	5.00	1	05/03/2020 00:32	WG1469806
Methylene Chloride	U	JO	0.430	2.50	1	05/03/2020 00:32	WG1469806
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/03/2020 00:32	WG1469806
Methyl tert-butyl ether	U		0.101	0.500	1	05/03/2020 00:32	WG1469806
Naphthalene	U		0.174	2.50	1	05/03/2020 00:32	WG1469806
n-Propylbenzene	U		0.0993	0.500	1	05/03/2020 00:32	WG1469806
Styrene	U		0.118	0.500	1	05/03/2020 00:32	WG1469806
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/03/2020 00:32	WG1469806
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/03/2020 00:32	WG1469806
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/03/2020 00:32	WG1469806
Tetrachloroethene	U		0.300	0.500	1	05/03/2020 00:32	WG1469806
Toluene	1.06		0.278	0.500	1	05/03/2020 00:32	WG1469806
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/03/2020 00:32	WG1469806
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/03/2020 00:32	WG1469806
1,1,1-Trichloroethane	U		0.149	0.500	1	05/03/2020 00:32	WG1469806
1,1,2-Trichloroethane	U		0.158	0.500	1	05/03/2020 00:32	WG1469806
Trichloroethene	U		0.190	0.500	1	05/03/2020 00:32	WG1469806
Trichlorofluoromethane	U		0.160	2.50	1	05/03/2020 00:32	WG1469806
1,2,3-Trichloropropane	U		0.237	2.50	1	05/03/2020 00:32	WG1469806
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/03/2020 00:32	WG1469806
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/03/2020 00:32	WG1469806
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/03/2020 00:32	WG1469806
Vinyl acetate	U		0.692	5.00	1	05/03/2020 00:32	WG1469806
Vinyl chloride	U		0.234	0.500	1	05/03/2020 00:32	WG1469806
Xylenes, Total	0.938	J	0.174	1.50	1	05/03/2020 00:32	WG1469806
(S) Toluene-d8	107			80.0-120		05/03/2020 00:32	WG1469806
(S) 4-Bromofluorobenzene	101			77.0-126		05/03/2020 00:32	WG1469806
(S) 1,2-Dichloroethane-d4	111			70.0-130		05/03/2020 00:32	WG1469806

- 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	622000		8450	20000	1	05/05/2020 10:34	WG1469123

Sample Narrative:

L1213621-07 WG1469123: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	18500		379	1000	1	05/01/2020 01:45	WG1468704
Nitrate	U		48.0	100	1	05/01/2020 01:45	WG1468704
Sulfate	1880	J	594	5000	1	05/01/2020 01:45	WG1468704

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	05/02/2020 01:53	WG1469258

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	19900		48.9	100	1	05/06/2020 09:42	WG1469555
Manganese	906		1.32	5.00	1	05/06/2020 09:42	WG1469555

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	56.8		0.287	0.678	1	05/06/2020 11:22	WG1470548
Ethane	U		0.296	1.29	1	05/06/2020 11:22	WG1470548
Ethene	U		0.422	1.27	1	05/06/2020 11:22	WG1470548

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		11.3	25.0	1	05/03/2020 00:51	WG1469806
Acrylonitrile	U		0.671	5.00	1	05/03/2020 00:51	WG1469806
Benzene	2.22		0.0941	0.500	1	05/03/2020 00:51	WG1469806
Bromobenzene	U		0.118	0.500	1	05/03/2020 00:51	WG1469806
Bromodichloromethane	U		0.136	0.500	1	05/03/2020 00:51	WG1469806
Bromochloromethane	U		0.128	0.500	1	05/03/2020 00:51	WG1469806
Bromoform	U		0.129	0.500	1	05/03/2020 00:51	WG1469806
Bromomethane	U		0.605	2.50	1	05/03/2020 00:51	WG1469806
n-Butylbenzene	U		0.157	0.500	1	05/03/2020 00:51	WG1469806
sec-Butylbenzene	U		0.125	0.500	1	05/03/2020 00:51	WG1469806
tert-Butylbenzene	U		0.127	0.500	1	05/03/2020 00:51	WG1469806
Carbon disulfide	U	JO	0.0962	0.500	1	05/03/2020 00:51	WG1469806
Carbon tetrachloride	U		0.128	0.500	1	05/03/2020 00:51	WG1469806
Chlorobenzene	U		0.117	0.500	1	05/03/2020 00:51	WG1469806
Chlorodibromomethane	U		0.140	0.500	1	05/03/2020 00:51	WG1469806
Chloroethane	U		0.192	2.50	1	05/03/2020 00:51	WG1469806
Chloroform	U		0.111	0.500	1	05/03/2020 00:51	WG1469806
Chloromethane	U		0.960	1.25	1	05/03/2020 00:51	WG1469806
2-Chlorotoluene	U		0.106	0.500	1	05/03/2020 00:51	WG1469806
4-Chlorotoluene	U		0.114	0.500	1	05/03/2020 00:51	WG1469806

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	
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/03/2020 00:51	WG1469806
1,2-Dibromoethane	U		0.126	0.500	1	05/03/2020 00:51	WG1469806
Dibromomethane	U		0.122	0.500	1	05/03/2020 00:51	WG1469806
1,2-Dichlorobenzene	U		0.107	0.500	1	05/03/2020 00:51	WG1469806
1,3-Dichlorobenzene	U		0.299	0.500	1	05/03/2020 00:51	WG1469806
1,4-Dichlorobenzene	U		0.120	0.500	1	05/03/2020 00:51	WG1469806
Dichlorodifluoromethane	U		0.374	2.50	1	05/03/2020 00:51	WG1469806
1,1-Dichloroethane	U		0.100	0.500	1	05/03/2020 00:51	WG1469806
1,2-Dichloroethane	U		0.0819	0.500	1	05/03/2020 00:51	WG1469806
1,1-Dichloroethene	U		0.188	0.500	1	05/03/2020 00:51	WG1469806
cis-1,2-Dichloroethene	4.49		0.126	0.500	1	05/03/2020 00:51	WG1469806
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/03/2020 00:51	WG1469806
1,2-Dichloropropane	U		0.149	0.500	1	05/03/2020 00:51	WG1469806
1,1-Dichloropropene	U		0.142	0.500	1	05/03/2020 00:51	WG1469806
1,3-Dichloropropane	U		0.109	1.00	1	05/03/2020 00:51	WG1469806
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/03/2020 00:51	WG1469806
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/03/2020 00:51	WG1469806
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/03/2020 00:51	WG1469806
2,2-Dichloropropane	U		0.161	0.500	1	05/03/2020 00:51	WG1469806
Di-isopropyl ether	U		0.105	0.500	1	05/03/2020 00:51	WG1469806
Ethylbenzene	U		0.137	0.500	1	05/03/2020 00:51	WG1469806
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/03/2020 00:51	WG1469806
2-Hexanone	U		0.787	5.00	1	05/03/2020 00:51	WG1469806
n-Hexane	U		0.749	5.00	1	05/03/2020 00:51	WG1469806
Iodomethane	U	JO	0.554	5.00	1	05/03/2020 00:51	WG1469806
Isopropylbenzene	U		0.105	0.500	1	05/03/2020 00:51	WG1469806
p-Isopropyltoluene	U		0.120	0.500	1	05/03/2020 00:51	WG1469806
2-Butanone (MEK)	U		1.19	5.00	1	05/03/2020 00:51	WG1469806
Methylene Chloride	U	JO	0.430	2.50	1	05/03/2020 00:51	WG1469806
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/03/2020 00:51	WG1469806
Methyl tert-butyl ether	U		0.101	0.500	1	05/03/2020 00:51	WG1469806
Naphthalene	U		0.174	2.50	1	05/03/2020 00:51	WG1469806
n-Propylbenzene	U		0.0993	0.500	1	05/03/2020 00:51	WG1469806
Styrene	U		0.118	0.500	1	05/03/2020 00:51	WG1469806
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/03/2020 00:51	WG1469806
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/03/2020 00:51	WG1469806
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/03/2020 00:51	WG1469806
Tetrachloroethene	U		0.300	0.500	1	05/03/2020 00:51	WG1469806
Toluene	U		0.278	0.500	1	05/03/2020 00:51	WG1469806
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/03/2020 00:51	WG1469806
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/03/2020 00:51	WG1469806
1,1,1-Trichloroethane	U		0.149	0.500	1	05/03/2020 00:51	WG1469806
1,1,2-Trichloroethane	U		0.158	0.500	1	05/03/2020 00:51	WG1469806
Trichloroethene	U		0.190	0.500	1	05/03/2020 00:51	WG1469806
Trichlorofluoromethane	U		0.160	2.50	1	05/03/2020 00:51	WG1469806
1,2,3-Trichloropropane	U		0.237	2.50	1	05/03/2020 00:51	WG1469806
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/03/2020 00:51	WG1469806
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/03/2020 00:51	WG1469806
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/03/2020 00:51	WG1469806
Vinyl acetate	U		0.692	5.00	1	05/03/2020 00:51	WG1469806
Vinyl chloride	67.8		0.234	0.500	1	05/03/2020 00:51	WG1469806
Xylenes, Total	U		0.174	1.50	1	05/03/2020 00:51	WG1469806
(S) Toluene-d8	106			80.0-120		05/03/2020 00:51	WG1469806
(S) 4-Bromofluorobenzene	101			77.0-126		05/03/2020 00:51	WG1469806
(S) 1,2-Dichloroethane-d4	112			70.0-130		05/03/2020 00:51	WG1469806

- 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	375000		8450	20000	1	05/05/2020 10:41	WG1469123

Sample Narrative:

L1213621-08 WG1469123: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	13100		379	1000	1	05/01/2020 02:21	WG1468704
Nitrate	U		48.0	100	1	05/01/2020 02:21	WG1468704
Sulfate	U		594	5000	1	05/01/2020 02:21	WG1468704

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)	5070		102	1000	1	05/05/2020 22:13	WG1470661

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	416		48.9	100	1	05/06/2020 09:45	WG1469555
Manganese	4190		1.32	5.00	1	05/06/2020 09:45	WG1469555

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	11800		2.87	6.78	10	05/07/2020 09:45	WG1471907
Ethane	U		0.296	1.29	1	05/06/2020 11:25	WG1470548
Ethene	U		0.422	1.27	1	05/06/2020 11:25	WG1470548

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		11.3	25.0	1	05/03/2020 01:10	WG1469806
Acrylonitrile	U		0.671	5.00	1	05/03/2020 01:10	WG1469806
Benzene	U		0.0941	0.500	1	05/03/2020 01:10	WG1469806
Bromobenzene	U		0.118	0.500	1	05/03/2020 01:10	WG1469806
Bromodichloromethane	U		0.136	0.500	1	05/03/2020 01:10	WG1469806
Bromochloromethane	U		0.128	0.500	1	05/03/2020 01:10	WG1469806
Bromoform	U		0.129	0.500	1	05/03/2020 01:10	WG1469806
Bromomethane	U		0.605	2.50	1	05/03/2020 01:10	WG1469806
n-Butylbenzene	U		0.157	0.500	1	05/03/2020 01:10	WG1469806
sec-Butylbenzene	U		0.125	0.500	1	05/03/2020 01:10	WG1469806
tert-Butylbenzene	U		0.127	0.500	1	05/03/2020 01:10	WG1469806
Carbon disulfide	U	<u>JO</u>	0.0962	0.500	1	05/03/2020 01:10	WG1469806
Carbon tetrachloride	U		0.128	0.500	1	05/03/2020 01:10	WG1469806
Chlorobenzene	U		0.117	0.500	1	05/03/2020 01:10	WG1469806
Chlorodibromomethane	U		0.140	0.500	1	05/03/2020 01:10	WG1469806
Chloroethane	U		0.192	2.50	1	05/03/2020 01:10	WG1469806
Chloroform	U		0.111	0.500	1	05/03/2020 01:10	WG1469806
Chloromethane	U		0.960	1.25	1	05/03/2020 01:10	WG1469806
2-Chlorotoluene	U		0.106	0.500	1	05/03/2020 01:10	WG1469806
4-Chlorotoluene	U		0.114	0.500	1	05/03/2020 01:10	WG1469806

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
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/03/2020 01:10	WG1469806
1,2-Dibromoethane	U		0.126	0.500	1	05/03/2020 01:10	WG1469806
Dibromomethane	U		0.122	0.500	1	05/03/2020 01:10	WG1469806
1,2-Dichlorobenzene	U		0.107	0.500	1	05/03/2020 01:10	WG1469806
1,3-Dichlorobenzene	U		0.299	0.500	1	05/03/2020 01:10	WG1469806
1,4-Dichlorobenzene	U		0.120	0.500	1	05/03/2020 01:10	WG1469806
Dichlorodifluoromethane	U		0.374	2.50	1	05/03/2020 01:10	WG1469806
1,1-Dichloroethane	U		0.100	0.500	1	05/03/2020 01:10	WG1469806
1,2-Dichloroethane	U		0.0819	0.500	1	05/03/2020 01:10	WG1469806
1,1-Dichloroethene	U		0.188	0.500	1	05/03/2020 01:10	WG1469806
cis-1,2-Dichloroethene	13.9		0.126	0.500	1	05/03/2020 01:10	WG1469806
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/03/2020 01:10	WG1469806
1,2-Dichloropropane	U		0.149	0.500	1	05/03/2020 01:10	WG1469806
1,1-Dichloropropene	U		0.142	0.500	1	05/03/2020 01:10	WG1469806
1,3-Dichloropropane	U		0.109	1.00	1	05/03/2020 01:10	WG1469806
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/03/2020 01:10	WG1469806
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/03/2020 01:10	WG1469806
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/03/2020 01:10	WG1469806
2,2-Dichloropropane	U		0.161	0.500	1	05/03/2020 01:10	WG1469806
Di-isopropyl ether	U		0.105	0.500	1	05/03/2020 01:10	WG1469806
Ethylbenzene	U		0.137	0.500	1	05/03/2020 01:10	WG1469806
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/03/2020 01:10	WG1469806
2-Hexanone	U		0.787	5.00	1	05/03/2020 01:10	WG1469806
n-Hexane	U		0.749	5.00	1	05/03/2020 01:10	WG1469806
Iodomethane	U	JO	0.554	5.00	1	05/03/2020 01:10	WG1469806
Isopropylbenzene	U		0.105	0.500	1	05/03/2020 01:10	WG1469806
p-Isopropyltoluene	U		0.120	0.500	1	05/03/2020 01:10	WG1469806
2-Butanone (MEK)	U		1.19	5.00	1	05/03/2020 01:10	WG1469806
Methylene Chloride	U	JO	0.430	2.50	1	05/03/2020 01:10	WG1469806
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/03/2020 01:10	WG1469806
Methyl tert-butyl ether	U		0.101	0.500	1	05/03/2020 01:10	WG1469806
Naphthalene	U		0.174	2.50	1	05/03/2020 01:10	WG1469806
n-Propylbenzene	U		0.0993	0.500	1	05/03/2020 01:10	WG1469806
Styrene	U		0.118	0.500	1	05/03/2020 01:10	WG1469806
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/03/2020 01:10	WG1469806
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/03/2020 01:10	WG1469806
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/03/2020 01:10	WG1469806
Tetrachloroethene	U		0.300	0.500	1	05/03/2020 01:10	WG1469806
Toluene	0.954		0.278	0.500	1	05/03/2020 01:10	WG1469806
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/03/2020 01:10	WG1469806
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/03/2020 01:10	WG1469806
1,1,1-Trichloroethane	U		0.149	0.500	1	05/03/2020 01:10	WG1469806
1,1,2-Trichloroethane	U		0.158	0.500	1	05/03/2020 01:10	WG1469806
Trichloroethene	U		0.190	0.500	1	05/03/2020 01:10	WG1469806
Trichlorofluoromethane	U		0.160	2.50	1	05/03/2020 01:10	WG1469806
1,2,3-Trichloropropane	U		0.237	2.50	1	05/03/2020 01:10	WG1469806
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/03/2020 01:10	WG1469806
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/03/2020 01:10	WG1469806
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/03/2020 01:10	WG1469806
Vinyl acetate	U		0.692	5.00	1	05/03/2020 01:10	WG1469806
Vinyl chloride	0.309	IL	0.234	0.500	1	05/03/2020 01:10	WG1469806
Xylenes, Total	0.726	IL	0.174	1.50	1	05/03/2020 01:10	WG1469806
(S) Toluene-d8	107			80.0-120		05/03/2020 01:10	WG1469806
(S) 4-Bromofluorobenzene	103			77.0-126		05/03/2020 01:10	WG1469806
(S) 1,2-Dichloroethane-d4	113			70.0-130		05/03/2020 01:10	WG1469806

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	358000		8450	20000	1	05/05/2020 10:48	WG1469123

Sample Narrative:

L1213621-09 WG1469123: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	23400		379	1000	1	05/01/2020 02:39	WG1468704
Nitrate	U		48.0	100	1	05/01/2020 02:39	WG1468704
Sulfate	U		594	5000	1	05/01/2020 02:39	WG1468704

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)	6530		102	1000	1	05/05/2020 23:20	WG1470661

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	6830		48.9	100	1	05/06/2020 09:49	WG1469555
Manganese	811		1.32	5.00	1	05/06/2020 09:49	WG1469555

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	6140		0.287	0.678	1	05/06/2020 11:28	WG1470548
Ethane	U		0.296	1.29	1	05/06/2020 11:28	WG1470548
Ethene	U		0.422	1.27	1	05/06/2020 11:28	WG1470548

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		11.3	25.0	1	05/03/2020 01:29	WG1469806
Acrylonitrile	U		0.671	5.00	1	05/03/2020 01:29	WG1469806
Benzene	U		0.0941	0.500	1	05/03/2020 01:29	WG1469806
Bromobenzene	U		0.118	0.500	1	05/03/2020 01:29	WG1469806
Bromodichloromethane	U		0.136	0.500	1	05/03/2020 01:29	WG1469806
Bromochloromethane	U		0.128	0.500	1	05/03/2020 01:29	WG1469806
Bromoform	U		0.129	0.500	1	05/03/2020 01:29	WG1469806
Bromomethane	U		0.605	2.50	1	05/03/2020 01:29	WG1469806
n-Butylbenzene	U		0.157	0.500	1	05/03/2020 01:29	WG1469806
sec-Butylbenzene	U		0.125	0.500	1	05/03/2020 01:29	WG1469806
tert-Butylbenzene	U		0.127	0.500	1	05/03/2020 01:29	WG1469806
Carbon disulfide	U	<u>JO</u>	0.0962	0.500	1	05/03/2020 01:29	WG1469806
Carbon tetrachloride	U		0.128	0.500	1	05/03/2020 01:29	WG1469806
Chlorobenzene	U		0.117	0.500	1	05/03/2020 01:29	WG1469806
Chlorodibromomethane	U		0.140	0.500	1	05/03/2020 01:29	WG1469806
Chloroethane	U		0.192	2.50	1	05/03/2020 01:29	WG1469806
Chloroform	U		0.111	0.500	1	05/03/2020 01:29	WG1469806
Chloromethane	U		0.960	1.25	1	05/03/2020 01:29	WG1469806
2-Chlorotoluene	U		0.106	0.500	1	05/03/2020 01:29	WG1469806
4-Chlorotoluene	U		0.114	0.500	1	05/03/2020 01:29	WG1469806

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	
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/03/2020 01:29	WG1469806
1,2-Dibromoethane	U		0.126	0.500	1	05/03/2020 01:29	WG1469806
Dibromomethane	U		0.122	0.500	1	05/03/2020 01:29	WG1469806
1,2-Dichlorobenzene	U		0.107	0.500	1	05/03/2020 01:29	WG1469806
1,3-Dichlorobenzene	U		0.299	0.500	1	05/03/2020 01:29	WG1469806
1,4-Dichlorobenzene	U		0.120	0.500	1	05/03/2020 01:29	WG1469806
Dichlorodifluoromethane	U		0.374	2.50	1	05/03/2020 01:29	WG1469806
1,1-Dichloroethane	U		0.100	0.500	1	05/03/2020 01:29	WG1469806
1,2-Dichloroethane	U		0.0819	0.500	1	05/03/2020 01:29	WG1469806
1,1-Dichloroethene	U		0.188	0.500	1	05/03/2020 01:29	WG1469806
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/03/2020 01:29	WG1469806
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/03/2020 01:29	WG1469806
1,2-Dichloropropane	U		0.149	0.500	1	05/03/2020 01:29	WG1469806
1,1-Dichloropropene	U		0.142	0.500	1	05/03/2020 01:29	WG1469806
1,3-Dichloropropane	U		0.109	1.00	1	05/03/2020 01:29	WG1469806
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/03/2020 01:29	WG1469806
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/03/2020 01:29	WG1469806
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/03/2020 01:29	WG1469806
2,2-Dichloropropane	U		0.161	0.500	1	05/03/2020 01:29	WG1469806
Di-isopropyl ether	U		0.105	0.500	1	05/03/2020 01:29	WG1469806
Ethylbenzene	U		0.137	0.500	1	05/03/2020 01:29	WG1469806
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/03/2020 01:29	WG1469806
2-Hexanone	U		0.787	5.00	1	05/03/2020 01:29	WG1469806
n-Hexane	U		0.749	5.00	1	05/03/2020 01:29	WG1469806
Iodomethane	U	JO	0.554	5.00	1	05/03/2020 01:29	WG1469806
Isopropylbenzene	U		0.105	0.500	1	05/03/2020 01:29	WG1469806
p-Isopropyltoluene	U		0.120	0.500	1	05/03/2020 01:29	WG1469806
2-Butanone (MEK)	U		1.19	5.00	1	05/03/2020 01:29	WG1469806
Methylene Chloride	U	JO	0.430	2.50	1	05/03/2020 01:29	WG1469806
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/03/2020 01:29	WG1469806
Methyl tert-butyl ether	U		0.101	0.500	1	05/03/2020 01:29	WG1469806
Naphthalene	U		0.174	2.50	1	05/03/2020 01:29	WG1469806
n-Propylbenzene	U		0.0993	0.500	1	05/03/2020 01:29	WG1469806
Styrene	U		0.118	0.500	1	05/03/2020 01:29	WG1469806
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/03/2020 01:29	WG1469806
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/03/2020 01:29	WG1469806
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/03/2020 01:29	WG1469806
Tetrachloroethene	U		0.300	0.500	1	05/03/2020 01:29	WG1469806
Toluene	U		0.278	0.500	1	05/03/2020 01:29	WG1469806
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/03/2020 01:29	WG1469806
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/03/2020 01:29	WG1469806
1,1,1-Trichloroethane	U		0.149	0.500	1	05/03/2020 01:29	WG1469806
1,1,2-Trichloroethane	U		0.158	0.500	1	05/03/2020 01:29	WG1469806
Trichloroethene	U		0.190	0.500	1	05/03/2020 01:29	WG1469806
Trichlorofluoromethane	U		0.160	2.50	1	05/03/2020 01:29	WG1469806
1,2,3-Trichloropropane	U		0.237	2.50	1	05/03/2020 01:29	WG1469806
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/03/2020 01:29	WG1469806
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/03/2020 01:29	WG1469806
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/03/2020 01:29	WG1469806
Vinyl acetate	U		0.692	5.00	1	05/03/2020 01:29	WG1469806
Vinyl chloride	U		0.234	0.500	1	05/03/2020 01:29	WG1469806
Xylenes, Total	U		0.174	1.50	1	05/03/2020 01:29	WG1469806
(S) Toluene-d8	107			80.0-120		05/03/2020 01:29	WG1469806
(S) 4-Bromofluorobenzene	100			77.0-126		05/03/2020 01:29	WG1469806
(S) 1,2-Dichloroethane-d4	112			70.0-130		05/03/2020 01:29	WG1469806

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	370000		8450	20000	1	05/05/2020 10:56	WG1469123

Sample Narrative:

L1213621-10 WG1469123: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	33900		379	1000	1	05/01/2020 03:33	WG1468704
Nitrate	U		48.0	100	1	05/01/2020 03:33	WG1468704
Sulfate	22400		594	5000	1	05/01/2020 03:33	WG1468704

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)	3470	<u>B</u>	102	1000	1	05/05/2020 23:37	WG1470661

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	8660		48.9	100	1	05/06/2020 09:52	WG1469555
Manganese	1010		1.32	5.00	1	05/06/2020 09:52	WG1469555

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	1150		31.6	100	1	05/04/2020 17:04	WG1470018
(S) a,a,a-Trifluorotoluene(FID)	98.1			78.0-120		05/04/2020 17:04	WG1470018

Sample Narrative:

L1213621-10 WG1470018: No discernable petroleum pattern

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	3780		0.287	0.678	1	05/06/2020 11:31	WG1470548
Ethane	U		0.296	1.29	1	05/06/2020 11:31	WG1470548
Ethene	468		0.422	1.27	1	05/06/2020 11:31	WG1470548

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		282	625	25	05/03/2020 01:48	WG1469806
Acrylonitrile	U		16.8	125	25	05/03/2020 01:48	WG1469806
Benzene	U		2.35	12.5	25	05/03/2020 01:48	WG1469806
Bromobenzene	U		2.95	12.5	25	05/03/2020 01:48	WG1469806
Bromodichloromethane	U		3.40	12.5	25	05/03/2020 01:48	WG1469806
Bromochloromethane	U		3.20	12.5	25	05/03/2020 01:48	WG1469806
Bromoform	U		3.22	12.5	25	05/03/2020 01:48	WG1469806
Bromomethane	U		15.1	62.5	25	05/03/2020 01:48	WG1469806
n-Butylbenzene	U		3.93	12.5	25	05/03/2020 01:48	WG1469806
sec-Butylbenzene	U		3.13	12.5	25	05/03/2020 01:48	WG1469806

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
tert-Butylbenzene	U		3.18	12.5	25	05/03/2020 01:48	WG1469806
Carbon disulfide	U	JO	2.41	12.5	25	05/03/2020 01:48	WG1469806
Carbon tetrachloride	U		3.20	12.5	25	05/03/2020 01:48	WG1469806
Chlorobenzene	U		2.93	12.5	25	05/03/2020 01:48	WG1469806
Chlorodibromomethane	U		3.50	12.5	25	05/03/2020 01:48	WG1469806
Chloroethane	U		4.80	62.5	25	05/03/2020 01:48	WG1469806
Chloroform	U		2.78	12.5	25	05/03/2020 01:48	WG1469806
Chloromethane	U		24.0	31.3	25	05/03/2020 01:48	WG1469806
2-Chlorotoluene	U		2.65	12.5	25	05/03/2020 01:48	WG1469806
4-Chlorotoluene	U		2.85	12.5	25	05/03/2020 01:48	WG1469806
1,2-Dibromo-3-Chloropropane	U		6.90	62.5	25	05/03/2020 01:48	WG1469806
1,2-Dibromoethane	U		3.15	12.5	25	05/03/2020 01:48	WG1469806
Dibromomethane	U		3.05	12.5	25	05/03/2020 01:48	WG1469806
1,2-Dichlorobenzene	U		2.68	12.5	25	05/03/2020 01:48	WG1469806
1,3-Dichlorobenzene	U		7.48	12.5	25	05/03/2020 01:48	WG1469806
1,4-Dichlorobenzene	U		3.00	12.5	25	05/03/2020 01:48	WG1469806
Dichlorodifluoromethane	U		9.35	62.5	25	05/03/2020 01:48	WG1469806
1,1-Dichloroethane	U		2.50	12.5	25	05/03/2020 01:48	WG1469806
1,2-Dichloroethane	U		2.05	12.5	25	05/03/2020 01:48	WG1469806
1,1-Dichloroethene	U		4.70	12.5	25	05/03/2020 01:48	WG1469806
cis-1,2-Dichloroethene	2410		3.15	12.5	25	05/03/2020 01:48	WG1469806
trans-1,2-Dichloroethene	3.90	J	3.73	12.5	25	05/03/2020 01:48	WG1469806
1,2-Dichloropropane	U		3.73	12.5	25	05/03/2020 01:48	WG1469806
1,1-Dichloropropene	U		3.55	12.5	25	05/03/2020 01:48	WG1469806
1,3-Dichloropropane	U		2.73	25.0	25	05/03/2020 01:48	WG1469806
cis-1,3-Dichloropropene	U		2.78	12.5	25	05/03/2020 01:48	WG1469806
trans-1,3-Dichloropropene	U		2.95	12.5	25	05/03/2020 01:48	WG1469806
trans-1,4-Dichloro-2-butene	U		11.7	125	25	05/03/2020 01:48	WG1469806
2,2-Dichloropropane	U		4.03	12.5	25	05/03/2020 01:48	WG1469806
Di-isopropyl ether	U		2.63	12.5	25	05/03/2020 01:48	WG1469806
Ethylbenzene	U		3.43	12.5	25	05/03/2020 01:48	WG1469806
Hexachloro-1,3-butadiene	U		8.43	25.0	25	05/03/2020 01:48	WG1469806
2-Hexanone	U		19.7	125	25	05/03/2020 01:48	WG1469806
n-Hexane	U		18.7	125	25	05/03/2020 01:48	WG1469806
Iodomethane	U	JO	13.9	125	25	05/03/2020 01:48	WG1469806
Isopropylbenzene	U		2.63	12.5	25	05/03/2020 01:48	WG1469806
p-Isopropyltoluene	U		3.00	12.5	25	05/03/2020 01:48	WG1469806
2-Butanone (MEK)	U		29.8	125	25	05/03/2020 01:48	WG1469806
Methylene Chloride	U	JO	10.7	62.5	25	05/03/2020 01:48	WG1469806
4-Methyl-2-pentanone (MIBK)	U		12.0	125	25	05/03/2020 01:48	WG1469806
Methyl tert-butyl ether	U		2.53	12.5	25	05/03/2020 01:48	WG1469806
Naphthalene	U		4.35	62.5	25	05/03/2020 01:48	WG1469806
n-Propylbenzene	U		2.48	12.5	25	05/03/2020 01:48	WG1469806
Styrene	U		2.95	12.5	25	05/03/2020 01:48	WG1469806
1,1,1,2-Tetrachloroethane	U		3.68	12.5	25	05/03/2020 01:48	WG1469806
1,1,2,2-Tetrachloroethane	U		3.33	12.5	25	05/03/2020 01:48	WG1469806
1,1,2-Trichlorotrifluoroethane	U		4.50	12.5	25	05/03/2020 01:48	WG1469806
Tetrachloroethene	U		7.50	12.5	25	05/03/2020 01:48	WG1469806
Toluene	U		6.95	12.5	25	05/03/2020 01:48	WG1469806
1,2,3-Trichlorobenzene	U		4.10	12.5	25	05/03/2020 01:48	WG1469806
1,2,4-Trichlorobenzene	U		12.0	25.0	25	05/03/2020 01:48	WG1469806
1,1,1-Trichloroethane	U		3.73	12.5	25	05/03/2020 01:48	WG1469806
1,1,2-Trichloroethane	U		3.95	12.5	25	05/03/2020 01:48	WG1469806
Trichloroethene	5.10	J	4.75	12.5	25	05/03/2020 01:48	WG1469806
Trichlorofluoromethane	U		4.00	62.5	25	05/03/2020 01:48	WG1469806
1,2,3-Trichloropropane	U		5.93	62.5	25	05/03/2020 01:48	WG1469806

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
1,2,4-Trimethylbenzene	U		8.05	12.5	25	05/03/2020 01:48	WG1469806
1,2,3-Trimethylbenzene	U		2.60	12.5	25	05/03/2020 01:48	WG1469806
1,3,5-Trimethylbenzene	U		2.60	12.5	25	05/03/2020 01:48	WG1469806
Vinyl acetate	U		17.3	125	25	05/03/2020 01:48	WG1469806
Vinyl chloride	3470		5.85	12.5	25	05/03/2020 01:48	WG1469806
Xylenes, Total	U		4.35	37.5	25	05/03/2020 01:48	WG1469806
(S) Toluene-d8	107			80.0-120		05/03/2020 01:48	WG1469806
(S) 4-Bromofluorobenzene	103			77.0-126		05/03/2020 01:48	WG1469806
(S) 1,2-Dichloroethane-d4	113			70.0-130		05/03/2020 01:48	WG1469806

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	U		8450	20000	1	05/05/2020 14:37	WG1469123

Sample Narrative:

L1213621-11 WG1469123: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	U		379	1000	1	05/01/2020 03:51	WG1468704
Nitrate	U		48.0	100	1	05/01/2020 03:51	WG1468704
Sulfate	U		594	5000	1	05/01/2020 03:51	WG1468704

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)	381	<u>B</u> <u>J</u>	102	1000	1	05/05/2020 23:52	WG1470661

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	U		48.9	100	1	05/06/2020 09:55	WG1469555
Manganese	1.53	<u>J</u>	1.32	5.00	1	05/06/2020 09:55	WG1469555

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	34.2	<u>B</u> <u>J</u>	31.6	100	1	05/03/2020 00:10	WG1469667
(S) a,a,a-Trifluorotoluene(FID)	97.5			78.0-120		05/03/2020 00:10	WG1469667

Sample Narrative:

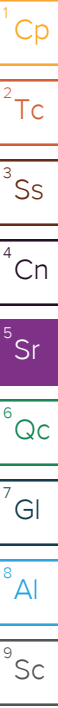
L1213621-11 WG1469667: No discernable petroleum pattern

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	05/06/2020 11:36	WG1470548
Ethane	U		0.296	1.29	1	05/06/2020 11:36	WG1470548
Ethene	U		0.422	1.27	1	05/06/2020 11:36	WG1470548

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		11.3	25.0	1	05/02/2020 20:41	WG1469806
Acrylonitrile	U		0.671	5.00	1	05/02/2020 20:41	WG1469806
Benzene	U		0.0941	0.500	1	05/02/2020 20:41	WG1469806
Bromobenzene	U		0.118	0.500	1	05/02/2020 20:41	WG1469806
Bromodichloromethane	U		0.136	0.500	1	05/02/2020 20:41	WG1469806
Bromochloromethane	U		0.128	0.500	1	05/02/2020 20:41	WG1469806
Bromoform	U		0.129	0.500	1	05/02/2020 20:41	WG1469806
Bromomethane	U		0.605	2.50	1	05/02/2020 20:41	WG1469806
n-Butylbenzene	U		0.157	0.500	1	05/02/2020 20:41	WG1469806
sec-Butylbenzene	U		0.125	0.500	1	05/02/2020 20:41	WG1469806





Collected date/time: 04/29/20 15:00

L1213621

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
tert-Butylbenzene	U		0.127	0.500	1	05/02/2020 20:41	WG1469806
Carbon disulfide	U	<u>JO</u>	0.0962	0.500	1	05/02/2020 20:41	WG1469806
Carbon tetrachloride	U		0.128	0.500	1	05/02/2020 20:41	WG1469806
Chlorobenzene	U		0.117	0.500	1	05/02/2020 20:41	WG1469806
Chlorodibromomethane	U		0.140	0.500	1	05/02/2020 20:41	WG1469806
Chloroethane	U		0.192	2.50	1	05/02/2020 20:41	WG1469806
Chloroform	U		0.111	0.500	1	05/02/2020 20:41	WG1469806
Chloromethane	U		0.960	1.25	1	05/02/2020 20:41	WG1469806
2-Chlorotoluene	U		0.106	0.500	1	05/02/2020 20:41	WG1469806
4-Chlorotoluene	U		0.114	0.500	1	05/02/2020 20:41	WG1469806
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/02/2020 20:41	WG1469806
1,2-Dibromoethane	U		0.126	0.500	1	05/02/2020 20:41	WG1469806
Dibromomethane	U		0.122	0.500	1	05/02/2020 20:41	WG1469806
1,2-Dichlorobenzene	U		0.107	0.500	1	05/02/2020 20:41	WG1469806
1,3-Dichlorobenzene	U		0.299	0.500	1	05/02/2020 20:41	WG1469806
1,4-Dichlorobenzene	U		0.120	0.500	1	05/02/2020 20:41	WG1469806
Dichlorodifluoromethane	U		0.374	2.50	1	05/02/2020 20:41	WG1469806
1,1-Dichloroethane	U		0.100	0.500	1	05/02/2020 20:41	WG1469806
1,2-Dichloroethane	U		0.0819	0.500	1	05/02/2020 20:41	WG1469806
1,1-Dichloroethene	U		0.188	0.500	1	05/02/2020 20:41	WG1469806
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/02/2020 20:41	WG1469806
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/02/2020 20:41	WG1469806
1,2-Dichloropropane	U		0.149	0.500	1	05/02/2020 20:41	WG1469806
1,1-Dichloropropene	U		0.142	0.500	1	05/02/2020 20:41	WG1469806
1,3-Dichloropropane	U		0.109	1.00	1	05/02/2020 20:41	WG1469806
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/02/2020 20:41	WG1469806
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/02/2020 20:41	WG1469806
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/02/2020 20:41	WG1469806
2,2-Dichloropropane	U		0.161	0.500	1	05/02/2020 20:41	WG1469806
Di-isopropyl ether	U		0.105	0.500	1	05/02/2020 20:41	WG1469806
Ethylbenzene	U		0.137	0.500	1	05/02/2020 20:41	WG1469806
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/02/2020 20:41	WG1469806
2-Hexanone	U		0.787	5.00	1	05/02/2020 20:41	WG1469806
n-Hexane	U		0.749	5.00	1	05/02/2020 20:41	WG1469806
Iodomethane	U	<u>JO</u>	0.554	5.00	1	05/02/2020 20:41	WG1469806
Isopropylbenzene	U		0.105	0.500	1	05/02/2020 20:41	WG1469806
p-Isopropyltoluene	U		0.120	0.500	1	05/02/2020 20:41	WG1469806
2-Butanone (MEK)	U		1.19	5.00	1	05/02/2020 20:41	WG1469806
Methylene Chloride	U	<u>JO</u>	0.430	2.50	1	05/02/2020 20:41	WG1469806
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/02/2020 20:41	WG1469806
Methyl tert-butyl ether	U		0.101	0.500	1	05/02/2020 20:41	WG1469806
Naphthalene	U		0.174	2.50	1	05/02/2020 20:41	WG1469806
n-Propylbenzene	U		0.0993	0.500	1	05/02/2020 20:41	WG1469806
Styrene	U		0.118	0.500	1	05/02/2020 20:41	WG1469806
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/02/2020 20:41	WG1469806
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/02/2020 20:41	WG1469806
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/02/2020 20:41	WG1469806
Tetrachloroethene	U		0.300	0.500	1	05/02/2020 20:41	WG1469806
Toluene	U		0.278	0.500	1	05/02/2020 20:41	WG1469806
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/02/2020 20:41	WG1469806
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/02/2020 20:41	WG1469806
1,1,1-Trichloroethane	U		0.149	0.500	1	05/02/2020 20:41	WG1469806
1,1,2-Trichloroethane	U		0.158	0.500	1	05/02/2020 20:41	WG1469806
Trichloroethene	U		0.190	0.500	1	05/02/2020 20:41	WG1469806
Trichlorofluoromethane	U		0.160	2.50	1	05/02/2020 20:41	WG1469806
1,2,3-Trichloropropane	U		0.237	2.50	1	05/02/2020 20:41	WG1469806

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/29/20 15:00

L1213621

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/02/2020 20:41	WG1469806
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/02/2020 20:41	WG1469806
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/02/2020 20:41	WG1469806
Vinyl acetate	U		0.692	5.00	1	05/02/2020 20:41	WG1469806
Vinyl chloride	U		0.234	0.500	1	05/02/2020 20:41	WG1469806
Xylenes, Total	U		0.174	1.50	1	05/02/2020 20:41	WG1469806
(S) Toluene-d8	107			80.0-120		05/02/2020 20:41	WG1469806
(S) 4-Bromofluorobenzene	107			77.0-126		05/02/2020 20:41	WG1469806
(S) 1,2-Dichloroethane-d4	114			70.0-130		05/02/2020 20:41	WG1469806

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	34.5	<u>B</u> <u>J</u>	31.6	100	1	05/03/2020 00:32	WG1469667
(S) a,a,a-Trifluorotoluene(FID)	97.3			78.0-120		05/03/2020 00:32	WG1469667

Sample Narrative:

L1213621-12 WG1469667: No discernable petroleum pattern

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		11.3	25.0	1	05/04/2020 23:13	WG1470365
Acrylonitrile	U		0.671	5.00	1	05/04/2020 23:13	WG1470365
Benzene	U		0.0941	0.500	1	05/04/2020 23:13	WG1470365
Bromobenzene	U		0.118	0.500	1	05/04/2020 23:13	WG1470365
Bromodichloromethane	U		0.136	0.500	1	05/04/2020 23:13	WG1470365
Bromochloromethane	U		0.128	0.500	1	05/04/2020 23:13	WG1470365
Bromoform	U		0.129	0.500	1	05/04/2020 23:13	WG1470365
Bromomethane	U		0.605	2.50	1	05/04/2020 23:13	WG1470365
n-Butylbenzene	U		0.157	0.500	1	05/04/2020 23:13	WG1470365
sec-Butylbenzene	U		0.125	0.500	1	05/04/2020 23:13	WG1470365
tert-Butylbenzene	U		0.127	0.500	1	05/04/2020 23:13	WG1470365
Carbon disulfide	U	<u>JO</u>	0.0962	0.500	1	05/04/2020 23:13	WG1470365
Carbon tetrachloride	U		0.128	0.500	1	05/04/2020 23:13	WG1470365
Chlorobenzene	U		0.117	0.500	1	05/04/2020 23:13	WG1470365
Chlorodibromomethane	U		0.140	0.500	1	05/04/2020 23:13	WG1470365
Chloroethane	U		0.192	2.50	1	05/04/2020 23:13	WG1470365
Chloroform	U		0.111	0.500	1	05/04/2020 23:13	WG1470365
Chloromethane	U		0.960	1.25	1	05/04/2020 23:13	WG1470365
2-Chlorotoluene	U		0.106	0.500	1	05/04/2020 23:13	WG1470365
4-Chlorotoluene	U		0.114	0.500	1	05/04/2020 23:13	WG1470365
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/04/2020 23:13	WG1470365
1,2-Dibromoethane	U		0.126	0.500	1	05/04/2020 23:13	WG1470365
Dibromomethane	U		0.122	0.500	1	05/04/2020 23:13	WG1470365
1,2-Dichlorobenzene	U		0.107	0.500	1	05/04/2020 23:13	WG1470365
1,3-Dichlorobenzene	U		0.299	0.500	1	05/04/2020 23:13	WG1470365
1,4-Dichlorobenzene	U		0.120	0.500	1	05/04/2020 23:13	WG1470365
Dichlorodifluoromethane	U		0.374	2.50	1	05/04/2020 23:13	WG1470365
1,1-Dichloroethane	U		0.100	0.500	1	05/04/2020 23:13	WG1470365
1,2-Dichloroethane	U		0.0819	0.500	1	05/04/2020 23:13	WG1470365
1,1-Dichloroethene	U	<u>JO</u>	0.188	0.500	1	05/04/2020 23:13	WG1470365
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/04/2020 23:13	WG1470365
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/04/2020 23:13	WG1470365
1,2-Dichloropropane	U		0.149	0.500	1	05/04/2020 23:13	WG1470365
1,1-Dichloropropene	U		0.142	0.500	1	05/04/2020 23:13	WG1470365
1,3-Dichloropropane	U		0.109	1.00	1	05/04/2020 23:13	WG1470365
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/04/2020 23:13	WG1470365
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/04/2020 23:13	WG1470365
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.467	5.00	1	05/04/2020 23:13	WG1470365
2,2-Dichloropropane	U		0.161	0.500	1	05/04/2020 23:13	WG1470365
Di-isopropyl ether	U		0.105	0.500	1	05/04/2020 23:13	WG1470365
Ethylbenzene	U		0.137	0.500	1	05/04/2020 23:13	WG1470365
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/04/2020 23:13	WG1470365
2-Hexanone	U		0.787	5.00	1	05/04/2020 23:13	WG1470365
n-Hexane	U		0.749	5.00	1	05/04/2020 23:13	WG1470365
Iodomethane	U		0.554	5.00	1	05/04/2020 23:13	WG1470365

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
Isopropylbenzene	U		0.105	0.500	1	05/04/2020 23:13	WG1470365
p-Isopropyltoluene	U		0.120	0.500	1	05/04/2020 23:13	WG1470365
2-Butanone (MEK)	U		1.19	5.00	1	05/04/2020 23:13	WG1470365
Methylene Chloride	U		0.430	2.50	1	05/04/2020 23:13	WG1470365
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/04/2020 23:13	WG1470365
Methyl tert-butyl ether	U		0.101	0.500	1	05/04/2020 23:13	WG1470365
Naphthalene	U	<u>JO</u>	0.174	2.50	1	05/04/2020 23:13	WG1470365
n-Propylbenzene	U		0.0993	0.500	1	05/04/2020 23:13	WG1470365
Styrene	U		0.118	0.500	1	05/04/2020 23:13	WG1470365
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/04/2020 23:13	WG1470365
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/04/2020 23:13	WG1470365
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/04/2020 23:13	WG1470365
Tetrachloroethene	U		0.300	0.500	1	05/04/2020 23:13	WG1470365
Toluene	U		0.278	0.500	1	05/04/2020 23:13	WG1470365
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	05/04/2020 23:13	WG1470365
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/04/2020 23:13	WG1470365
1,1,1-Trichloroethane	U		0.149	0.500	1	05/04/2020 23:13	WG1470365
1,1,2-Trichloroethane	U		0.158	0.500	1	05/04/2020 23:13	WG1470365
Trichloroethene	U		0.190	0.500	1	05/04/2020 23:13	WG1470365
Trichlorofluoromethane	U		0.160	2.50	1	05/04/2020 23:13	WG1470365
1,2,3-Trichloropropane	U		0.237	2.50	1	05/04/2020 23:13	WG1470365
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/04/2020 23:13	WG1470365
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/04/2020 23:13	WG1470365
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/04/2020 23:13	WG1470365
Vinyl acetate	U		0.692	5.00	1	05/04/2020 23:13	WG1470365
Vinyl chloride	U		0.234	0.500	1	05/04/2020 23:13	WG1470365
Xylenes, Total	U		0.174	1.50	1	05/04/2020 23:13	WG1470365
(S) Toluene-d8	111			80.0-120		05/04/2020 23:13	WG1470365
(S) 4-Bromofluorobenzene	92.1			77.0-126		05/04/2020 23:13	WG1470365
(S) 1,2-Dichloroethane-d4	97.2			70.0-130		05/04/2020 23:13	WG1470365

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3524686-1 05/05/20 04:37

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1213621-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1213621-03 05/05/20 07:36 • (DUP) R3524686-4 05/05/20 07:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	296000	296000	1	0.00372		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3524686-3 05/05/20 05:55

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	101000	101	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3525006-1 05/05/20 09:51

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1213621-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1213621-04 05/05/20 09:59 • (DUP) R3525006-2 05/05/20 10:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	890000	880000	1	1.11		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3525006-3 05/05/20 11:13

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	101000	101	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3523785-1 04/30/20 16:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		379	1000
Nitrate	U		48.0	100
Sulfate	U		594	5000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1213621-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1213621-02 04/30/20 23:04 • (DUP) R3523785-6 04/30/20 23:58

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	56500	56400	1	0.116		15
Nitrate	U	U	1	0.000		15
Sulfate	67000	67100	1	0.248		15

Laboratory Control Sample (LCS)

(LCS) R3523785-2 04/30/20 16:36

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40000	38500	96.4	80.0-120	
Nitrate	8000	7920	99.0	80.0-120	
Sulfate	40000	39000	97.6	80.0-120	

L1213621-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1213621-03 05/01/20 00:16 • (MS) R3523785-7 05/01/20 00:34

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Chloride	50000	15900	64300	96.8	1	80.0-120	
Nitrate	5000	118	5090	99.5	1	80.0-120	
Sulfate	50000	36000	83200	94.3	1	80.0-120	



Method Blank (MB)

(MB) R3524626-1 05/01/20 15:00

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	389	↓	102	1000

¹ Cp

² Tc

³ Ss

Laboratory Control Sample (LCS)

(LCS) R3524626-2 05/01/20 15:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC	75000	70600	94.1	85.0-115	

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3525069-1 05/05/20 12:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	445	↓	102	1000

¹ Cp

² Tc

³ Ss

Laboratory Control Sample (LCS)

(LCS) R3525069-2 05/05/20 13:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC	75000	79200	106	85.0-115	

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3525032-1 05/06/20 07:46

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	U		48.9	100
Manganese	U		1.32	5.00

Laboratory Control Sample (LCS)

(LCS) R3525032-2 05/06/20 07:50

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	5000	4970	99.4	80.0-120	
Manganese	50.0	51.1	102	80.0-120	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3524178-3 05/02/20 22:57

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	39.4	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	97.3			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3524178-1 05/02/20 21:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5380	97.8	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			104	78.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3524689-3 05/04/20 11:54

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	55.3	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	97.4			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3524689-1 05/04/20 10:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5240	95.3	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			104	78.0-120	



Method Blank (MB)

(MB) R3525178-2 05/06/20 09:53

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

L1213621-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1213621-06 05/06/20 11:19 • (DUP) R3525178-4 05/06/20 11:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	757	755	1	0.265		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) R3525178-1 05/06/20 09:49 • (LCSD) R3525178-5 05/06/20 11:44

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	60.4	63.9	89.1	94.2	85.0-115			5.63	20
Ethane	129	119	119	92.2	92.2	85.0-115			0.000	20
Ethene	127	114	114	89.8	89.8	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) R3525463-2 05/07/20 09:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Methane	U		0.287	0.678

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

(LCS) R3525463-1 05/07/20 09:22 • (LCSD) R3525463-4 05/07/20 11:00

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 %
Methane	67.8	60.5	58.9	89.2	86.9	85.0-115			2.68	20

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3525226-2 05/02/20 19:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromochloromethane	U		0.128	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
trans-1,4-Dichloro-2-butene	U		0.467	5.00
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3525226-2 05/02/20 19:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	0.500
Hexachloro-1,3-butadiene	U		0.337	1.00
2-Hexanone	U		0.787	5.00
n-Hexane	U		0.749	5.00
Iodomethane	U		0.554	5.00
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	0.500
1,2,4-Trimethylbenzene	U		0.322	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl acetate	U		0.692	5.00
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	108			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	108			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) R3525226-1 05/02/20 19:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	25.0	33.9	136	19.0-160	
Acrylonitrile	25.0	20.3	81.2	55.0-149	
Benzene	5.00	4.28	85.6	70.0-123	
Bromobenzene	5.00	4.51	90.2	73.0-121	
Bromodichloromethane	5.00	4.91	98.2	75.0-120	
Bromochloromethane	5.00	4.73	94.6	76.0-122	
Bromoform	5.00	4.86	97.2	68.0-132	
Bromomethane	5.00	4.99	99.8	10.0-160	
n-Butylbenzene	5.00	4.81	96.2	73.0-125	
sec-Butylbenzene	5.00	4.87	97.4	75.0-125	
tert-Butylbenzene	5.00	4.79	95.8	76.0-124	
Carbon disulfide	5.00	3.41	68.2	61.0-128	
Carbon tetrachloride	5.00	4.42	88.4	68.0-126	
Chlorobenzene	5.00	4.60	92.0	80.0-121	
Chlorodibromomethane	5.00	4.70	94.0	77.0-125	
Chloroethane	5.00	5.11	102	47.0-150	
Chloroform	5.00	4.44	88.8	73.0-120	
Chloromethane	5.00	4.63	92.6	41.0-142	
2-Chlorotoluene	5.00	4.47	89.4	76.0-123	
4-Chlorotoluene	5.00	4.73	94.6	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.66	93.2	58.0-134	
1,2-Dibromoethane	5.00	5.10	102	80.0-122	
Dibromomethane	5.00	4.97	99.4	80.0-120	
1,2-Dichlorobenzene	5.00	4.67	93.4	79.0-121	
1,3-Dichlorobenzene	5.00	4.61	92.2	79.0-120	
1,4-Dichlorobenzene	5.00	4.64	92.8	79.0-120	
trans-1,4-Dichloro-2-butene	5.00	4.68	93.6	33.0-144	
Dichlorodifluoromethane	5.00	4.62	92.4	51.0-149	
1,1-Dichloroethane	5.00	4.29	85.8	70.0-126	
1,2-Dichloroethane	5.00	4.56	91.2	70.0-128	
1,1-Dichloroethene	5.00	4.10	82.0	71.0-124	
cis-1,2-Dichloroethene	5.00	4.72	94.4	73.0-120	
trans-1,2-Dichloroethene	5.00	4.38	87.6	73.0-120	
1,2-Dichloropropane	5.00	4.48	89.6	77.0-125	
1,1-Dichloropropene	5.00	4.59	91.8	74.0-126	
1,3-Dichloropropane	5.00	4.97	99.4	80.0-120	
cis-1,3-Dichloropropene	5.00	4.99	99.8	80.0-123	
trans-1,3-Dichloropropene	5.00	4.81	96.2	78.0-124	
2,2-Dichloropropane	5.00	4.88	97.6	58.0-130	
Di-isopropyl ether	5.00	4.35	87.0	58.0-138	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3525226-1 05/02/20 19:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	5.00	4.68	93.6	79.0-123	
Hexachloro-1,3-butadiene	5.00	4.31	86.2	54.0-138	
2-Hexanone	25.0	28.8	115	67.0-149	
n-Hexane	5.00	4.15	83.0	57.0-133	
Iodomethane	25.0	18.5	74.0	33.0-147	
Isopropylbenzene	5.00	4.75	95.0	76.0-127	
p-Isopropyltoluene	5.00	5.02	100	76.0-125	
2-Butanone (MEK)	25.0	33.9	136	44.0-160	
Methylene Chloride	5.00	3.96	79.2	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	25.0	100	68.0-142	
Methyl tert-butyl ether	5.00	4.43	88.6	68.0-125	
Naphthalene	5.00	4.15	83.0	54.0-135	
n-Propylbenzene	5.00	4.41	88.2	77.0-124	
Styrene	5.00	4.87	97.4	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	4.63	92.6	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	4.64	92.8	65.0-130	
Tetrachloroethene	5.00	4.74	94.8	72.0-132	
Toluene	5.00	4.30	86.0	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	4.06	81.2	69.0-132	
1,2,3-Trichlorobenzene	5.00	4.15	83.0	50.0-138	
1,2,4-Trichlorobenzene	5.00	4.13	82.6	57.0-137	
1,1,1-Trichloroethane	5.00	4.62	92.4	73.0-124	
1,1,2-Trichloroethane	5.00	4.98	99.6	80.0-120	
Trichloroethene	5.00	4.62	92.4	78.0-124	
Trichlorofluoromethane	5.00	5.10	102	59.0-147	
1,2,3-Trichloropropane	5.00	4.88	97.6	73.0-130	
1,2,3-Trimethylbenzene	5.00	4.49	89.8	77.0-120	
1,2,4-Trimethylbenzene	5.00	4.59	91.8	76.0-121	
1,3,5-Trimethylbenzene	5.00	4.52	90.4	76.0-122	
Vinyl acetate	25.0	32.1	128	11.0-160	
Vinyl chloride	5.00	4.66	93.2	67.0-131	
Xylenes, Total	15.0	13.7	91.3	79.0-123	
(S) Toluene-d8			106	80.0-120	
(S) 4-Bromofluorobenzene			105	77.0-126	
(S) 1,2-Dichloroethane-d4			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) R3525642-2 05/04/20 20:34

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromochloromethane	U		0.128	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
trans-1,4-Dichloro-2-butene	U		0.467	5.00
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3525642-2 05/04/20 20:34

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	0.500
Hexachloro-1,3-butadiene	U		0.337	1.00
2-Hexanone	U		0.787	5.00
n-Hexane	U		0.749	5.00
Iodomethane	U		0.554	5.00
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	0.500
1,2,4-Trimethylbenzene	U		0.322	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl acetate	U		0.692	5.00
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	107			80.0-120
(S) 4-Bromofluorobenzene	97.4			77.0-126
(S) 1,2-Dichloroethane-d4	98.3			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) R3525642-1 05/04/20 19:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	25.0	27.7	111	19.0-160	
Acrylonitrile	25.0	24.8	99.2	55.0-149	
Benzene	5.00	4.70	94.0	70.0-123	
Bromobenzene	5.00	4.83	96.6	73.0-121	
Bromodichloromethane	5.00	4.66	93.2	75.0-120	
Bromochloromethane	5.00	5.35	107	76.0-122	
Bromoform	5.00	4.97	99.4	68.0-132	
Bromomethane	5.00	5.25	105	10.0-160	
n-Butylbenzene	5.00	4.98	99.6	73.0-125	
sec-Butylbenzene	5.00	4.56	91.2	75.0-125	
tert-Butylbenzene	5.00	4.59	91.8	76.0-124	
Carbon disulfide	5.00	3.37	67.4	61.0-128	
Carbon tetrachloride	5.00	4.59	91.8	68.0-126	
Chlorobenzene	5.00	4.99	99.8	80.0-121	
Chlorodibromomethane	5.00	5.02	100	77.0-125	
Chloroethane	5.00	5.70	114	47.0-150	
Chloroform	5.00	4.73	94.6	73.0-120	
Chloromethane	5.00	5.45	109	41.0-142	
2-Chlorotoluene	5.00	5.14	103	76.0-123	
4-Chlorotoluene	5.00	4.86	97.2	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	5.18	104	58.0-134	
1,2-Dibromoethane	5.00	4.77	95.4	80.0-122	
Dibromomethane	5.00	4.91	98.2	80.0-120	
1,2-Dichlorobenzene	5.00	4.87	97.4	79.0-121	
1,3-Dichlorobenzene	5.00	5.22	104	79.0-120	
1,4-Dichlorobenzene	5.00	5.13	103	79.0-120	
trans-1,4-Dichloro-2-butene	5.00	3.96	79.2	33.0-144	
Dichlorodifluoromethane	5.00	5.83	117	51.0-149	
1,1-Dichloroethane	5.00	4.54	90.8	70.0-126	
1,2-Dichloroethane	5.00	4.91	98.2	70.0-128	
1,1-Dichloroethene	5.00	3.93	78.6	71.0-124	
cis-1,2-Dichloroethene	5.00	5.03	101	73.0-120	
trans-1,2-Dichloroethene	5.00	4.36	87.2	73.0-120	
1,2-Dichloropropane	5.00	4.40	88.0	77.0-125	
1,1-Dichloropropene	5.00	4.71	94.2	74.0-126	
1,3-Dichloropropane	5.00	4.46	89.2	80.0-120	
cis-1,3-Dichloropropene	5.00	4.15	83.0	80.0-123	
trans-1,3-Dichloropropene	5.00	4.66	93.2	78.0-124	
2,2-Dichloropropane	5.00	5.11	102	58.0-130	
Di-isopropyl ether	5.00	5.04	101	58.0-138	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3525642-1 05/04/20 19:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	5.00	5.04	101	79.0-123	
Hexachloro-1,3-butadiene	5.00	4.97	99.4	54.0-138	
2-Hexanone	25.0	21.1	84.4	67.0-149	
n-Hexane	5.00	4.48	89.6	57.0-133	
Iodomethane	25.0	21.5	86.0	33.0-147	
Isopropylbenzene	5.00	4.84	96.8	76.0-127	
p-Isopropyltoluene	5.00	4.75	95.0	76.0-125	
2-Butanone (MEK)	25.0	20.2	80.8	44.0-160	
Methylene Chloride	5.00	5.10	102	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	24.0	96.0	68.0-142	
Methyl tert-butyl ether	5.00	4.96	99.2	68.0-125	
Naphthalene	5.00	4.48	89.6	54.0-135	
n-Propylbenzene	5.00	5.13	103	77.0-124	
Styrene	5.00	4.73	94.6	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	5.00	100	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	5.09	102	65.0-130	
Tetrachloroethene	5.00	5.11	102	72.0-132	
Toluene	5.00	4.51	90.2	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	4.09	81.8	69.0-132	
1,2,3-Trichlorobenzene	5.00	4.66	93.2	50.0-138	
1,2,4-Trichlorobenzene	5.00	5.22	104	57.0-137	
1,1,1-Trichloroethane	5.00	4.81	96.2	73.0-124	
1,1,2-Trichloroethane	5.00	4.60	92.0	80.0-120	
Trichloroethene	5.00	4.55	91.0	78.0-124	
Trichlorofluoromethane	5.00	5.35	107	59.0-147	
1,2,3-Trichloropropane	5.00	5.32	106	73.0-130	
1,2,3-Trimethylbenzene	5.00	4.67	93.4	77.0-120	
1,2,4-Trimethylbenzene	5.00	4.71	94.2	76.0-121	
1,3,5-Trimethylbenzene	5.00	4.94	98.8	76.0-122	
Vinyl acetate	25.0	26.1	104	11.0-160	
Vinyl chloride	5.00	5.30	106	67.0-131	
Xylenes, Total	15.0	14.3	95.3	79.0-123	
(S) Toluene-d8			103	80.0-120	
(S) 4-Bromofluorobenzene			88.8	77.0-126	
(S) 1,2-Dichloroethane-d4			99.1	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



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.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
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}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

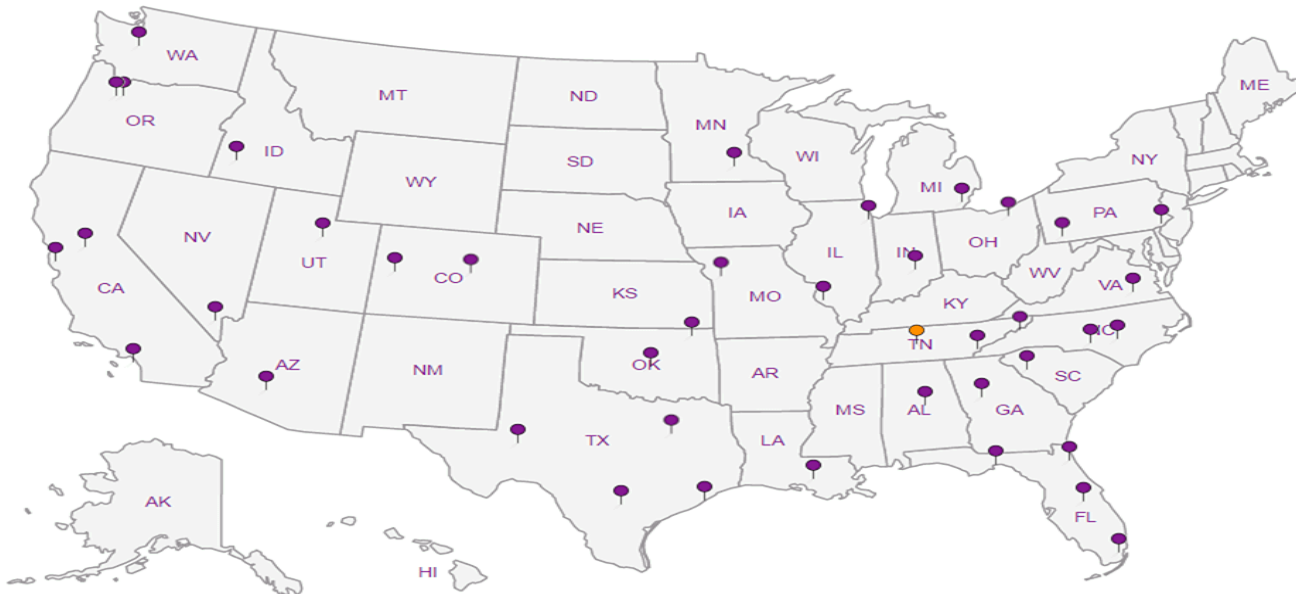
Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Report to:
Brian O'Neal/Bill Haldeman

Email To:
boneal@pesenv.com; bhdeman@pesenv.com; sm

Project Description: **American Linen**

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

Please Circle:
PT MT CT ET

Phone: 206-529-3980
Fax: 206-529-3985

Client Project #
1413.001.02.501E

Lab Project #
PESENVSWA-ALP

Collected by (print):
Sean Kounovsky

Site/Facility ID #
American Linen

P.O. #

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)

Quote #

Immediately Packed on Ice N Y

Same Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

Date Results Needed

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
MW-929-042920	Grab	GW	32	4/29/20	0845	9
MW-320-042920		GW	23		0945	9
GEI-1-042920		GW	31.8		0955	9
MW-333-042920		GW	38		1000	9
MW-322-042920		GW	60		1200	9
GEI-Mw-1-042920		GW	49		1225	9
GEI-2-042920		GW	54.6		1230	9
FMW-131-042920		GW	68		1405	9
MW-116-042920		GW	40		1410	9
MW-147-042920		GW	75		1455	12

Analysis / Container / Preservative

Analysis / Container / Preservative	Pres Chk
*NO3.504, Cl 125mlHDPE-NoPres	
Alkalinity 125mlHDPE-NoPres	
EEM RSK175LL 40mlAmb-HCl	
NWTPHGX 40mlAmb HCl	
TOC 250mlHDPE-HCl	
Total Fe Mn 6020 250mlHDPE-HNO3	
VOCs LL 8260D 40mlAmb-HCl	

Chain of Custody Page 1 of 2



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



SDG # 1213621
J237

Acctnum: PESENVSWA

Template: T165314

Prelogin: P763877

PM: 110 - Brian Ford

PB:

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: *Nitrate has a 48 hour holding time.

pH _____ Temp _____

Flow _____ Other _____

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:
 UPS FedEx Courier

Tracking # 1749 9996 8175

Relinquished by: (Signature)
[Signature]

Date: 4/29/20

Time:

Received by: (Signature)

Trip Blank Received: Yes No
HC / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C 18.1-2.7°C
Bottles Received: 105

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)
M Pappas

Date: 4-30-20 Time: 830

Hold:

Condition:
NCF / OK

PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 2



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



Report to:
Brian O'Neal/Bill Haldeman

Email To:
boneal@pesenv.com;baldeman@pesenv.com;sm

Project
Description: American Linen

City/State
Collected: Seattle, WA

Please Circle:
PT MT CT ET

Phone: 206-529-3980
Fax: 206-529-3985

Client Project #
1413.001.02.501E

Lab Project #
PESENVSWA-ALP

Collected by (print):
Sean Kounovsky

Site/Facility ID #
American Linen

P.O. #

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)

Quote #

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 X

No.
of
Cnts

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts	*NO3,SO4,Cl 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlHDPE-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs LL 8260D 40mlAmb-HCl	Remarks	Sample # (lab only)
EQ-042920	Grab	GW	-	4/29/20	1600	12	X	X	X	X	X	X	X		
TB-042920	Grab	GW	-	4/29/20	1605	2	X	X	X	X	X	X	X		
EQ-042920	Grab	GW	-	4/29/20	1500	12	X	X	X	X	X	X	X		11
TB-042920	Grab	GW	-	4/29/20	1505	2	X	X	X	X	X	X	X		12
		GW													
		GW													
		GW													
		GW													
		GW													

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

Remarks: *Nitrate has a 48 hour holding time.

pH _____ Temp _____
Flow _____ Other _____

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

Samples returned via:
 UPS FedEx Courier

Tracking #

Relinquished by: (Signature) <i>[Signature]</i>	Date: 4/29/20	Time: 1600	Received by: (Signature)	Trip Blank Received: Yes/No <input checked="" type="checkbox"/> HCL MeOH TBR	Bottles Received: 105	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C 27.1-27.7 CK	Date: Time: 4-30-20 830	Hold:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) M Pappas	Date: Time:	Condition: NG / OK	

Brian Ford

From: Shannon E. McKernan <SMcKernan@pesenv.com>
Sent: Friday, May 1, 2020 11:58 AM
To: Brian Ford
Subject: RE: Pace Analytical National Login for 1413.001.02.501E American Linen L1213621

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Brian-

Can we revise sample L1213621-09 to "MW116-042920"?

Thanks!
Shannon

-----Original Message-----

From: Brian Ford <bford@pacenational.com>
Sent: April 30, 2020 5:13 PM
To: Kim Vik <KVik@pesenv.com>; Bill Haldeman <bhaldeman@pesenv.com>; Brian O'Neal <boneal@pesenv.com>; Shannon E. McKernan <SMcKernan@pesenv.com>; Karsten Springstead <KSpringstead@pesenv.com>
Subject: Pace Analytical National Login for 1413.001.02.501E American Linen L1213621

"Privileged and Confidential"

Thank you for choosing Pace National! Please find enclosed PDF files containing your laboratory login confirmation and chain of custody.

Pace National is leading the laboratory industry with our On-line Data Management tools. Please contact your Project Manager to learn how to create historical Excel tables or access data in real time using powerful and intuitive software that is only available at <https://www.pacenational.com>.

Visit Pace National's secure data management web site - myData - for all your reporting and data management needs at https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fwww.pacenational.com%2flogin&c=E,1,J0lIGjjpstiQ07DLZPB70OuPLdBwnHBSs9fsJBgmAiCl4G9J5N4cWisFEXHQy_TDuNZyyLP7pEo-KDgyYMHCzw76HZV5oTOaev-sq65Pmw,,&typo=1

Pace National ... "Your Lab of Choice"

Brian Ford
Technical Service Representative
615-773-9772

Pace Analytical National
12065 Lebanon Rd.
Mt. Juliet, TN 37122

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PES Environmental, Inc.- WA

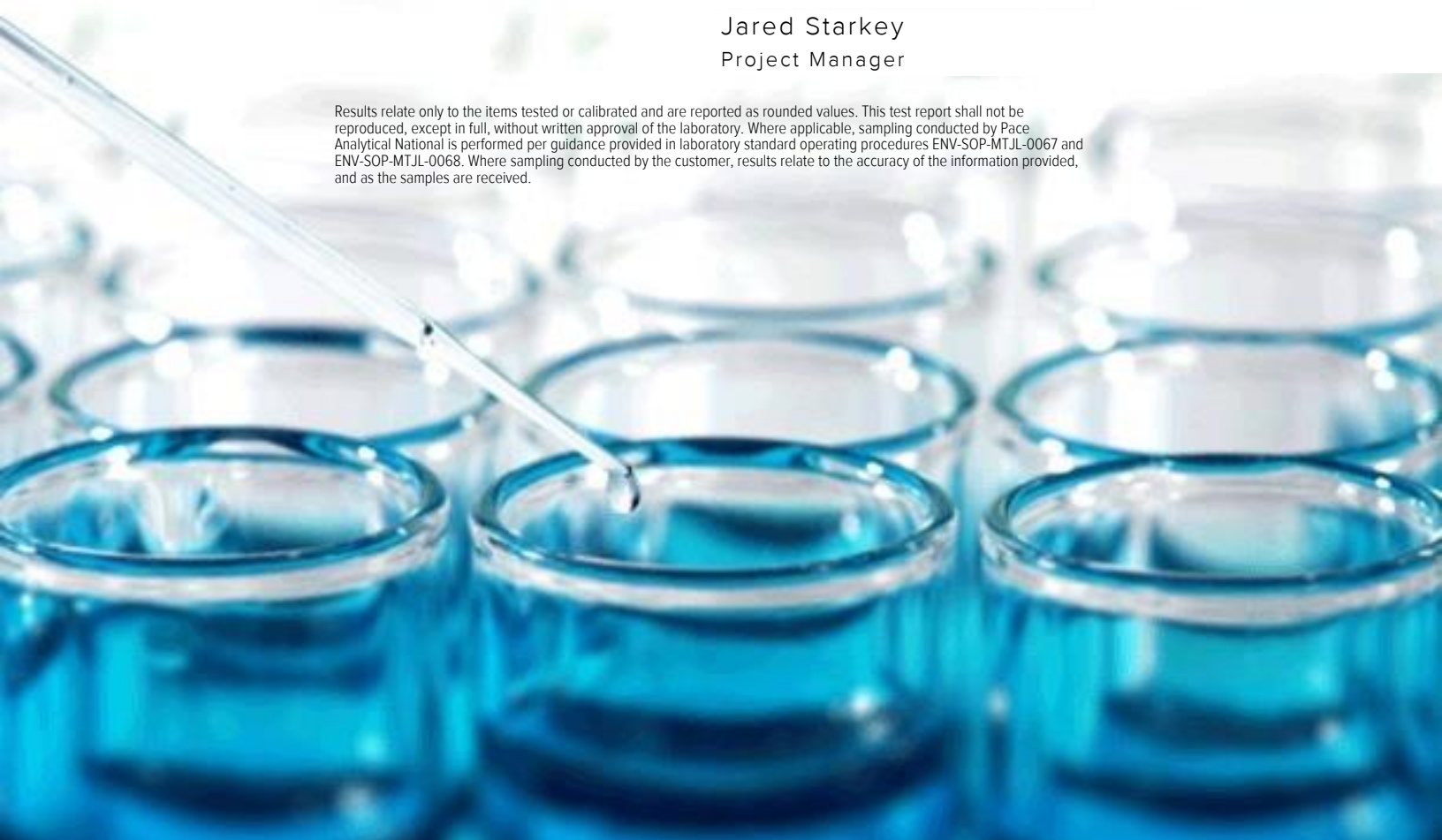
Sample Delivery Group: L1214057
Samples Received: 05/01/2020
Project Number: 1413.001.02.501E
Description: American Linen
Site: AMERICAN LINEN
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

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.





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SAMPLE SUMMARY

MW-146-043020 L1214057-01 GW

Collected by Hannah Cohen Collected date/time 04/30/20 09:55 Received date/time 05/01/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469125	1	05/03/20 10:46	05/03/20 10:46	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1469118	1	05/02/20 01:16	05/02/20 01:16	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1471458	1	05/08/20 00:56	05/08/20 00:56	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469558	1	05/06/20 16:41	05/06/20 20:23	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1470453	1	05/06/20 05:53	05/06/20 05:53	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1471909	1	05/07/20 13:00	05/07/20 13:00	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470473	100	05/05/20 00:13	05/05/20 00:13	ACG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

MW-154-043020 L1214057-02 GW

Collected by Hannah Cohen Collected date/time 04/30/20 11:35 Received date/time 05/01/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469125	1	05/03/20 10:56	05/03/20 10:56	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1469118	1	05/02/20 01:34	05/02/20 01:34	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1471458	1	05/08/20 01:18	05/08/20 01:18	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469558	1	05/06/20 16:41	05/06/20 20:40	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1470453	1	05/06/20 06:15	05/06/20 06:15	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1471909	1	05/07/20 13:03	05/07/20 13:03	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470473	1	05/05/20 00:32	05/05/20 00:32	ACG	Mt. Juliet, TN

6 Qc

7 Gl

8 Al

9 Sc

MW-153-043020 L1214057-03 GW

Collected by Hannah Cohen Collected date/time 04/30/20 13:45 Received date/time 05/01/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469125	1	05/03/20 11:19	05/03/20 11:19	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1469118	1	05/02/20 01:52	05/02/20 01:52	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1471459	1	05/06/20 20:37	05/06/20 20:37	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469558	1	05/06/20 16:41	05/06/20 20:43	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1470453	1	05/06/20 06:36	05/06/20 06:36	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1471909	1	05/07/20 13:06	05/07/20 13:06	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470473	1	05/05/20 00:51	05/05/20 00:51	ACG	Mt. Juliet, TN

MW-148-043020 L1214057-04 GW

Collected by Hannah Cohen Collected date/time 04/30/20 15:10 Received date/time 05/01/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469125	1	05/03/20 11:30	05/03/20 11:30	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1469118	1	05/02/20 02:10	05/02/20 02:10	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1469118	10	05/02/20 02:28	05/02/20 02:28	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1471459	1	05/06/20 20:58	05/06/20 20:58	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1469558	1	05/06/20 16:41	05/06/20 20:55	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1470453	1	05/06/20 06:57	05/06/20 06:57	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1471909	1	05/07/20 13:08	05/07/20 13:08	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1470473	1	05/05/20 01:11	05/05/20 01:11	ACG	Mt. Juliet, TN



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	383000		8450	20000	1	05/03/2020 10:46	WG1469125

Sample Narrative:

L1214057-01 WG1469125: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	40900		379	1000	1	05/02/2020 01:16	WG1469118
Nitrate	U		48.0	100	1	05/02/2020 01:16	WG1469118
Sulfate	13700		594	5000	1	05/02/2020 01:16	WG1469118

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)	3550		102	1000	1	05/08/2020 00:56	WG1471458

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2910		48.9	100	1	05/06/2020 20:23	WG1469558
Manganese	1100	V	1.32	5.00	1	05/06/2020 20:23	WG1469558

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	1080		31.6	100	1	05/06/2020 05:53	WG1470453
(S) a,a,a-Trifluorotoluene(FID)	98.2			78.0-120		05/06/2020 05:53	WG1470453

Sample Narrative:

L1214057-01 WG1470453: No discernable petroleum pattern

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	5020		0.287	0.678	1	05/07/2020 13:00	WG1471909
Ethane	U		0.296	1.29	1	05/07/2020 13:00	WG1471909
Ethene	511		0.422	1.27	1	05/07/2020 13:00	WG1471909

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	1130	2500	100	05/05/2020 00:13	WG1470473
Acrylonitrile	U		67.1	500	100	05/05/2020 00:13	WG1470473
Benzene	U		9.41	50.0	100	05/05/2020 00:13	WG1470473
Bromobenzene	U		11.8	50.0	100	05/05/2020 00:13	WG1470473
Bromodichloromethane	U		13.6	50.0	100	05/05/2020 00:13	WG1470473
Bromochloromethane	U		12.8	50.0	100	05/05/2020 00:13	WG1470473
Bromoform	U		12.9	50.0	100	05/05/2020 00:13	WG1470473
Bromomethane	U		60.5	250	100	05/05/2020 00:13	WG1470473
n-Butylbenzene	U		15.7	50.0	100	05/05/2020 00:13	WG1470473
sec-Butylbenzene	U		12.5	50.0	100	05/05/2020 00:13	WG1470473

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/30/20 09:55

L1214057

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
tert-Butylbenzene	U		12.7	50.0	100	05/05/2020 00:13	WG1470473
Carbon disulfide	U	<u>JO</u>	9.62	50.0	100	05/05/2020 00:13	WG1470473
Carbon tetrachloride	U		12.8	50.0	100	05/05/2020 00:13	WG1470473
Chlorobenzene	U		11.7	50.0	100	05/05/2020 00:13	WG1470473
Chlorodibromomethane	U		14.0	50.0	100	05/05/2020 00:13	WG1470473
Chloroethane	U		19.2	250	100	05/05/2020 00:13	WG1470473
Chloroform	U		11.1	50.0	100	05/05/2020 00:13	WG1470473
Chloromethane	U		96.0	125	100	05/05/2020 00:13	WG1470473
2-Chlorotoluene	U		10.6	50.0	100	05/05/2020 00:13	WG1470473
4-Chlorotoluene	U		11.4	50.0	100	05/05/2020 00:13	WG1470473
1,2-Dibromo-3-Chloropropane	U		27.6	250	100	05/05/2020 00:13	WG1470473
1,2-Dibromoethane	U		12.6	50.0	100	05/05/2020 00:13	WG1470473
Dibromomethane	U		12.2	50.0	100	05/05/2020 00:13	WG1470473
1,2-Dichlorobenzene	U		10.7	50.0	100	05/05/2020 00:13	WG1470473
1,3-Dichlorobenzene	U		29.9	50.0	100	05/05/2020 00:13	WG1470473
1,4-Dichlorobenzene	U		12.0	50.0	100	05/05/2020 00:13	WG1470473
Dichlorodifluoromethane	U		37.4	250	100	05/05/2020 00:13	WG1470473
1,1-Dichloroethane	U		10.0	50.0	100	05/05/2020 00:13	WG1470473
1,2-Dichloroethane	U		8.19	50.0	100	05/05/2020 00:13	WG1470473
1,1-Dichloroethene	U		18.8	50.0	100	05/05/2020 00:13	WG1470473
cis-1,2-Dichloroethene	2100		12.6	50.0	100	05/05/2020 00:13	WG1470473
trans-1,2-Dichloroethene	U		14.9	50.0	100	05/05/2020 00:13	WG1470473
1,2-Dichloropropane	U		14.9	50.0	100	05/05/2020 00:13	WG1470473
1,1-Dichloropropene	U		14.2	50.0	100	05/05/2020 00:13	WG1470473
1,3-Dichloropropane	U		10.9	100	100	05/05/2020 00:13	WG1470473
cis-1,3-Dichloropropene	U		11.1	50.0	100	05/05/2020 00:13	WG1470473
trans-1,3-Dichloropropene	U		11.8	50.0	100	05/05/2020 00:13	WG1470473
trans-1,4-Dichloro-2-butene	U		46.7	500	100	05/05/2020 00:13	WG1470473
2,2-Dichloropropane	U		16.1	50.0	100	05/05/2020 00:13	WG1470473
Di-isopropyl ether	U		10.5	50.0	100	05/05/2020 00:13	WG1470473
Ethylbenzene	U		13.7	50.0	100	05/05/2020 00:13	WG1470473
Hexachloro-1,3-butadiene	U		33.7	100	100	05/05/2020 00:13	WG1470473
2-Hexanone	U		78.7	500	100	05/05/2020 00:13	WG1470473
n-Hexane	U		74.9	500	100	05/05/2020 00:13	WG1470473
Iodomethane	U		55.4	500	100	05/05/2020 00:13	WG1470473
Isopropylbenzene	U		10.5	50.0	100	05/05/2020 00:13	WG1470473
p-Isopropyltoluene	U		12.0	50.0	100	05/05/2020 00:13	WG1470473
2-Butanone (MEK)	U		119	500	100	05/05/2020 00:13	WG1470473
Methylene Chloride	U		43.0	250	100	05/05/2020 00:13	WG1470473
4-Methyl-2-pentanone (MIBK)	U		47.8	500	100	05/05/2020 00:13	WG1470473
Methyl tert-butyl ether	U		10.1	50.0	100	05/05/2020 00:13	WG1470473
Naphthalene	U		17.4	250	100	05/05/2020 00:13	WG1470473
n-Propylbenzene	U		9.93	50.0	100	05/05/2020 00:13	WG1470473
Styrene	U		11.8	50.0	100	05/05/2020 00:13	WG1470473
1,1,1,2-Tetrachloroethane	U		14.7	50.0	100	05/05/2020 00:13	WG1470473
1,1,2,2-Tetrachloroethane	U		13.3	50.0	100	05/05/2020 00:13	WG1470473
1,1,2-Trichlorotrifluoroethane	U		18.0	50.0	100	05/05/2020 00:13	WG1470473
Tetrachloroethene	U		30.0	50.0	100	05/05/2020 00:13	WG1470473
Toluene	U		27.8	50.0	100	05/05/2020 00:13	WG1470473
1,2,3-Trichlorobenzene	U		16.4	50.0	100	05/05/2020 00:13	WG1470473
1,2,4-Trichlorobenzene	U		48.1	100	100	05/05/2020 00:13	WG1470473
1,1,1-Trichloroethane	U		14.9	50.0	100	05/05/2020 00:13	WG1470473
1,1,2-Trichloroethane	U		15.8	50.0	100	05/05/2020 00:13	WG1470473
Trichloroethene	U		19.0	50.0	100	05/05/2020 00:13	WG1470473
Trichlorofluoromethane	U		16.0	250	100	05/05/2020 00:13	WG1470473
1,2,3-Trichloropropane	U		23.7	250	100	05/05/2020 00:13	WG1470473

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
1,2,4-Trimethylbenzene	U		32.2	50.0	100	05/05/2020 00:13	WG1470473
1,2,3-Trimethylbenzene	U		10.4	50.0	100	05/05/2020 00:13	WG1470473
1,3,5-Trimethylbenzene	U		10.4	50.0	100	05/05/2020 00:13	WG1470473
Vinyl acetate	U		69.2	500	100	05/05/2020 00:13	WG1470473
Vinyl chloride	6040		23.4	50.0	100	05/05/2020 00:13	WG1470473
Xylenes, Total	U		17.4	150	100	05/05/2020 00:13	WG1470473
(S) Toluene-d8	109			80.0-120		05/05/2020 00:13	WG1470473
(S) 4-Bromofluorobenzene	103			77.0-126		05/05/2020 00:13	WG1470473
(S) 1,2-Dichloroethane-d4	110			70.0-130		05/05/2020 00:13	WG1470473

- 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	234000		8450	20000	1	05/03/2020 10:56	WG1469125

Sample Narrative:

L1214057-02 WG1469125: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	22300		379	1000	1	05/02/2020 01:34	WG1469118
Nitrate	3090		48.0	100	1	05/02/2020 01:34	WG1469118
Sulfate	74600		594	5000	1	05/02/2020 01:34	WG1469118

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)	1380	<u>B</u>	102	1000	1	05/08/2020 01:18	WG1471458

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1530		48.9	100	1	05/06/2020 20:40	WG1469558
Manganese	360		1.32	5.00	1	05/06/2020 20:40	WG1469558

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	47.5	<u>B, J</u>	31.6	100	1	05/06/2020 06:15	WG1470453
(S) a,a,a-Trifluorotoluene(FID)	98.6			78.0-120		05/06/2020 06:15	WG1470453

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	05/07/2020 13:03	WG1471909
Ethane	U		0.296	1.29	1	05/07/2020 13:03	WG1471909
Ethene	U		0.422	1.27	1	05/07/2020 13:03	WG1471909

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>	11.3	25.0	1	05/05/2020 00:32	WG1470473
Acrylonitrile	U		0.671	5.00	1	05/05/2020 00:32	WG1470473
Benzene	U		0.0941	0.500	1	05/05/2020 00:32	WG1470473
Bromobenzene	U		0.118	0.500	1	05/05/2020 00:32	WG1470473
Bromodichloromethane	U		0.136	0.500	1	05/05/2020 00:32	WG1470473
Bromochloromethane	U		0.128	0.500	1	05/05/2020 00:32	WG1470473
Bromoform	U		0.129	0.500	1	05/05/2020 00:32	WG1470473
Bromomethane	U		0.605	2.50	1	05/05/2020 00:32	WG1470473
n-Butylbenzene	U		0.157	0.500	1	05/05/2020 00:32	WG1470473
sec-Butylbenzene	U		0.125	0.500	1	05/05/2020 00:32	WG1470473
tert-Butylbenzene	U		0.127	0.500	1	05/05/2020 00:32	WG1470473
Carbon disulfide	U	<u>JO</u>	0.0962	0.500	1	05/05/2020 00:32	WG1470473
Carbon tetrachloride	U		0.128	0.500	1	05/05/2020 00:32	WG1470473

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	
Chlorobenzene	U		0.117	0.500	1	05/05/2020 00:32	WG1470473
Chlorodibromomethane	U		0.140	0.500	1	05/05/2020 00:32	WG1470473
Chloroethane	U		0.192	2.50	1	05/05/2020 00:32	WG1470473
Chloroform	U		0.111	0.500	1	05/05/2020 00:32	WG1470473
Chloromethane	U		0.960	1.25	1	05/05/2020 00:32	WG1470473
2-Chlorotoluene	U		0.106	0.500	1	05/05/2020 00:32	WG1470473
4-Chlorotoluene	U		0.114	0.500	1	05/05/2020 00:32	WG1470473
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/05/2020 00:32	WG1470473
1,2-Dibromoethane	U		0.126	0.500	1	05/05/2020 00:32	WG1470473
Dibromomethane	U		0.122	0.500	1	05/05/2020 00:32	WG1470473
1,2-Dichlorobenzene	U		0.107	0.500	1	05/05/2020 00:32	WG1470473
1,3-Dichlorobenzene	U		0.299	0.500	1	05/05/2020 00:32	WG1470473
1,4-Dichlorobenzene	U		0.120	0.500	1	05/05/2020 00:32	WG1470473
Dichlorodifluoromethane	U		0.374	2.50	1	05/05/2020 00:32	WG1470473
1,1-Dichloroethane	U		0.100	0.500	1	05/05/2020 00:32	WG1470473
1,2-Dichloroethane	U		0.0819	0.500	1	05/05/2020 00:32	WG1470473
1,1-Dichloroethene	U		0.188	0.500	1	05/05/2020 00:32	WG1470473
cis-1,2-Dichloroethene	2.58		0.126	0.500	1	05/05/2020 00:32	WG1470473
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/05/2020 00:32	WG1470473
1,2-Dichloropropane	U		0.149	0.500	1	05/05/2020 00:32	WG1470473
1,1-Dichloropropene	U		0.142	0.500	1	05/05/2020 00:32	WG1470473
1,3-Dichloropropane	U		0.109	1.00	1	05/05/2020 00:32	WG1470473
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/05/2020 00:32	WG1470473
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/05/2020 00:32	WG1470473
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/05/2020 00:32	WG1470473
2,2-Dichloropropane	U		0.161	0.500	1	05/05/2020 00:32	WG1470473
Di-isopropyl ether	U		0.105	0.500	1	05/05/2020 00:32	WG1470473
Ethylbenzene	U		0.137	0.500	1	05/05/2020 00:32	WG1470473
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/05/2020 00:32	WG1470473
2-Hexanone	U		0.787	5.00	1	05/05/2020 00:32	WG1470473
n-Hexane	U		0.749	5.00	1	05/05/2020 00:32	WG1470473
Iodomethane	U		0.554	5.00	1	05/05/2020 00:32	WG1470473
Isopropylbenzene	U		0.105	0.500	1	05/05/2020 00:32	WG1470473
p-Isopropyltoluene	U		0.120	0.500	1	05/05/2020 00:32	WG1470473
2-Butanone (MEK)	U		1.19	5.00	1	05/05/2020 00:32	WG1470473
Methylene Chloride	U		0.430	2.50	1	05/05/2020 00:32	WG1470473
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/05/2020 00:32	WG1470473
Methyl tert-butyl ether	U		0.101	0.500	1	05/05/2020 00:32	WG1470473
Naphthalene	U		0.174	2.50	1	05/05/2020 00:32	WG1470473
n-Propylbenzene	U		0.0993	0.500	1	05/05/2020 00:32	WG1470473
Styrene	U		0.118	0.500	1	05/05/2020 00:32	WG1470473
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/05/2020 00:32	WG1470473
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/05/2020 00:32	WG1470473
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/05/2020 00:32	WG1470473
Tetrachloroethene	12.1		0.300	0.500	1	05/05/2020 00:32	WG1470473
Toluene	U		0.278	0.500	1	05/05/2020 00:32	WG1470473
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/05/2020 00:32	WG1470473
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/05/2020 00:32	WG1470473
1,1,1-Trichloroethane	U		0.149	0.500	1	05/05/2020 00:32	WG1470473
1,1,2-Trichloroethane	U		0.158	0.500	1	05/05/2020 00:32	WG1470473
Trichloroethene	1.06		0.190	0.500	1	05/05/2020 00:32	WG1470473
Trichlorofluoromethane	U		0.160	2.50	1	05/05/2020 00:32	WG1470473
1,2,3-Trichloropropane	U		0.237	2.50	1	05/05/2020 00:32	WG1470473
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/05/2020 00:32	WG1470473
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/05/2020 00:32	WG1470473
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/05/2020 00:32	WG1470473

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
Vinyl acetate	U		0.692	5.00	1	05/05/2020 00:32	WG1470473
Vinyl chloride	U		0.234	0.500	1	05/05/2020 00:32	WG1470473
Xylenes, Total	U		0.174	1.50	1	05/05/2020 00:32	WG1470473
<i>(S) Toluene-d8</i>	107			80.0-120		05/05/2020 00:32	WG1470473
<i>(S) 4-Bromofluorobenzene</i>	104			77.0-126		05/05/2020 00:32	WG1470473
<i>(S) 1,2-Dichloroethane-d4</i>	115			70.0-130		05/05/2020 00:32	WG1470473

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	140000		8450	20000	1	05/03/2020 11:19	WG1469125

Sample Narrative:

L1214057-03 WG1469125: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	7300		379	1000	1	05/02/2020 01:52	WG1469118
Nitrate	U		48.0	100	1	05/02/2020 01:52	WG1469118
Sulfate	6230		594	5000	1	05/02/2020 01:52	WG1469118

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)	843	B J	102	1000	1	05/06/2020 20:37	WG1471459

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	7790		48.9	100	1	05/06/2020 20:43	WG1469558
Manganese	420		1.32	5.00	1	05/06/2020 20:43	WG1469558

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	38.2	B J	31.6	100	1	05/06/2020 06:36	WG1470453
(S) a,a,a-Trifluorotoluene(FID)	98.5			78.0-120		05/06/2020 06:36	WG1470453

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	05/07/2020 13:06	WG1471909
Ethane	U		0.296	1.29	1	05/07/2020 13:06	WG1471909
Ethene	U		0.422	1.27	1	05/07/2020 13:06	WG1471909

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	11.3	25.0	1	05/05/2020 00:51	WG1470473
Acrylonitrile	U		0.671	5.00	1	05/05/2020 00:51	WG1470473
Benzene	U		0.0941	0.500	1	05/05/2020 00:51	WG1470473
Bromobenzene	U		0.118	0.500	1	05/05/2020 00:51	WG1470473
Bromodichloromethane	U		0.136	0.500	1	05/05/2020 00:51	WG1470473
Bromochloromethane	U		0.128	0.500	1	05/05/2020 00:51	WG1470473
Bromoform	U		0.129	0.500	1	05/05/2020 00:51	WG1470473
Bromomethane	U		0.605	2.50	1	05/05/2020 00:51	WG1470473
n-Butylbenzene	U		0.157	0.500	1	05/05/2020 00:51	WG1470473
sec-Butylbenzene	U		0.125	0.500	1	05/05/2020 00:51	WG1470473
tert-Butylbenzene	U		0.127	0.500	1	05/05/2020 00:51	WG1470473
Carbon disulfide	U	JO	0.0962	0.500	1	05/05/2020 00:51	WG1470473
Carbon tetrachloride	U		0.128	0.500	1	05/05/2020 00:51	WG1470473

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	
Chlorobenzene	U		0.117	0.500	1	05/05/2020 00:51	WG1470473
Chlorodibromomethane	U		0.140	0.500	1	05/05/2020 00:51	WG1470473
Chloroethane	U		0.192	2.50	1	05/05/2020 00:51	WG1470473
Chloroform	U		0.111	0.500	1	05/05/2020 00:51	WG1470473
Chloromethane	U		0.960	1.25	1	05/05/2020 00:51	WG1470473
2-Chlorotoluene	U		0.106	0.500	1	05/05/2020 00:51	WG1470473
4-Chlorotoluene	U		0.114	0.500	1	05/05/2020 00:51	WG1470473
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/05/2020 00:51	WG1470473
1,2-Dibromoethane	U		0.126	0.500	1	05/05/2020 00:51	WG1470473
Dibromomethane	U		0.122	0.500	1	05/05/2020 00:51	WG1470473
1,2-Dichlorobenzene	U		0.107	0.500	1	05/05/2020 00:51	WG1470473
1,3-Dichlorobenzene	U		0.299	0.500	1	05/05/2020 00:51	WG1470473
1,4-Dichlorobenzene	U		0.120	0.500	1	05/05/2020 00:51	WG1470473
Dichlorodifluoromethane	U		0.374	2.50	1	05/05/2020 00:51	WG1470473
1,1-Dichloroethane	U		0.100	0.500	1	05/05/2020 00:51	WG1470473
1,2-Dichloroethane	U		0.0819	0.500	1	05/05/2020 00:51	WG1470473
1,1-Dichloroethene	U		0.188	0.500	1	05/05/2020 00:51	WG1470473
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/05/2020 00:51	WG1470473
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/05/2020 00:51	WG1470473
1,2-Dichloropropane	U		0.149	0.500	1	05/05/2020 00:51	WG1470473
1,1-Dichloropropene	U		0.142	0.500	1	05/05/2020 00:51	WG1470473
1,3-Dichloropropane	U		0.109	1.00	1	05/05/2020 00:51	WG1470473
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/05/2020 00:51	WG1470473
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/05/2020 00:51	WG1470473
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/05/2020 00:51	WG1470473
2,2-Dichloropropane	U		0.161	0.500	1	05/05/2020 00:51	WG1470473
Di-isopropyl ether	U		0.105	0.500	1	05/05/2020 00:51	WG1470473
Ethylbenzene	U		0.137	0.500	1	05/05/2020 00:51	WG1470473
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/05/2020 00:51	WG1470473
2-Hexanone	U		0.787	5.00	1	05/05/2020 00:51	WG1470473
n-Hexane	U		0.749	5.00	1	05/05/2020 00:51	WG1470473
Iodomethane	U		0.554	5.00	1	05/05/2020 00:51	WG1470473
Isopropylbenzene	U		0.105	0.500	1	05/05/2020 00:51	WG1470473
p-Isopropyltoluene	U		0.120	0.500	1	05/05/2020 00:51	WG1470473
2-Butanone (MEK)	U		1.19	5.00	1	05/05/2020 00:51	WG1470473
Methylene Chloride	U		0.430	2.50	1	05/05/2020 00:51	WG1470473
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/05/2020 00:51	WG1470473
Methyl tert-butyl ether	U		0.101	0.500	1	05/05/2020 00:51	WG1470473
Naphthalene	U		0.174	2.50	1	05/05/2020 00:51	WG1470473
n-Propylbenzene	U		0.0993	0.500	1	05/05/2020 00:51	WG1470473
Styrene	U		0.118	0.500	1	05/05/2020 00:51	WG1470473
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/05/2020 00:51	WG1470473
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/05/2020 00:51	WG1470473
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/05/2020 00:51	WG1470473
Tetrachloroethene	U		0.300	0.500	1	05/05/2020 00:51	WG1470473
Toluene	U		0.278	0.500	1	05/05/2020 00:51	WG1470473
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/05/2020 00:51	WG1470473
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/05/2020 00:51	WG1470473
1,1,1-Trichloroethane	U		0.149	0.500	1	05/05/2020 00:51	WG1470473
1,1,2-Trichloroethane	U		0.158	0.500	1	05/05/2020 00:51	WG1470473
Trichloroethene	U		0.190	0.500	1	05/05/2020 00:51	WG1470473
Trichlorofluoromethane	U		0.160	2.50	1	05/05/2020 00:51	WG1470473
1,2,3-Trichloropropane	U		0.237	2.50	1	05/05/2020 00:51	WG1470473
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/05/2020 00:51	WG1470473
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/05/2020 00:51	WG1470473
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/05/2020 00:51	WG1470473

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	
Vinyl acetate	U		0.692	5.00	1	05/05/2020 00:51	WG1470473
Vinyl chloride	U		0.234	0.500	1	05/05/2020 00:51	WG1470473
Xylenes, Total	U		0.174	1.50	1	05/05/2020 00:51	WG1470473
<i>(S)</i> Toluene-d8	107			80.0-120		05/05/2020 00:51	WG1470473
<i>(S)</i> 4-Bromofluorobenzene	101			77.0-126		05/05/2020 00:51	WG1470473
<i>(S)</i> 1,2-Dichloroethane-d4	114			70.0-130		05/05/2020 00:51	WG1470473

- 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	160000		8450	20000	1	05/03/2020 11:30	WG1469125

Sample Narrative:

L1214057-04 WG1469125: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	16500		379	1000	1	05/02/2020 02:10	WG1469118
Nitrate	U		48.0	100	1	05/02/2020 02:10	WG1469118
Sulfate	149000		5940	50000	10	05/02/2020 02:28	WG1469118

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)	2840		102	1000	1	05/06/2020 20:58	WG1471459

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	30300		48.9	100	1	05/06/2020 20:55	WG1469558
Manganese	774		1.32	5.00	1	05/06/2020 20:55	WG1469558

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	36.8	<u>B</u>	31.6	100	1	05/06/2020 06:57	WG1470453
(S) a,a,a-Trifluorotoluene(FID)	98.5			78.0-120		05/06/2020 06:57	WG1470453

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	1270		0.287	0.678	1	05/07/2020 13:08	WG1471909
Ethane	U		0.296	1.29	1	05/07/2020 13:08	WG1471909
Ethene	U		0.422	1.27	1	05/07/2020 13:08	WG1471909

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>	11.3	25.0	1	05/05/2020 01:11	WG1470473
Acrylonitrile	U		0.671	5.00	1	05/05/2020 01:11	WG1470473
Benzene	U		0.0941	0.500	1	05/05/2020 01:11	WG1470473
Bromobenzene	U		0.118	0.500	1	05/05/2020 01:11	WG1470473
Bromodichloromethane	U		0.136	0.500	1	05/05/2020 01:11	WG1470473
Bromochloromethane	U		0.128	0.500	1	05/05/2020 01:11	WG1470473
Bromoform	U		0.129	0.500	1	05/05/2020 01:11	WG1470473
Bromomethane	U		0.605	2.50	1	05/05/2020 01:11	WG1470473
n-Butylbenzene	U		0.157	0.500	1	05/05/2020 01:11	WG1470473
sec-Butylbenzene	U		0.125	0.500	1	05/05/2020 01:11	WG1470473
tert-Butylbenzene	U		0.127	0.500	1	05/05/2020 01:11	WG1470473
Carbon disulfide	U	<u>JO</u>	0.0962	0.500	1	05/05/2020 01:11	WG1470473
Carbon tetrachloride	U		0.128	0.500	1	05/05/2020 01:11	WG1470473

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/30/20 15:10

L1214057

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.117	0.500	1	05/05/2020 01:11	WG1470473
Chlorodibromomethane	U		0.140	0.500	1	05/05/2020 01:11	WG1470473
Chloroethane	U		0.192	2.50	1	05/05/2020 01:11	WG1470473
Chloroform	U		0.111	0.500	1	05/05/2020 01:11	WG1470473
Chloromethane	U		0.960	1.25	1	05/05/2020 01:11	WG1470473
2-Chlorotoluene	U		0.106	0.500	1	05/05/2020 01:11	WG1470473
4-Chlorotoluene	U		0.114	0.500	1	05/05/2020 01:11	WG1470473
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/05/2020 01:11	WG1470473
1,2-Dibromoethane	U		0.126	0.500	1	05/05/2020 01:11	WG1470473
Dibromomethane	U		0.122	0.500	1	05/05/2020 01:11	WG1470473
1,2-Dichlorobenzene	U		0.107	0.500	1	05/05/2020 01:11	WG1470473
1,3-Dichlorobenzene	U		0.299	0.500	1	05/05/2020 01:11	WG1470473
1,4-Dichlorobenzene	U		0.120	0.500	1	05/05/2020 01:11	WG1470473
Dichlorodifluoromethane	U		0.374	2.50	1	05/05/2020 01:11	WG1470473
1,1-Dichloroethane	U		0.100	0.500	1	05/05/2020 01:11	WG1470473
1,2-Dichloroethane	U		0.0819	0.500	1	05/05/2020 01:11	WG1470473
1,1-Dichloroethene	U		0.188	0.500	1	05/05/2020 01:11	WG1470473
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/05/2020 01:11	WG1470473
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/05/2020 01:11	WG1470473
1,2-Dichloropropane	U		0.149	0.500	1	05/05/2020 01:11	WG1470473
1,1-Dichloropropene	U		0.142	0.500	1	05/05/2020 01:11	WG1470473
1,3-Dichloropropane	U		0.109	1.00	1	05/05/2020 01:11	WG1470473
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/05/2020 01:11	WG1470473
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/05/2020 01:11	WG1470473
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/05/2020 01:11	WG1470473
2,2-Dichloropropane	U		0.161	0.500	1	05/05/2020 01:11	WG1470473
Di-isopropyl ether	U		0.105	0.500	1	05/05/2020 01:11	WG1470473
Ethylbenzene	U		0.137	0.500	1	05/05/2020 01:11	WG1470473
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/05/2020 01:11	WG1470473
2-Hexanone	U		0.787	5.00	1	05/05/2020 01:11	WG1470473
n-Hexane	U		0.749	5.00	1	05/05/2020 01:11	WG1470473
Iodomethane	U		0.554	5.00	1	05/05/2020 01:11	WG1470473
Isopropylbenzene	U		0.105	0.500	1	05/05/2020 01:11	WG1470473
p-Isopropyltoluene	U		0.120	0.500	1	05/05/2020 01:11	WG1470473
2-Butanone (MEK)	U		1.19	5.00	1	05/05/2020 01:11	WG1470473
Methylene Chloride	U		0.430	2.50	1	05/05/2020 01:11	WG1470473
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/05/2020 01:11	WG1470473
Methyl tert-butyl ether	U		0.101	0.500	1	05/05/2020 01:11	WG1470473
Naphthalene	U		0.174	2.50	1	05/05/2020 01:11	WG1470473
n-Propylbenzene	U		0.0993	0.500	1	05/05/2020 01:11	WG1470473
Styrene	U		0.118	0.500	1	05/05/2020 01:11	WG1470473
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/05/2020 01:11	WG1470473
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/05/2020 01:11	WG1470473
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/05/2020 01:11	WG1470473
Tetrachloroethene	U		0.300	0.500	1	05/05/2020 01:11	WG1470473
Toluene	U		0.278	0.500	1	05/05/2020 01:11	WG1470473
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/05/2020 01:11	WG1470473
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/05/2020 01:11	WG1470473
1,1,1-Trichloroethane	U		0.149	0.500	1	05/05/2020 01:11	WG1470473
1,1,2-Trichloroethane	U		0.158	0.500	1	05/05/2020 01:11	WG1470473
Trichloroethene	U		0.190	0.500	1	05/05/2020 01:11	WG1470473
Trichlorofluoromethane	U		0.160	2.50	1	05/05/2020 01:11	WG1470473
1,2,3-Trichloropropane	U		0.237	2.50	1	05/05/2020 01:11	WG1470473
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/05/2020 01:11	WG1470473
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/05/2020 01:11	WG1470473
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/05/2020 01:11	WG1470473

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
Vinyl acetate	U		0.692	5.00	1	05/05/2020 01:11	WG1470473
Vinyl chloride	U		0.234	0.500	1	05/05/2020 01:11	WG1470473
Xylenes, Total	U		0.174	1.50	1	05/05/2020 01:11	WG1470473
<i>(S) Toluene-d8</i>	107			80.0-120		05/05/2020 01:11	WG1470473
<i>(S) 4-Bromofluorobenzene</i>	102			77.0-126		05/05/2020 01:11	WG1470473
<i>(S) 1,2-Dichloroethane-d4</i>	116			70.0-130		05/05/2020 01:11	WG1470473

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3524213-1 05/03/20 09:21

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1213843-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1213843-01 05/03/20 09:48 • (DUP) R3524213-2 05/03/20 09:58

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	255000	257000	1	0.841		20

Sample Narrative:

OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

L1214284-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1214284-08 05/03/20 12:48 • (DUP) R3524213-4 05/03/20 13:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	226000	225000	1	0.477		20

Sample Narrative:

OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3524213-3 05/03/20 11:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	101000	101	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3524223-1 05/01/20 16:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		379	1000
Nitrate	U		48.0	100
Sulfate	U		594	5000

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1213960-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1213960-01 05/01/20 18:25 • (DUP) R3524223-3 05/01/20 18:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	5180	5250	1	1.37		15
Nitrate	469	565	1	18.6	J3	15
Sulfate	30500	31400	1	2.95		15

L1214061-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1214061-04 05/02/20 04:33 • (DUP) R3524223-7 05/02/20 04:51

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	11400	11500	1	0.338		15
Nitrate	2000	2350	1	15.8	J3	15
Sulfate	ND	0.000	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3524223-2 05/01/20 17:13

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40000	39800	99.4	80.0-120	
Nitrate	8000	8050	101	80.0-120	
Sulfate	40000	40100	100	80.0-120	



L1214028-25 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1214028-25 05/01/20 19:54 • (MS) R3524223-4 05/01/20 20:48 • (MSD) R3524223-5 05/01/20 21:06

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 %
Chloride	50000	5140	55700	55700	101	101	1	80.0-120			0.00969	15
Nitrate	5000	1070	6190	6190	102	102	1	80.0-120			0.0695	15
Sulfate	50000	ND	51100	51100	102	102	1	80.0-120			0.0133	15

L1214061-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1214061-03 05/02/20 03:58 • (MS) R3524223-6 05/02/20 04:16

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	32800	81600	97.6	1	80.0-120	
Nitrate	5000	117	5120	100	1	80.0-120	
Sulfate	50000	12600	62200	99.3	1	80.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3525900-1 05/07/20 15:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	347	↓	102	1000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1214043-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1214043-17 05/07/20 18:39 • (DUP) R3525900-3 05/07/20 19:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	6650	6640	1	0.196		20

L1214043-25 Original Sample (OS) • Duplicate (DUP)

(OS) L1214043-25 05/07/20 23:02 • (DUP) R3525900-6 05/07/20 23:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	4280000	4390000	50	2.72		20

Laboratory Control Sample (LCS)

(LCS) R3525900-2 05/07/20 16:13

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC	75000	82500	110	85.0-115	

L1214057-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1214057-02 05/08/20 01:18 • (MS) R3525900-7 05/08/20 01:41 • (MSD) R3525900-8 05/08/20 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
TOC	50000	1380	57300	57900	112	113	1	80.0-120			1.16	20



Method Blank (MB)

(MB) R3525475-1 05/06/20 19:48

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	227	↓	102	1000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1214061-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1214061-04 05/06/20 21:55 • (DUP) R3525475-3 05/06/20 22:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	ND	305	1	0.000		20

L1214190-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1214190-05 05/07/20 01:27 • (DUP) R3525475-6 05/07/20 01:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	948	898	1	5.46	↓	20

Laboratory Control Sample (LCS)

(LCS) R3525475-2 05/06/20 20:21

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	74800	99.7	85.0-115	

L1214190-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1214190-01 05/06/20 23:51 • (MS) R3525475-4 05/07/20 00:09 • (MSD) R3525475-5 05/07/20 00:27

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	997	53800	53900	106	106	1	80.0-120			0.223	20

L1214190-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1214190-07 05/07/20 03:20 • (MS) R3525475-7 05/07/20 03:38 • (MSD) R3525475-8 05/07/20 03:57

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	596	53500	53800	106	106	1	80.0-120			0.485	20



Method Blank (MB)

(MB) R3525315-1 05/06/20 20:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Iron	U		48.9	100
Manganese	U		1.32	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) R3525315-2 05/06/20 20:19

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	5000	4320	86.4	80.0-120	
Manganese	50.0	42.3	84.5	80.0-120	

L1214057-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1214057-01 05/06/20 20:23 • (MS) R3525315-4 05/06/20 20:30 • (MSD) R3525315-5 05/06/20 20:33

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	2910	7070	6770	83.2	77.1	1	75.0-125			4.41	20
Manganese	50.0	1100	1040	1010	0.000	0.000	1	75.0-125	<u>V</u>	<u>V</u>	2.41	20



Method Blank (MB)

(MB) R3525621-2 05/06/20 01:57

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	67.1	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	98.4			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3525621-1 05/06/20 01:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5610	102	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			105	78.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3525464-2 05/07/20 11:05

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

L1214043-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1214043-14 05/07/20 11:24 • (DUP) R3525464-3 05/07/20 12:51

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	212	259	1	20.0		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

L1214110-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1214110-02 05/07/20 13:29 • (DUP) R3525464-4 05/07/20 13:32

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	625	634	1	1.43		20
Ethane	975	1000	1	2.53		20
Ethene	ND	0.000	1	0.000		20

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

(LCS) R3525464-1 05/07/20 11:00 • (LCSD) R3525464-5 05/07/20 13:35

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	58.9	62.5	86.9	92.2	85.0-115			5.93	20
Ethane	129	115	125	89.1	96.9	85.0-115			8.33	20
Ethene	127	109	120	85.8	94.5	85.0-115			9.61	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3526316-3 05/04/20 20:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromochloromethane	U		0.128	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
trans-1,4-Dichloro-2-butene	U		0.467	5.00
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3526316-3 05/04/20 20:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	0.500
Hexachloro-1,3-butadiene	U		0.337	1.00
2-Hexanone	U		0.787	5.00
n-Hexane	U		0.749	5.00
Iodomethane	U		0.554	5.00
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	0.500
1,2,4-Trimethylbenzene	U		0.322	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl acetate	U		0.692	5.00
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	107			80.0-120
(S) 4-Bromofluorobenzene	102			77.0-126
(S) 1,2-Dichloroethane-d4	108			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) R3526316-1 05/04/20 19:42 • (LCSD) R3526316-2 05/04/20 20:01

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	42.0	44.7	168	179	19.0-160	J4	J4	6.23	27
Acrylonitrile	25.0	25.4	26.6	102	106	55.0-149			4.62	20
Benzene	5.00	4.75	5.04	95.0	101	70.0-123			5.92	20
Bromobenzene	5.00	4.80	5.10	96.0	102	73.0-121			6.06	20
Bromodichloromethane	5.00	5.26	5.50	105	110	75.0-120			4.46	20
Bromochloromethane	5.00	5.40	5.55	108	111	76.0-122			2.74	20
Bromoform	5.00	5.25	5.32	105	106	68.0-132			1.32	20
Bromomethane	5.00	5.56	6.14	111	123	10.0-160			9.91	25
n-Butylbenzene	5.00	5.23	5.68	105	114	73.0-125			8.25	20
sec-Butylbenzene	5.00	5.33	5.62	107	112	75.0-125			5.30	20
tert-Butylbenzene	5.00	5.09	5.40	102	108	76.0-124			5.91	20
Carbon disulfide	5.00	3.76	3.95	75.2	79.0	61.0-128			4.93	20
Carbon tetrachloride	5.00	4.96	5.62	99.2	112	68.0-126			12.5	20
Chlorobenzene	5.00	4.95	5.32	99.0	106	80.0-121			7.21	20
Chlorodibromomethane	5.00	5.10	5.31	102	106	77.0-125			4.03	20
Chloroethane	5.00	5.64	6.22	113	124	47.0-150			9.78	20
Chloroform	5.00	5.01	5.44	100	109	73.0-120			8.23	20
Chloromethane	5.00	5.03	5.28	101	106	41.0-142			4.85	20
2-Chlorotoluene	5.00	4.92	5.15	98.4	103	76.0-123			4.57	20
4-Chlorotoluene	5.00	5.12	5.36	102	107	75.0-122			4.58	20
1,2-Dibromo-3-Chloropropane	5.00	5.18	5.11	104	102	58.0-134			1.36	20
1,2-Dibromoethane	5.00	5.32	5.42	106	108	80.0-122			1.86	20
Dibromomethane	5.00	5.35	5.60	107	112	80.0-120			4.57	20
1,2-Dichlorobenzene	5.00	5.02	5.11	100	102	79.0-121			1.78	20
1,3-Dichlorobenzene	5.00	4.98	5.35	99.6	107	79.0-120			7.16	20
1,4-Dichlorobenzene	5.00	5.04	5.23	101	105	79.0-120			3.70	20
trans-1,4-Dichloro-2-butene	5.00	5.05	5.28	101	106	33.0-144			4.45	20
Dichlorodifluoromethane	5.00	5.60	5.56	112	111	51.0-149			0.717	20
1,1-Dichloroethane	5.00	4.81	5.24	96.2	105	70.0-126			8.56	20
1,2-Dichloroethane	5.00	4.98	5.24	99.6	105	70.0-128			5.09	20
1,1-Dichloroethene	5.00	4.45	4.71	89.0	94.2	71.0-124			5.68	20
cis-1,2-Dichloroethene	5.00	5.29	5.70	106	114	73.0-120			7.46	20
trans-1,2-Dichloroethene	5.00	5.14	5.38	103	108	73.0-120			4.56	20
1,2-Dichloropropane	5.00	4.83	5.20	96.6	104	77.0-125			7.38	20
1,1-Dichloropropene	5.00	5.17	5.61	103	112	74.0-126			8.16	20
1,3-Dichloropropane	5.00	5.18	5.40	104	108	80.0-120			4.16	20
cis-1,3-Dichloropropene	5.00	5.25	5.62	105	112	80.0-123			6.81	20
trans-1,3-Dichloropropene	5.00	5.16	5.51	103	110	78.0-124			6.56	20
2,2-Dichloropropane	5.00	5.45	5.97	109	119	58.0-130			9.11	20
Di-isopropyl ether	5.00	4.73	4.96	94.6	99.2	58.0-138			4.75	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) R3526316-1 05/04/20 19:42 • (LCSD) R3526316-2 05/04/20 20:01

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 %
Ethylbenzene	5.00	5.07	5.64	101	113	79.0-123			10.6	20
Hexachloro-1,3-butadiene	5.00	4.81	5.28	96.2	106	54.0-138			9.32	20
2-Hexanone	25.0	29.0	30.5	116	122	67.0-149			5.04	20
n-Hexane	5.00	4.71	5.04	94.2	101	57.0-133			6.77	20
Iodomethane	25.0	20.2	21.4	80.8	85.6	33.0-147			5.77	26
Isopropylbenzene	5.00	5.16	5.58	103	112	76.0-127			7.82	20
p-Isopropyltoluene	5.00	5.43	5.75	109	115	76.0-125			5.72	20
2-Butanone (MEK)	25.0	36.2	36.5	145	146	44.0-160			0.825	20
Methylene Chloride	5.00	4.09	4.30	81.8	86.0	67.0-120			5.01	20
4-Methyl-2-pentanone (MIBK)	25.0	26.1	27.3	104	109	68.0-142			4.49	20
Methyl tert-butyl ether	5.00	4.54	4.81	90.8	96.2	68.0-125			5.78	20
Naphthalene	5.00	4.25	4.51	85.0	90.2	54.0-135			5.94	20
n-Propylbenzene	5.00	4.81	5.20	96.2	104	77.0-124			7.79	20
Styrene	5.00	5.34	5.54	107	111	73.0-130			3.68	20
1,1,1,2-Tetrachloroethane	5.00	4.85	5.13	97.0	103	75.0-125			5.61	20
1,1,2,2-Tetrachloroethane	5.00	4.81	4.93	96.2	98.6	65.0-130			2.46	20
Tetrachloroethene	5.00	5.32	5.62	106	112	72.0-132			5.48	20
Toluene	5.00	4.70	5.04	94.0	101	79.0-120			6.98	20
1,1,2-Trichlorotrifluoroethane	5.00	4.79	4.80	95.8	96.0	69.0-132			0.209	20
1,2,3-Trichlorobenzene	5.00	4.40	4.57	88.0	91.4	50.0-138			3.79	20
1,2,4-Trichlorobenzene	5.00	4.51	4.78	90.2	95.6	57.0-137			5.81	20
1,1,1-Trichloroethane	5.00	5.20	5.47	104	109	73.0-124			5.06	20
1,1,2-Trichloroethane	5.00	5.39	5.46	108	109	80.0-120			1.29	20
Trichloroethene	5.00	4.99	5.46	99.8	109	78.0-124			9.00	20
Trichlorofluoromethane	5.00	5.75	6.03	115	121	59.0-147			4.75	20
1,2,3-Trichloropropane	5.00	5.21	5.31	104	106	73.0-130			1.90	20
1,2,3-Trimethylbenzene	5.00	4.82	5.14	96.4	103	77.0-120			6.43	20
1,2,4-Trimethylbenzene	5.00	4.92	5.33	98.4	107	76.0-121			8.00	20
1,3,5-Trimethylbenzene	5.00	4.90	5.23	98.0	105	76.0-122			6.52	20
Vinyl acetate	25.0	35.6	37.8	142	151	11.0-160			5.99	20
Vinyl chloride	5.00	5.13	5.61	103	112	67.0-131			8.94	20
Xylenes, Total	15.0	14.9	16.1	99.3	107	79.0-123			7.74	20
(S) Toluene-d8				106	104	80.0-120				
(S) 4-Bromofluorobenzene				105	107	77.0-126				
(S) 1,2-Dichloroethane-d4				114	114	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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.

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
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.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
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}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

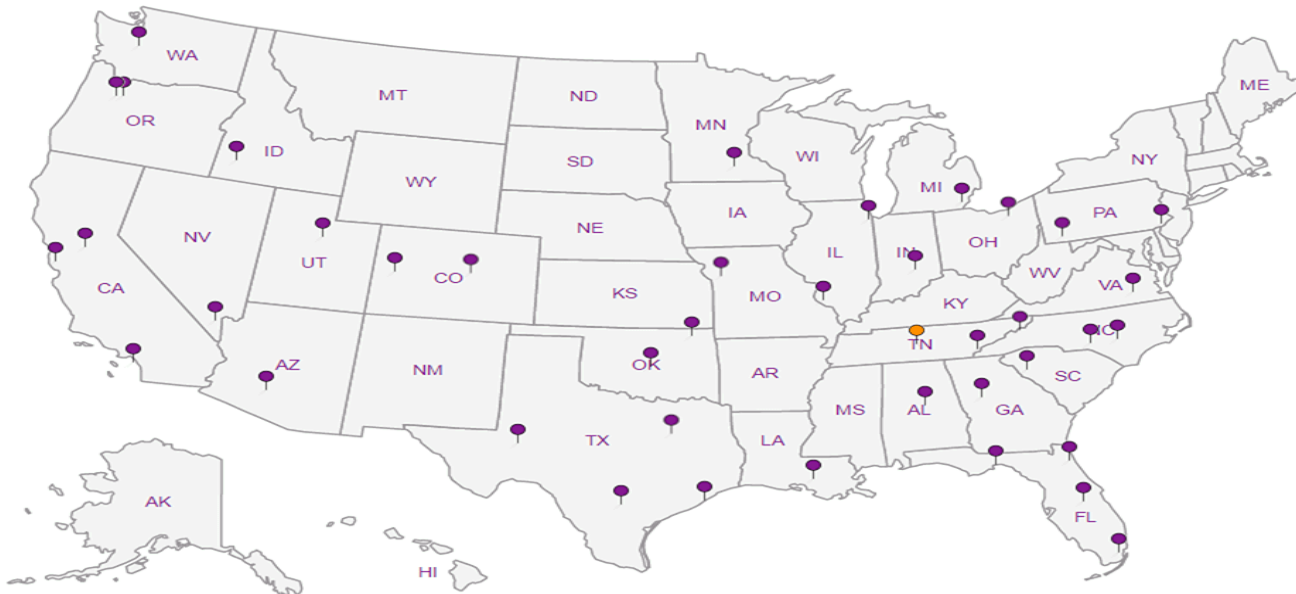
Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



Report to:
Brian O'Neal/Bill Haldeman

Email To:
boneal@pesenv.com;bhaldeman@pesenv.com;sm

Project Description: American Linen

City/State Collected:

Please Circle:
PT MT CT ET

Phone: 206-529-3980
Fax: 206-529-3985

Client Project #
1413.001.02.501E

Lab Project #
PESENVSWA-ALP

Collected by (print):
Hannah Cohen

Site/Facility ID #
American Linen

P.O. #

Collected by (signature):
Hannah Cohen

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

Immediately
Packed on Ice N Y

No. of
Cnts

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts	* NO3, SO4, Cl 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlHDPE-HCl L 2	Total Fe Mn 6020 250mlHDPE-HNO3 L 2	VOCs LL 8260D 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-146-043020	Grab	GW	45	4/30/20	955	12	X	X	X	X	X	X	X		< 91
MW-154-043020		GW	34		1135	12	X	X	X	X	X	X	X		< 92
MW-153-043020		GW	125		1345	12	X	X	X	X	X	X	X		< 93
MW-148-043020		GW	75		1510	12	X	X	X	X	X	X	X		< 94
		GW													
		GW													
		GW													
		GW													
		GW													
		GW													

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

Remarks: *Nitrate has a 48 hour holding time.
pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
UPS FedEx Courier
Tracking # 1749 9997 2260

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)
Hannah Cohen
Date: 4/30/20
Time: 1630

Received by: (Signature)
L. Webster
Date: 5/1/20
Time: 08:45

Trip Blank Received: Yes/No
HCL/MeOH
TBR
Temp: 3.5 + 1 = 3.6 47

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Hold:

Condition: NCF / OK

Relinquished by: (Signature)

Received for lab by: (Signature)

Hold:

Condition: NCF / OK

May 11, 2020

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: L1214418
Samples Received: 05/02/2020
Project Number: 1413.001.02.501E
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

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.





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

SAMPLE SUMMARY

MW-168-050120 L1214418-01 GW

			Collected by BH/HC	Collected date/time	Received date/time	
				05/01/20 10:55	05/02/20 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469873	1	05/04/20 02:03	05/04/20 02:03	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1469630	1	05/02/20 16:29	05/02/20 16:29	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1471459	1	05/07/20 04:30	05/07/20 04:30	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1472548	1	05/08/20 13:11	05/08/20 16:35	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1472292	1	05/08/20 06:14	05/08/20 06:14	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1472631	1	05/08/20 13:25	05/08/20 13:25	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1471403	1	05/06/20 15:37	05/06/20 15:37	JCP	Mt. Juliet, TN

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

MW-176-050120 L1214418-02 GW

			Collected by BH/HC	Collected date/time	Received date/time	
				05/01/20 10:55	05/02/20 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469873	1	05/04/20 02:27	05/04/20 02:27	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1469630	1	05/02/20 16:44	05/02/20 16:44	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472044	1	05/08/20 00:23	05/08/20 00:23	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1472548	1	05/08/20 13:11	05/08/20 16:38	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1472292	1	05/08/20 06:36	05/08/20 06:36	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1472631	1	05/08/20 13:28	05/08/20 13:28	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1471403	1	05/06/20 15:58	05/06/20 15:58	JCP	Mt. Juliet, TN

MW-167-050120 L1214418-03 GW

			Collected by BH/HC	Collected date/time	Received date/time	
				05/01/20 12:20	05/02/20 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469873	1	05/04/20 02:37	05/04/20 02:37	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1469630	1	05/02/20 16:58	05/02/20 16:58	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472044	1	05/08/20 00:39	05/08/20 00:39	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1472548	1	05/08/20 13:11	05/08/20 16:41	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1472292	1	05/08/20 06:58	05/08/20 06:58	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1472631	1	05/08/20 13:30	05/08/20 13:30	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1471403	1	05/06/20 16:18	05/06/20 16:18	JCP	Mt. Juliet, TN

MW-175-050120 L1214418-04 GW

			Collected by BH/HC	Collected date/time	Received date/time	
				05/01/20 12:25	05/02/20 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469873	1	05/04/20 02:48	05/04/20 02:48	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1469630	1	05/02/20 17:56	05/02/20 17:56	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472044	1	05/08/20 00:54	05/08/20 00:54	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1472548	1	05/08/20 13:11	05/08/20 16:58	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1472292	1	05/08/20 07:20	05/08/20 07:20	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1472631	1	05/08/20 13:33	05/08/20 13:33	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1471403	1	05/06/20 16:39	05/06/20 16:39	JCP	Mt. Juliet, TN

MW-335-050120 L1214418-05 GW

			Collected by BH/HC	Collected date/time	Received date/time	
				05/01/20 13:00	05/02/20 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469873	1	05/04/20 02:59	05/04/20 02:59	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1469630	1	05/02/20 18:24	05/02/20 18:24	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472044	1	05/08/20 01:08	05/08/20 01:08	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1472548	1	05/08/20 13:11	05/08/20 17:01	JPD	Mt. Juliet, TN

SAMPLE SUMMARY



MW-335-050120 L1214418-05 GW

Collected by
BH/HC
Collected date/time
05/01/20 13:00
Received date/time
05/02/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method RSK175	WG1472631	1	05/08/20 13:35	05/08/20 13:35	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1471403	1	05/06/20 16:59	05/06/20 16:59	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1473988	10	05/11/20 14:43	05/11/20 14:43	BMB	Mt. Juliet, TN

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

MW-165-050120 L1214418-06 GW

Collected by
BH/HC
Collected date/time
05/01/20 13:35
Received date/time
05/02/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469873	1	05/04/20 03:08	05/04/20 03:08	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1469630	1	05/02/20 18:39	05/02/20 18:39	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472044	2	05/08/20 01:59	05/08/20 01:59	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1472548	1	05/08/20 13:11	05/08/20 17:05	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1472292	1	05/08/20 07:42	05/08/20 07:42	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1472631	1	05/08/20 13:37	05/08/20 13:37	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1471403	1	05/06/20 17:20	05/06/20 17:20	JCP	Mt. Juliet, TN

MW-174-050120 L1214418-07 GW

Collected by
BH/HC
Collected date/time
05/01/20 13:50
Received date/time
05/02/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469873	1	05/04/20 03:46	05/04/20 03:46	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1469630	1	05/02/20 19:08	05/02/20 19:08	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472044	1	05/08/20 03:15	05/08/20 03:15	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1472548	1	05/08/20 13:11	05/08/20 17:08	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1472292	1	05/08/20 08:04	05/08/20 08:04	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1472631	1	05/08/20 13:43	05/08/20 13:43	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1473785	10	05/11/20 10:53	05/11/20 10:53	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1471403	1	05/06/20 17:40	05/06/20 17:40	JCP	Mt. Juliet, TN

MW-166-050120 L1214418-08 GW

Collected by
BH/HC
Collected date/time
05/01/20 14:40
Received date/time
05/02/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469873	1	05/04/20 03:56	05/04/20 03:56	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1469630	1	05/02/20 19:22	05/02/20 19:22	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472044	2	05/08/20 03:52	05/08/20 03:52	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1472548	1	05/08/20 13:11	05/08/20 17:11	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1472292	1	05/08/20 08:26	05/08/20 08:26	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1472631	1	05/08/20 13:47	05/08/20 13:47	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1473785	10	05/11/20 10:56	05/11/20 10:56	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1471403	1	05/06/20 18:00	05/06/20 18:00	JCP	Mt. Juliet, TN

MW-173-050120 L1214418-09 GW

Collected by
BH/HC
Collected date/time
05/01/20 15:05
Received date/time
05/02/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1469873	1	05/04/20 04:07	05/04/20 04:07	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1469630	1	05/02/20 19:51	05/02/20 19:51	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472044	1	05/08/20 04:13	05/08/20 04:13	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1472548	1	05/08/20 13:11	05/08/20 17:14	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1472903	1	05/08/20 22:15	05/08/20 22:15	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1472631	1	05/08/20 13:49	05/08/20 13:49	DAH	Mt. Juliet, TN

SAMPLE SUMMARY

MW-173-050120 L1214418-09 GW

Collected by
BH/HC Collected date/time
05/01/20 15:05 Received date/time
05/02/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method RSK175	WG1473785	10	05/11/20 10:59	05/11/20 10:59	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1471403	1	05/06/20 18:21	05/06/20 18:21	JCP	Mt. Juliet, TN

1
Cp

2
Tc

3
Ss

4
Cn

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Sr

6
Qc

7
Gl

8
Al

9
Sc

TB-050120 L1214418-10 GW

Collected by
BH/HC Collected date/time
05/01/20 16:30 Received date/time
05/02/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1472903	1	05/08/20 16:01	05/08/20 16:01	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1471403	1	05/06/20 12:54	05/06/20 12:54	JHH	Mt. Juliet, TN



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	223000		8450	20000	1	05/04/2020 02:03	WG1469873

Sample Narrative:

L1214418-01 WG1469873: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	12300		379	1000	1	05/02/2020 16:29	WG1469630
Nitrate	U		48.0	100	1	05/02/2020 16:29	WG1469630
Sulfate	11300		594	5000	1	05/02/2020 16:29	WG1469630

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)	3460		102	1000	1	05/07/2020 04:30	WG1471459

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2550		48.9	100	1	05/08/2020 16:35	WG1472548
Manganese	276		1.32	5.00	1	05/08/2020 16:35	WG1472548

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	76.0	<u>B</u>	31.6	100	1	05/08/2020 06:14	WG1472292
(S) a,a,a-Trifluorotoluene(FID)	93.5			78.0-120		05/08/2020 06:14	WG1472292

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	598		0.287	0.678	1	05/08/2020 13:25	WG1472631
Ethane	U		0.296	1.29	1	05/08/2020 13:25	WG1472631
Ethene	U		0.422	1.27	1	05/08/2020 13:25	WG1472631

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		11.3	25.0	1	05/06/2020 15:37	WG1471403
Acrylonitrile	U		0.671	5.00	1	05/06/2020 15:37	WG1471403
Benzene	0.104	<u>J</u>	0.0941	0.500	1	05/06/2020 15:37	WG1471403
Bromobenzene	U		0.118	0.500	1	05/06/2020 15:37	WG1471403
Bromodichloromethane	U		0.136	0.500	1	05/06/2020 15:37	WG1471403
Bromochloromethane	U		0.128	0.500	1	05/06/2020 15:37	WG1471403
Bromoform	U		0.129	0.500	1	05/06/2020 15:37	WG1471403
Bromomethane	U		0.605	2.50	1	05/06/2020 15:37	WG1471403
n-Butylbenzene	U		0.157	0.500	1	05/06/2020 15:37	WG1471403
sec-Butylbenzene	U		0.125	0.500	1	05/06/2020 15:37	WG1471403
tert-Butylbenzene	U		0.127	0.500	1	05/06/2020 15:37	WG1471403
Carbon disulfide	0.244	<u>J</u>	0.0962	0.500	1	05/06/2020 15:37	WG1471403
Carbon tetrachloride	U		0.128	0.500	1	05/06/2020 15:37	WG1471403

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	
Chlorobenzene	U		0.117	0.500	1	05/06/2020 15:37	WG1471403
Chlorodibromomethane	U		0.140	0.500	1	05/06/2020 15:37	WG1471403
Chloroethane	U		0.192	2.50	1	05/06/2020 15:37	WG1471403
Chloroform	U		0.111	0.500	1	05/06/2020 15:37	WG1471403
Chloromethane	U		0.960	1.25	1	05/06/2020 15:37	WG1471403
2-Chlorotoluene	U		0.106	0.500	1	05/06/2020 15:37	WG1471403
4-Chlorotoluene	U		0.114	0.500	1	05/06/2020 15:37	WG1471403
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/06/2020 15:37	WG1471403
1,2-Dibromoethane	U		0.126	0.500	1	05/06/2020 15:37	WG1471403
Dibromomethane	U		0.122	0.500	1	05/06/2020 15:37	WG1471403
1,2-Dichlorobenzene	U		0.107	0.500	1	05/06/2020 15:37	WG1471403
1,3-Dichlorobenzene	U		0.299	0.500	1	05/06/2020 15:37	WG1471403
1,4-Dichlorobenzene	U		0.120	0.500	1	05/06/2020 15:37	WG1471403
Dichlorodifluoromethane	U		0.374	2.50	1	05/06/2020 15:37	WG1471403
1,1-Dichloroethane	U		0.100	0.500	1	05/06/2020 15:37	WG1471403
1,2-Dichloroethane	U		0.0819	0.500	1	05/06/2020 15:37	WG1471403
1,1-Dichloroethene	U		0.188	0.500	1	05/06/2020 15:37	WG1471403
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/06/2020 15:37	WG1471403
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/06/2020 15:37	WG1471403
1,2-Dichloropropane	U		0.149	0.500	1	05/06/2020 15:37	WG1471403
1,1-Dichloropropene	U		0.142	0.500	1	05/06/2020 15:37	WG1471403
1,3-Dichloropropane	U		0.109	1.00	1	05/06/2020 15:37	WG1471403
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/06/2020 15:37	WG1471403
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/06/2020 15:37	WG1471403
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/06/2020 15:37	WG1471403
2,2-Dichloropropane	U		0.161	0.500	1	05/06/2020 15:37	WG1471403
Di-isopropyl ether	U		0.105	0.500	1	05/06/2020 15:37	WG1471403
Ethylbenzene	0.161	J	0.137	0.500	1	05/06/2020 15:37	WG1471403
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/06/2020 15:37	WG1471403
2-Hexanone	U		0.787	5.00	1	05/06/2020 15:37	WG1471403
n-Hexane	U		0.749	5.00	1	05/06/2020 15:37	WG1471403
Iodomethane	U		0.554	5.00	1	05/06/2020 15:37	WG1471403
Isopropylbenzene	U		0.105	0.500	1	05/06/2020 15:37	WG1471403
p-Isopropyltoluene	U		0.120	0.500	1	05/06/2020 15:37	WG1471403
2-Butanone (MEK)	U		1.19	5.00	1	05/06/2020 15:37	WG1471403
Methylene Chloride	U		0.430	2.50	1	05/06/2020 15:37	WG1471403
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/06/2020 15:37	WG1471403
Methyl tert-butyl ether	U		0.101	0.500	1	05/06/2020 15:37	WG1471403
Naphthalene	0.339	JJO	0.174	2.50	1	05/06/2020 15:37	WG1471403
n-Propylbenzene	U		0.0993	0.500	1	05/06/2020 15:37	WG1471403
Styrene	U		0.118	0.500	1	05/06/2020 15:37	WG1471403
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/06/2020 15:37	WG1471403
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/06/2020 15:37	WG1471403
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/06/2020 15:37	WG1471403
Tetrachloroethene	U		0.300	0.500	1	05/06/2020 15:37	WG1471403
Toluene	0.827		0.278	0.500	1	05/06/2020 15:37	WG1471403
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/06/2020 15:37	WG1471403
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/06/2020 15:37	WG1471403
1,1,1-Trichloroethane	U		0.149	0.500	1	05/06/2020 15:37	WG1471403
1,1,2-Trichloroethane	U		0.158	0.500	1	05/06/2020 15:37	WG1471403
Trichloroethene	U		0.190	0.500	1	05/06/2020 15:37	WG1471403
Trichlorofluoromethane	U		0.160	2.50	1	05/06/2020 15:37	WG1471403
1,2,3-Trichloropropane	U		0.237	2.50	1	05/06/2020 15:37	WG1471403
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/06/2020 15:37	WG1471403
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 15:37	WG1471403
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 15:37	WG1471403

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
Vinyl acetate	U		0.692	5.00	1	05/06/2020 15:37	WG1471403
Vinyl chloride	U		0.234	0.500	1	05/06/2020 15:37	WG1471403
Xylenes, Total	0.712	J	0.174	1.50	1	05/06/2020 15:37	WG1471403
<i>(S) Toluene-d8</i>	110			80.0-120		05/06/2020 15:37	WG1471403
<i>(S) 4-Bromofluorobenzene</i>	104			77.0-126		05/06/2020 15:37	WG1471403
<i>(S) 1,2-Dichloroethane-d4</i>	93.8			70.0-130		05/06/2020 15:37	WG1471403

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	05/04/2020 02:27	WG1469873

Sample Narrative:

L1214418-02 WG1469873: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	11300		379	1000	1	05/02/2020 16:44	WG1469630
Nitrate	U		48.0	100	1	05/02/2020 16:44	WG1469630
Sulfate	13800		594	5000	1	05/02/2020 16:44	WG1469630

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)	1790	<u>B</u>	102	1000	1	05/08/2020 00:23	WG1472044

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	802		48.9	100	1	05/08/2020 16:38	WG1472548
Manganese	310		1.32	5.00	1	05/08/2020 16:38	WG1472548

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	83.5	<u>B, J</u>	31.6	100	1	05/08/2020 06:36	WG1472292
(S) a,a,a-Trifluorotoluene(FID)	93.9			78.0-120		05/08/2020 06:36	WG1472292

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	28.8		0.287	0.678	1	05/08/2020 13:28	WG1472631
Ethane	U		0.296	1.29	1	05/08/2020 13:28	WG1472631
Ethene	U		0.422	1.27	1	05/08/2020 13:28	WG1472631

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		11.3	25.0	1	05/06/2020 15:58	WG1471403
Acrylonitrile	U		0.671	5.00	1	05/06/2020 15:58	WG1471403
Benzene	U		0.0941	0.500	1	05/06/2020 15:58	WG1471403
Bromobenzene	U		0.118	0.500	1	05/06/2020 15:58	WG1471403
Bromodichloromethane	U		0.136	0.500	1	05/06/2020 15:58	WG1471403
Bromochloromethane	U		0.128	0.500	1	05/06/2020 15:58	WG1471403
Bromoform	U		0.129	0.500	1	05/06/2020 15:58	WG1471403
Bromomethane	U		0.605	2.50	1	05/06/2020 15:58	WG1471403
n-Butylbenzene	U		0.157	0.500	1	05/06/2020 15:58	WG1471403
sec-Butylbenzene	U		0.125	0.500	1	05/06/2020 15:58	WG1471403
tert-Butylbenzene	U		0.127	0.500	1	05/06/2020 15:58	WG1471403
Carbon disulfide	U		0.0962	0.500	1	05/06/2020 15:58	WG1471403
Carbon tetrachloride	U		0.128	0.500	1	05/06/2020 15:58	WG1471403

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	
Chlorobenzene	U		0.117	0.500	1	05/06/2020 15:58	WG1471403
Chlorodibromomethane	U		0.140	0.500	1	05/06/2020 15:58	WG1471403
Chloroethane	U		0.192	2.50	1	05/06/2020 15:58	WG1471403
Chloroform	U		0.111	0.500	1	05/06/2020 15:58	WG1471403
Chloromethane	U		0.960	1.25	1	05/06/2020 15:58	WG1471403
2-Chlorotoluene	U		0.106	0.500	1	05/06/2020 15:58	WG1471403
4-Chlorotoluene	U		0.114	0.500	1	05/06/2020 15:58	WG1471403
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/06/2020 15:58	WG1471403
1,2-Dibromoethane	U		0.126	0.500	1	05/06/2020 15:58	WG1471403
Dibromomethane	U		0.122	0.500	1	05/06/2020 15:58	WG1471403
1,2-Dichlorobenzene	U		0.107	0.500	1	05/06/2020 15:58	WG1471403
1,3-Dichlorobenzene	U		0.299	0.500	1	05/06/2020 15:58	WG1471403
1,4-Dichlorobenzene	U		0.120	0.500	1	05/06/2020 15:58	WG1471403
Dichlorodifluoromethane	U		0.374	2.50	1	05/06/2020 15:58	WG1471403
1,1-Dichloroethane	U		0.100	0.500	1	05/06/2020 15:58	WG1471403
1,2-Dichloroethane	U		0.0819	0.500	1	05/06/2020 15:58	WG1471403
1,1-Dichloroethene	U		0.188	0.500	1	05/06/2020 15:58	WG1471403
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/06/2020 15:58	WG1471403
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/06/2020 15:58	WG1471403
1,2-Dichloropropane	U		0.149	0.500	1	05/06/2020 15:58	WG1471403
1,1-Dichloropropene	U		0.142	0.500	1	05/06/2020 15:58	WG1471403
1,3-Dichloropropane	U		0.109	1.00	1	05/06/2020 15:58	WG1471403
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/06/2020 15:58	WG1471403
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/06/2020 15:58	WG1471403
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/06/2020 15:58	WG1471403
2,2-Dichloropropane	U		0.161	0.500	1	05/06/2020 15:58	WG1471403
Di-isopropyl ether	U		0.105	0.500	1	05/06/2020 15:58	WG1471403
Ethylbenzene	U		0.137	0.500	1	05/06/2020 15:58	WG1471403
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/06/2020 15:58	WG1471403
2-Hexanone	U		0.787	5.00	1	05/06/2020 15:58	WG1471403
n-Hexane	U		0.749	5.00	1	05/06/2020 15:58	WG1471403
Iodomethane	U		0.554	5.00	1	05/06/2020 15:58	WG1471403
Isopropylbenzene	U		0.105	0.500	1	05/06/2020 15:58	WG1471403
p-Isopropyltoluene	U		0.120	0.500	1	05/06/2020 15:58	WG1471403
2-Butanone (MEK)	U		1.19	5.00	1	05/06/2020 15:58	WG1471403
Methylene Chloride	U		0.430	2.50	1	05/06/2020 15:58	WG1471403
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/06/2020 15:58	WG1471403
Methyl tert-butyl ether	U		0.101	0.500	1	05/06/2020 15:58	WG1471403
Naphthalene	U	<u>JO</u>	0.174	2.50	1	05/06/2020 15:58	WG1471403
n-Propylbenzene	U		0.0993	0.500	1	05/06/2020 15:58	WG1471403
Styrene	U		0.118	0.500	1	05/06/2020 15:58	WG1471403
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/06/2020 15:58	WG1471403
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/06/2020 15:58	WG1471403
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/06/2020 15:58	WG1471403
Tetrachloroethene	U		0.300	0.500	1	05/06/2020 15:58	WG1471403
Toluene	0.831		0.278	0.500	1	05/06/2020 15:58	WG1471403
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/06/2020 15:58	WG1471403
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/06/2020 15:58	WG1471403
1,1,1-Trichloroethane	U		0.149	0.500	1	05/06/2020 15:58	WG1471403
1,1,2-Trichloroethane	U		0.158	0.500	1	05/06/2020 15:58	WG1471403
Trichloroethene	U		0.190	0.500	1	05/06/2020 15:58	WG1471403
Trichlorofluoromethane	U		0.160	2.50	1	05/06/2020 15:58	WG1471403
1,2,3-Trichloropropane	U		0.237	2.50	1	05/06/2020 15:58	WG1471403
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/06/2020 15:58	WG1471403
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 15:58	WG1471403
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 15:58	WG1471403

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
Vinyl acetate	U		0.692	5.00	1	05/06/2020 15:58	WG1471403
Vinyl chloride	U		0.234	0.500	1	05/06/2020 15:58	WG1471403
Xylenes, Total	0.684	J	0.174	1.50	1	05/06/2020 15:58	WG1471403
(S) Toluene-d8	106			80.0-120		05/06/2020 15:58	WG1471403
(S) 4-Bromofluorobenzene	100			77.0-126		05/06/2020 15:58	WG1471403
(S) 1,2-Dichloroethane-d4	95.9			70.0-130		05/06/2020 15:58	WG1471403

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	366000		8450	20000	1	05/04/2020 02:37	WG1469873

Sample Narrative:

L1214418-03 WG1469873: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	38700		379	1000	1	05/02/2020 16:58	WG1469630
Nitrate	U		48.0	100	1	05/02/2020 16:58	WG1469630
Sulfate	U		594	5000	1	05/02/2020 16:58	WG1469630

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)	9210		102	1000	1	05/08/2020 00:39	WG1472044

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	717		48.9	100	1	05/08/2020 16:41	WG1472548
Manganese	187		1.32	5.00	1	05/08/2020 16:41	WG1472548

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	68.3	<u>B</u>	31.6	100	1	05/08/2020 06:58	WG1472292
(S) a,a,a-Trifluorotoluene(FID)	93.5			78.0-120		05/08/2020 06:58	WG1472292

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	5780		0.287	0.678	1	05/08/2020 13:30	WG1472631
Ethane	62.9		0.296	1.29	1	05/08/2020 13:30	WG1472631
Ethene	U		0.422	1.27	1	05/08/2020 13:30	WG1472631

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		11.3	25.0	1	05/06/2020 16:18	WG1471403
Acrylonitrile	U		0.671	5.00	1	05/06/2020 16:18	WG1471403
Benzene	0.0967	<u>J</u>	0.0941	0.500	1	05/06/2020 16:18	WG1471403
Bromobenzene	U		0.118	0.500	1	05/06/2020 16:18	WG1471403
Bromodichloromethane	U		0.136	0.500	1	05/06/2020 16:18	WG1471403
Bromochloromethane	U		0.128	0.500	1	05/06/2020 16:18	WG1471403
Bromoform	U		0.129	0.500	1	05/06/2020 16:18	WG1471403
Bromomethane	U		0.605	2.50	1	05/06/2020 16:18	WG1471403
n-Butylbenzene	U		0.157	0.500	1	05/06/2020 16:18	WG1471403
sec-Butylbenzene	U		0.125	0.500	1	05/06/2020 16:18	WG1471403
tert-Butylbenzene	U		0.127	0.500	1	05/06/2020 16:18	WG1471403
Carbon disulfide	0.738		0.0962	0.500	1	05/06/2020 16:18	WG1471403
Carbon tetrachloride	U		0.128	0.500	1	05/06/2020 16:18	WG1471403

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
Chlorobenzene	U		0.117	0.500	1	05/06/2020 16:18	WG1471403
Chlorodibromomethane	U		0.140	0.500	1	05/06/2020 16:18	WG1471403
Chloroethane	U		0.192	2.50	1	05/06/2020 16:18	WG1471403
Chloroform	U		0.111	0.500	1	05/06/2020 16:18	WG1471403
Chloromethane	U		0.960	1.25	1	05/06/2020 16:18	WG1471403
2-Chlorotoluene	U		0.106	0.500	1	05/06/2020 16:18	WG1471403
4-Chlorotoluene	U		0.114	0.500	1	05/06/2020 16:18	WG1471403
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/06/2020 16:18	WG1471403
1,2-Dibromoethane	U		0.126	0.500	1	05/06/2020 16:18	WG1471403
Dibromomethane	U		0.122	0.500	1	05/06/2020 16:18	WG1471403
1,2-Dichlorobenzene	U		0.107	0.500	1	05/06/2020 16:18	WG1471403
1,3-Dichlorobenzene	U		0.299	0.500	1	05/06/2020 16:18	WG1471403
1,4-Dichlorobenzene	U		0.120	0.500	1	05/06/2020 16:18	WG1471403
Dichlorodifluoromethane	U		0.374	2.50	1	05/06/2020 16:18	WG1471403
1,1-Dichloroethane	U		0.100	0.500	1	05/06/2020 16:18	WG1471403
1,2-Dichloroethane	U		0.0819	0.500	1	05/06/2020 16:18	WG1471403
1,1-Dichloroethene	U		0.188	0.500	1	05/06/2020 16:18	WG1471403
cis-1,2-Dichloroethene	0.715		0.126	0.500	1	05/06/2020 16:18	WG1471403
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/06/2020 16:18	WG1471403
1,2-Dichloropropane	U		0.149	0.500	1	05/06/2020 16:18	WG1471403
1,1-Dichloropropene	U		0.142	0.500	1	05/06/2020 16:18	WG1471403
1,3-Dichloropropane	U		0.109	1.00	1	05/06/2020 16:18	WG1471403
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/06/2020 16:18	WG1471403
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/06/2020 16:18	WG1471403
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/06/2020 16:18	WG1471403
2,2-Dichloropropane	U		0.161	0.500	1	05/06/2020 16:18	WG1471403
Di-isopropyl ether	U		0.105	0.500	1	05/06/2020 16:18	WG1471403
Ethylbenzene	U		0.137	0.500	1	05/06/2020 16:18	WG1471403
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/06/2020 16:18	WG1471403
2-Hexanone	U		0.787	5.00	1	05/06/2020 16:18	WG1471403
n-Hexane	U		0.749	5.00	1	05/06/2020 16:18	WG1471403
Iodomethane	U		0.554	5.00	1	05/06/2020 16:18	WG1471403
Isopropylbenzene	U		0.105	0.500	1	05/06/2020 16:18	WG1471403
p-Isopropyltoluene	U		0.120	0.500	1	05/06/2020 16:18	WG1471403
2-Butanone (MEK)	U		1.19	5.00	1	05/06/2020 16:18	WG1471403
Methylene Chloride	U		0.430	2.50	1	05/06/2020 16:18	WG1471403
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/06/2020 16:18	WG1471403
Methyl tert-butyl ether	U		0.101	0.500	1	05/06/2020 16:18	WG1471403
Naphthalene	U	<u>JO</u>	0.174	2.50	1	05/06/2020 16:18	WG1471403
n-Propylbenzene	U		0.0993	0.500	1	05/06/2020 16:18	WG1471403
Styrene	U		0.118	0.500	1	05/06/2020 16:18	WG1471403
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/06/2020 16:18	WG1471403
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/06/2020 16:18	WG1471403
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/06/2020 16:18	WG1471403
Tetrachloroethene	U		0.300	0.500	1	05/06/2020 16:18	WG1471403
Toluene	0.693		0.278	0.500	1	05/06/2020 16:18	WG1471403
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/06/2020 16:18	WG1471403
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/06/2020 16:18	WG1471403
1,1,1-Trichloroethane	U		0.149	0.500	1	05/06/2020 16:18	WG1471403
1,1,2-Trichloroethane	U		0.158	0.500	1	05/06/2020 16:18	WG1471403
Trichloroethene	U		0.190	0.500	1	05/06/2020 16:18	WG1471403
Trichlorofluoromethane	U		0.160	2.50	1	05/06/2020 16:18	WG1471403
1,2,3-Trichloropropane	U		0.237	2.50	1	05/06/2020 16:18	WG1471403
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/06/2020 16:18	WG1471403
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 16:18	WG1471403
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 16:18	WG1471403

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
Vinyl acetate	U		0.692	5.00	1	05/06/2020 16:18	WG1471403
Vinyl chloride	0.641		0.234	0.500	1	05/06/2020 16:18	WG1471403
Xylenes, Total	0.629	J	0.174	1.50	1	05/06/2020 16:18	WG1471403
(S) Toluene-d8	110			80.0-120		05/06/2020 16:18	WG1471403
(S) 4-Bromofluorobenzene	102			77.0-126		05/06/2020 16:18	WG1471403
(S) 1,2-Dichloroethane-d4	96.6			70.0-130		05/06/2020 16:18	WG1471403

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	199000		8450	20000	1	05/04/2020 02:48	WG1469873

Sample Narrative:

L1214418-04 WG1469873: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	16200		379	1000	1	05/02/2020 17:56	WG1469630
Nitrate	U		48.0	100	1	05/02/2020 17:56	WG1469630
Sulfate	U		594	5000	1	05/02/2020 17:56	WG1469630

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)	8710		102	1000	1	05/08/2020 00:54	WG1472044

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1400		48.9	100	1	05/08/2020 16:58	WG1472548
Manganese	53.1		1.32	5.00	1	05/08/2020 16:58	WG1472548

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	65.8	<u>B</u>	31.6	100	1	05/08/2020 07:20	WG1472292
(S) a,a,a-Trifluorotoluene(FID)	93.8			78.0-120		05/08/2020 07:20	WG1472292

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	05/08/2020 13:33	WG1472631
Ethane	U		0.296	1.29	1	05/08/2020 13:33	WG1472631
Ethene	U		0.422	1.27	1	05/08/2020 13:33	WG1472631

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		11.3	25.0	1	05/06/2020 16:39	WG1471403
Acrylonitrile	U		0.671	5.00	1	05/06/2020 16:39	WG1471403
Benzene	0.137	<u>J</u>	0.0941	0.500	1	05/06/2020 16:39	WG1471403
Bromobenzene	U		0.118	0.500	1	05/06/2020 16:39	WG1471403
Bromodichloromethane	U		0.136	0.500	1	05/06/2020 16:39	WG1471403
Bromochloromethane	U		0.128	0.500	1	05/06/2020 16:39	WG1471403
Bromoform	U		0.129	0.500	1	05/06/2020 16:39	WG1471403
Bromomethane	U		0.605	2.50	1	05/06/2020 16:39	WG1471403
n-Butylbenzene	U		0.157	0.500	1	05/06/2020 16:39	WG1471403
sec-Butylbenzene	U		0.125	0.500	1	05/06/2020 16:39	WG1471403
tert-Butylbenzene	U		0.127	0.500	1	05/06/2020 16:39	WG1471403
Carbon disulfide	0.338	<u>J</u>	0.0962	0.500	1	05/06/2020 16:39	WG1471403
Carbon tetrachloride	U		0.128	0.500	1	05/06/2020 16:39	WG1471403

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
Chlorobenzene	U		0.117	0.500	1	05/06/2020 16:39	WG1471403
Chlorodibromomethane	U		0.140	0.500	1	05/06/2020 16:39	WG1471403
Chloroethane	U		0.192	2.50	1	05/06/2020 16:39	WG1471403
Chloroform	U		0.111	0.500	1	05/06/2020 16:39	WG1471403
Chloromethane	U		0.960	1.25	1	05/06/2020 16:39	WG1471403
2-Chlorotoluene	U		0.106	0.500	1	05/06/2020 16:39	WG1471403
4-Chlorotoluene	U		0.114	0.500	1	05/06/2020 16:39	WG1471403
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/06/2020 16:39	WG1471403
1,2-Dibromoethane	U		0.126	0.500	1	05/06/2020 16:39	WG1471403
Dibromomethane	U		0.122	0.500	1	05/06/2020 16:39	WG1471403
1,2-Dichlorobenzene	U		0.107	0.500	1	05/06/2020 16:39	WG1471403
1,3-Dichlorobenzene	U		0.299	0.500	1	05/06/2020 16:39	WG1471403
1,4-Dichlorobenzene	U		0.120	0.500	1	05/06/2020 16:39	WG1471403
Dichlorodifluoromethane	U		0.374	2.50	1	05/06/2020 16:39	WG1471403
1,1-Dichloroethane	U		0.100	0.500	1	05/06/2020 16:39	WG1471403
1,2-Dichloroethane	U		0.0819	0.500	1	05/06/2020 16:39	WG1471403
1,1-Dichloroethene	U		0.188	0.500	1	05/06/2020 16:39	WG1471403
cis-1,2-Dichloroethene	0.478	IL	0.126	0.500	1	05/06/2020 16:39	WG1471403
trans-1,2-Dichloroethene	0.188	IL	0.149	0.500	1	05/06/2020 16:39	WG1471403
1,2-Dichloropropane	U		0.149	0.500	1	05/06/2020 16:39	WG1471403
1,1-Dichloropropene	U		0.142	0.500	1	05/06/2020 16:39	WG1471403
1,3-Dichloropropane	U		0.109	1.00	1	05/06/2020 16:39	WG1471403
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/06/2020 16:39	WG1471403
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/06/2020 16:39	WG1471403
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/06/2020 16:39	WG1471403
2,2-Dichloropropane	U		0.161	0.500	1	05/06/2020 16:39	WG1471403
Di-isopropyl ether	U		0.105	0.500	1	05/06/2020 16:39	WG1471403
Ethylbenzene	0.186	IL	0.137	0.500	1	05/06/2020 16:39	WG1471403
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/06/2020 16:39	WG1471403
2-Hexanone	U		0.787	5.00	1	05/06/2020 16:39	WG1471403
n-Hexane	U		0.749	5.00	1	05/06/2020 16:39	WG1471403
Iodomethane	U		0.554	5.00	1	05/06/2020 16:39	WG1471403
Isopropylbenzene	U		0.105	0.500	1	05/06/2020 16:39	WG1471403
p-Isopropyltoluene	U		0.120	0.500	1	05/06/2020 16:39	WG1471403
2-Butanone (MEK)	U		1.19	5.00	1	05/06/2020 16:39	WG1471403
Methylene Chloride	U		0.430	2.50	1	05/06/2020 16:39	WG1471403
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/06/2020 16:39	WG1471403
Methyl tert-butyl ether	U		0.101	0.500	1	05/06/2020 16:39	WG1471403
Naphthalene	U	JO	0.174	2.50	1	05/06/2020 16:39	WG1471403
n-Propylbenzene	U		0.0993	0.500	1	05/06/2020 16:39	WG1471403
Styrene	U		0.118	0.500	1	05/06/2020 16:39	WG1471403
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/06/2020 16:39	WG1471403
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/06/2020 16:39	WG1471403
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/06/2020 16:39	WG1471403
Tetrachloroethene	U		0.300	0.500	1	05/06/2020 16:39	WG1471403
Toluene	0.950		0.278	0.500	1	05/06/2020 16:39	WG1471403
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/06/2020 16:39	WG1471403
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/06/2020 16:39	WG1471403
1,1,1-Trichloroethane	U		0.149	0.500	1	05/06/2020 16:39	WG1471403
1,1,2-Trichloroethane	U		0.158	0.500	1	05/06/2020 16:39	WG1471403
Trichloroethene	U		0.190	0.500	1	05/06/2020 16:39	WG1471403
Trichlorofluoromethane	U		0.160	2.50	1	05/06/2020 16:39	WG1471403
1,2,3-Trichloropropane	U		0.237	2.50	1	05/06/2020 16:39	WG1471403
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/06/2020 16:39	WG1471403
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 16:39	WG1471403
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 16:39	WG1471403

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
Vinyl acetate	U		0.692	5.00	1	05/06/2020 16:39	WG1471403
Vinyl chloride	5.75		0.234	0.500	1	05/06/2020 16:39	WG1471403
Xylenes, Total	0.971	J	0.174	1.50	1	05/06/2020 16:39	WG1471403
<i>(S) Toluene-d8</i>	110			80.0-120		05/06/2020 16:39	WG1471403
<i>(S) 4-Bromofluorobenzene</i>	107			77.0-126		05/06/2020 16:39	WG1471403
<i>(S) 1,2-Dichloroethane-d4</i>	96.7			70.0-130		05/06/2020 16:39	WG1471403

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	293000		8450	20000	1	05/04/2020 02:59	WG1469873

Sample Narrative:

L1214418-05 WG1469873: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	17400		379	1000	1	05/02/2020 18:24	WG1469630
Nitrate	U		48.0	100	1	05/02/2020 18:24	WG1469630
Sulfate	54100		594	5000	1	05/02/2020 18:24	WG1469630

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)	2900		102	1000	1	05/08/2020 01:08	WG1472044

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1310		48.9	100	1	05/08/2020 17:01	WG1472548
Manganese	721		1.32	5.00	1	05/08/2020 17:01	WG1472548

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	73.7		0.287	0.678	1	05/08/2020 13:35	WG1472631
Ethane	U		0.296	1.29	1	05/08/2020 13:35	WG1472631
Ethene	U		0.422	1.27	1	05/08/2020 13:35	WG1472631

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		11.3	25.0	1	05/06/2020 16:59	WG1471403
Acrylonitrile	U		0.671	5.00	1	05/06/2020 16:59	WG1471403
Benzene	0.113	J	0.0941	0.500	1	05/06/2020 16:59	WG1471403
Bromobenzene	U		0.118	0.500	1	05/06/2020 16:59	WG1471403
Bromodichloromethane	U		0.136	0.500	1	05/06/2020 16:59	WG1471403
Bromochloromethane	U		0.128	0.500	1	05/06/2020 16:59	WG1471403
Bromoform	U		0.129	0.500	1	05/06/2020 16:59	WG1471403
Bromomethane	U		0.605	2.50	1	05/06/2020 16:59	WG1471403
n-Butylbenzene	U		0.157	0.500	1	05/06/2020 16:59	WG1471403
sec-Butylbenzene	U		0.125	0.500	1	05/06/2020 16:59	WG1471403
tert-Butylbenzene	U		0.127	0.500	1	05/06/2020 16:59	WG1471403
Carbon disulfide	U		0.0962	0.500	1	05/06/2020 16:59	WG1471403
Carbon tetrachloride	U		0.128	0.500	1	05/06/2020 16:59	WG1471403
Chlorobenzene	U		0.117	0.500	1	05/06/2020 16:59	WG1471403
Chlorodibromomethane	U		0.140	0.500	1	05/06/2020 16:59	WG1471403
Chloroethane	U		0.192	2.50	1	05/06/2020 16:59	WG1471403
Chloroform	U		0.111	0.500	1	05/06/2020 16:59	WG1471403
Chloromethane	U		0.960	1.25	1	05/06/2020 16:59	WG1471403
2-Chlorotoluene	U		0.106	0.500	1	05/06/2020 16:59	WG1471403
4-Chlorotoluene	U		0.114	0.500	1	05/06/2020 16:59	WG1471403

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
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/06/2020 16:59	WG1471403
1,2-Dibromoethane	U		0.126	0.500	1	05/06/2020 16:59	WG1471403
Dibromomethane	U		0.122	0.500	1	05/06/2020 16:59	WG1471403
1,2-Dichlorobenzene	U		0.107	0.500	1	05/06/2020 16:59	WG1471403
1,3-Dichlorobenzene	U		0.299	0.500	1	05/06/2020 16:59	WG1471403
1,4-Dichlorobenzene	U		0.120	0.500	1	05/06/2020 16:59	WG1471403
Dichlorodifluoromethane	U		0.374	2.50	1	05/06/2020 16:59	WG1471403
1,1-Dichloroethane	U		0.100	0.500	1	05/06/2020 16:59	WG1471403
1,2-Dichloroethane	U		0.0819	0.500	1	05/06/2020 16:59	WG1471403
1,1-Dichloroethene	0.726		0.188	0.500	1	05/06/2020 16:59	WG1471403
cis-1,2-Dichloroethene	138		0.126	0.500	1	05/06/2020 16:59	WG1471403
trans-1,2-Dichloroethene	1.11		0.149	0.500	1	05/06/2020 16:59	WG1471403
1,2-Dichloropropane	U		0.149	0.500	1	05/06/2020 16:59	WG1471403
1,1-Dichloropropene	U		0.142	0.500	1	05/06/2020 16:59	WG1471403
1,3-Dichloropropane	U		0.109	1.00	1	05/06/2020 16:59	WG1471403
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/06/2020 16:59	WG1471403
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/06/2020 16:59	WG1471403
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/06/2020 16:59	WG1471403
2,2-Dichloropropane	U		0.161	0.500	1	05/06/2020 16:59	WG1471403
Di-isopropyl ether	U		0.105	0.500	1	05/06/2020 16:59	WG1471403
Ethylbenzene	U		0.137	0.500	1	05/06/2020 16:59	WG1471403
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/06/2020 16:59	WG1471403
2-Hexanone	U		0.787	5.00	1	05/06/2020 16:59	WG1471403
n-Hexane	U		0.749	5.00	1	05/06/2020 16:59	WG1471403
Iodomethane	U		0.554	5.00	1	05/06/2020 16:59	WG1471403
Isopropylbenzene	U		0.105	0.500	1	05/06/2020 16:59	WG1471403
p-Isopropyltoluene	U		0.120	0.500	1	05/06/2020 16:59	WG1471403
2-Butanone (MEK)	U		1.19	5.00	1	05/06/2020 16:59	WG1471403
Methylene Chloride	U		0.430	2.50	1	05/06/2020 16:59	WG1471403
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/06/2020 16:59	WG1471403
Methyl tert-butyl ether	U		0.101	0.500	1	05/06/2020 16:59	WG1471403
Naphthalene	U	<u>JO</u>	0.174	2.50	1	05/06/2020 16:59	WG1471403
n-Propylbenzene	U		0.0993	0.500	1	05/06/2020 16:59	WG1471403
Styrene	U		0.118	0.500	1	05/06/2020 16:59	WG1471403
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/06/2020 16:59	WG1471403
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/06/2020 16:59	WG1471403
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/06/2020 16:59	WG1471403
Tetrachloroethene	295		3.00	5.00	10	05/11/2020 14:43	WG1473988
Toluene	U		0.278	0.500	1	05/06/2020 16:59	WG1471403
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/06/2020 16:59	WG1471403
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/06/2020 16:59	WG1471403
1,1,1-Trichloroethane	U		0.149	0.500	1	05/06/2020 16:59	WG1471403
1,1,2-Trichloroethane	U		0.158	0.500	1	05/06/2020 16:59	WG1471403
Trichloroethene	294		1.90	5.00	10	05/11/2020 14:43	WG1473988
Trichlorofluoromethane	U		0.160	2.50	1	05/06/2020 16:59	WG1471403
1,2,3-Trichloropropane	U		0.237	2.50	1	05/06/2020 16:59	WG1471403
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/06/2020 16:59	WG1471403
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 16:59	WG1471403
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 16:59	WG1471403
Vinyl acetate	U		0.692	5.00	1	05/06/2020 16:59	WG1471403
Vinyl chloride	U		0.234	0.500	1	05/06/2020 16:59	WG1471403
Xylenes, Total	U		0.174	1.50	1	05/06/2020 16:59	WG1471403
(S) Toluene-d8	109			80.0-120		05/06/2020 16:59	WG1471403
(S) Toluene-d8	107			80.0-120		05/11/2020 14:43	WG1473988
(S) 4-Bromofluorobenzene	99.6			77.0-126		05/06/2020 16:59	WG1471403
(S) 4-Bromofluorobenzene	95.6			77.0-126		05/11/2020 14:43	WG1473988

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) 1,2-Dichloroethane-d4	92.3			70.0-130		05/06/2020 16:59	WG1471403
(S) 1,2-Dichloroethane-d4	111			70.0-130		05/11/2020 14:43	WG1473988

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	1350000		8450	20000	1	05/04/2020 03:08	WG1469873

Sample Narrative:

L1214418-06 WG1469873: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	84800		379	1000	1	05/02/2020 18:39	WG1469630
Nitrate	U		48.0	100	1	05/02/2020 18:39	WG1469630
Sulfate	1720	J	594	5000	1	05/02/2020 18:39	WG1469630

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)	100000		204	2000	2	05/08/2020 01:59	WG1472044

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	50700		48.9	100	1	05/08/2020 17:05	WG1472548
Manganese	7360		1.32	5.00	1	05/08/2020 17:05	WG1472548

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	74.3	B, J	31.6	100	1	05/08/2020 07:42	WG1472292
(S) a,a,a-Trifluorotoluene(FID)	93.2			78.0-120		05/08/2020 07:42	WG1472292

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	2590		0.287	0.678	1	05/08/2020 13:37	WG1472631
Ethane	84.5		0.296	1.29	1	05/08/2020 13:37	WG1472631
Ethene	U		0.422	1.27	1	05/08/2020 13:37	WG1472631

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		11.3	25.0	1	05/06/2020 17:20	WG1471403
Acrylonitrile	U		0.671	5.00	1	05/06/2020 17:20	WG1471403
Benzene	0.162	J	0.0941	0.500	1	05/06/2020 17:20	WG1471403
Bromobenzene	U		0.118	0.500	1	05/06/2020 17:20	WG1471403
Bromodichloromethane	U		0.136	0.500	1	05/06/2020 17:20	WG1471403
Bromochloromethane	U		0.128	0.500	1	05/06/2020 17:20	WG1471403
Bromoform	U		0.129	0.500	1	05/06/2020 17:20	WG1471403
Bromomethane	U		0.605	2.50	1	05/06/2020 17:20	WG1471403
n-Butylbenzene	U		0.157	0.500	1	05/06/2020 17:20	WG1471403
sec-Butylbenzene	U		0.125	0.500	1	05/06/2020 17:20	WG1471403
tert-Butylbenzene	U		0.127	0.500	1	05/06/2020 17:20	WG1471403
Carbon disulfide	U		0.0962	0.500	1	05/06/2020 17:20	WG1471403
Carbon tetrachloride	U		0.128	0.500	1	05/06/2020 17:20	WG1471403

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
Chlorobenzene	U		0.117	0.500	1	05/06/2020 17:20	WG1471403
Chlorodibromomethane	U		0.140	0.500	1	05/06/2020 17:20	WG1471403
Chloroethane	U		0.192	2.50	1	05/06/2020 17:20	WG1471403
Chloroform	U		0.111	0.500	1	05/06/2020 17:20	WG1471403
Chloromethane	U		0.960	1.25	1	05/06/2020 17:20	WG1471403
2-Chlorotoluene	U		0.106	0.500	1	05/06/2020 17:20	WG1471403
4-Chlorotoluene	U		0.114	0.500	1	05/06/2020 17:20	WG1471403
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/06/2020 17:20	WG1471403
1,2-Dibromoethane	U		0.126	0.500	1	05/06/2020 17:20	WG1471403
Dibromomethane	U		0.122	0.500	1	05/06/2020 17:20	WG1471403
1,2-Dichlorobenzene	U		0.107	0.500	1	05/06/2020 17:20	WG1471403
1,3-Dichlorobenzene	U		0.299	0.500	1	05/06/2020 17:20	WG1471403
1,4-Dichlorobenzene	U		0.120	0.500	1	05/06/2020 17:20	WG1471403
Dichlorodifluoromethane	U		0.374	2.50	1	05/06/2020 17:20	WG1471403
1,1-Dichloroethane	U		0.100	0.500	1	05/06/2020 17:20	WG1471403
1,2-Dichloroethane	U		0.0819	0.500	1	05/06/2020 17:20	WG1471403
1,1-Dichloroethene	U		0.188	0.500	1	05/06/2020 17:20	WG1471403
cis-1,2-Dichloroethene	61.4		0.126	0.500	1	05/06/2020 17:20	WG1471403
trans-1,2-Dichloroethene	2.19		0.149	0.500	1	05/06/2020 17:20	WG1471403
1,2-Dichloropropane	U		0.149	0.500	1	05/06/2020 17:20	WG1471403
1,1-Dichloropropene	U		0.142	0.500	1	05/06/2020 17:20	WG1471403
1,3-Dichloropropane	U		0.109	1.00	1	05/06/2020 17:20	WG1471403
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/06/2020 17:20	WG1471403
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/06/2020 17:20	WG1471403
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/06/2020 17:20	WG1471403
2,2-Dichloropropane	U		0.161	0.500	1	05/06/2020 17:20	WG1471403
Di-isopropyl ether	U		0.105	0.500	1	05/06/2020 17:20	WG1471403
Ethylbenzene	U		0.137	0.500	1	05/06/2020 17:20	WG1471403
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/06/2020 17:20	WG1471403
2-Hexanone	U		0.787	5.00	1	05/06/2020 17:20	WG1471403
n-Hexane	U		0.749	5.00	1	05/06/2020 17:20	WG1471403
Iodomethane	U		0.554	5.00	1	05/06/2020 17:20	WG1471403
Isopropylbenzene	U		0.105	0.500	1	05/06/2020 17:20	WG1471403
p-Isopropyltoluene	U		0.120	0.500	1	05/06/2020 17:20	WG1471403
2-Butanone (MEK)	23.5		1.19	5.00	1	05/06/2020 17:20	WG1471403
Methylene Chloride	U		0.430	2.50	1	05/06/2020 17:20	WG1471403
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/06/2020 17:20	WG1471403
Methyl tert-butyl ether	U		0.101	0.500	1	05/06/2020 17:20	WG1471403
Naphthalene	U	JO	0.174	2.50	1	05/06/2020 17:20	WG1471403
n-Propylbenzene	U		0.0993	0.500	1	05/06/2020 17:20	WG1471403
Styrene	U		0.118	0.500	1	05/06/2020 17:20	WG1471403
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/06/2020 17:20	WG1471403
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/06/2020 17:20	WG1471403
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/06/2020 17:20	WG1471403
Tetrachloroethene	0.423	IL	0.300	0.500	1	05/06/2020 17:20	WG1471403
Toluene	0.311	IL	0.278	0.500	1	05/06/2020 17:20	WG1471403
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/06/2020 17:20	WG1471403
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/06/2020 17:20	WG1471403
1,1,1-Trichloroethane	U		0.149	0.500	1	05/06/2020 17:20	WG1471403
1,1,2-Trichloroethane	U		0.158	0.500	1	05/06/2020 17:20	WG1471403
Trichloroethene	0.353	IL	0.190	0.500	1	05/06/2020 17:20	WG1471403
Trichlorofluoromethane	U		0.160	2.50	1	05/06/2020 17:20	WG1471403
1,2,3-Trichloropropane	U		0.237	2.50	1	05/06/2020 17:20	WG1471403
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/06/2020 17:20	WG1471403
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 17:20	WG1471403
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 17:20	WG1471403

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
Vinyl acetate	U		0.692	5.00	1	05/06/2020 17:20	WG1471403
Vinyl chloride	24.3		0.234	0.500	1	05/06/2020 17:20	WG1471403
Xylenes, Total	U		0.174	1.50	1	05/06/2020 17:20	WG1471403
<i>(S) Toluene-d8</i>	110			80.0-120		05/06/2020 17:20	WG1471403
<i>(S) 4-Bromofluorobenzene</i>	102			77.0-126		05/06/2020 17:20	WG1471403
<i>(S) 1,2-Dichloroethane-d4</i>	94.8			70.0-130		05/06/2020 17:20	WG1471403

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	409000		8450	20000	1	05/04/2020 03:46	WG1469873

Sample Narrative:

L1214418-07 WG1469873: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	30300		379	1000	1	05/02/2020 19:08	WG1469630
Nitrate	U		48.0	100	1	05/02/2020 19:08	WG1469630
Sulfate	1790	J	594	5000	1	05/02/2020 19:08	WG1469630

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)	4700		102	1000	1	05/08/2020 03:15	WG1472044

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	18100		48.9	100	1	05/08/2020 17:08	WG1472548
Manganese	800		1.32	5.00	1	05/08/2020 17:08	WG1472548

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	51.1	B, J	31.6	100	1	05/08/2020 08:04	WG1472292
(S) a,a,a-Trifluorotoluene(FID)	93.8			78.0-120		05/08/2020 08:04	WG1472292

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	16800		2.87	6.78	10	05/11/2020 10:53	WG1473785
Ethane	86.5		0.296	1.29	1	05/08/2020 13:43	WG1472631
Ethene	U		0.422	1.27	1	05/08/2020 13:43	WG1472631

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		11.3	25.0	1	05/06/2020 17:40	WG1471403
Acrylonitrile	U		0.671	5.00	1	05/06/2020 17:40	WG1471403
Benzene	U		0.0941	0.500	1	05/06/2020 17:40	WG1471403
Bromobenzene	U		0.118	0.500	1	05/06/2020 17:40	WG1471403
Bromodichloromethane	U		0.136	0.500	1	05/06/2020 17:40	WG1471403
Bromochloromethane	U		0.128	0.500	1	05/06/2020 17:40	WG1471403
Bromoform	U		0.129	0.500	1	05/06/2020 17:40	WG1471403
Bromomethane	U		0.605	2.50	1	05/06/2020 17:40	WG1471403
n-Butylbenzene	U		0.157	0.500	1	05/06/2020 17:40	WG1471403
sec-Butylbenzene	U		0.125	0.500	1	05/06/2020 17:40	WG1471403
tert-Butylbenzene	U		0.127	0.500	1	05/06/2020 17:40	WG1471403
Carbon disulfide	0.149	J	0.0962	0.500	1	05/06/2020 17:40	WG1471403
Carbon tetrachloride	U		0.128	0.500	1	05/06/2020 17:40	WG1471403

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
Chlorobenzene	U		0.117	0.500	1	05/06/2020 17:40	WG1471403
Chlorodibromomethane	U		0.140	0.500	1	05/06/2020 17:40	WG1471403
Chloroethane	U		0.192	2.50	1	05/06/2020 17:40	WG1471403
Chloroform	U		0.111	0.500	1	05/06/2020 17:40	WG1471403
Chloromethane	U		0.960	1.25	1	05/06/2020 17:40	WG1471403
2-Chlorotoluene	U		0.106	0.500	1	05/06/2020 17:40	WG1471403
4-Chlorotoluene	U		0.114	0.500	1	05/06/2020 17:40	WG1471403
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/06/2020 17:40	WG1471403
1,2-Dibromoethane	U		0.126	0.500	1	05/06/2020 17:40	WG1471403
Dibromomethane	U		0.122	0.500	1	05/06/2020 17:40	WG1471403
1,2-Dichlorobenzene	U		0.107	0.500	1	05/06/2020 17:40	WG1471403
1,3-Dichlorobenzene	U		0.299	0.500	1	05/06/2020 17:40	WG1471403
1,4-Dichlorobenzene	U		0.120	0.500	1	05/06/2020 17:40	WG1471403
Dichlorodifluoromethane	U		0.374	2.50	1	05/06/2020 17:40	WG1471403
1,1-Dichloroethane	U		0.100	0.500	1	05/06/2020 17:40	WG1471403
1,2-Dichloroethane	U		0.0819	0.500	1	05/06/2020 17:40	WG1471403
1,1-Dichloroethene	U		0.188	0.500	1	05/06/2020 17:40	WG1471403
cis-1,2-Dichloroethene	0.877		0.126	0.500	1	05/06/2020 17:40	WG1471403
trans-1,2-Dichloroethene	0.653		0.149	0.500	1	05/06/2020 17:40	WG1471403
1,2-Dichloropropane	U		0.149	0.500	1	05/06/2020 17:40	WG1471403
1,1-Dichloropropene	U		0.142	0.500	1	05/06/2020 17:40	WG1471403
1,3-Dichloropropane	U		0.109	1.00	1	05/06/2020 17:40	WG1471403
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/06/2020 17:40	WG1471403
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/06/2020 17:40	WG1471403
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/06/2020 17:40	WG1471403
2,2-Dichloropropane	U		0.161	0.500	1	05/06/2020 17:40	WG1471403
Di-isopropyl ether	U		0.105	0.500	1	05/06/2020 17:40	WG1471403
Ethylbenzene	U		0.137	0.500	1	05/06/2020 17:40	WG1471403
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/06/2020 17:40	WG1471403
2-Hexanone	U		0.787	5.00	1	05/06/2020 17:40	WG1471403
n-Hexane	U		0.749	5.00	1	05/06/2020 17:40	WG1471403
Iodomethane	U		0.554	5.00	1	05/06/2020 17:40	WG1471403
Isopropylbenzene	U		0.105	0.500	1	05/06/2020 17:40	WG1471403
p-Isopropyltoluene	U		0.120	0.500	1	05/06/2020 17:40	WG1471403
2-Butanone (MEK)	U		1.19	5.00	1	05/06/2020 17:40	WG1471403
Methylene Chloride	U		0.430	2.50	1	05/06/2020 17:40	WG1471403
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/06/2020 17:40	WG1471403
Methyl tert-butyl ether	U		0.101	0.500	1	05/06/2020 17:40	WG1471403
Naphthalene	U	<u>JO</u>	0.174	2.50	1	05/06/2020 17:40	WG1471403
n-Propylbenzene	U		0.0993	0.500	1	05/06/2020 17:40	WG1471403
Styrene	U		0.118	0.500	1	05/06/2020 17:40	WG1471403
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/06/2020 17:40	WG1471403
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/06/2020 17:40	WG1471403
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/06/2020 17:40	WG1471403
Tetrachloroethene	U		0.300	0.500	1	05/06/2020 17:40	WG1471403
Toluene	0.701		0.278	0.500	1	05/06/2020 17:40	WG1471403
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/06/2020 17:40	WG1471403
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/06/2020 17:40	WG1471403
1,1,1-Trichloroethane	U		0.149	0.500	1	05/06/2020 17:40	WG1471403
1,1,2-Trichloroethane	U		0.158	0.500	1	05/06/2020 17:40	WG1471403
Trichloroethene	U		0.190	0.500	1	05/06/2020 17:40	WG1471403
Trichlorofluoromethane	U		0.160	2.50	1	05/06/2020 17:40	WG1471403
1,2,3-Trichloropropane	U		0.237	2.50	1	05/06/2020 17:40	WG1471403
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/06/2020 17:40	WG1471403
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 17:40	WG1471403
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 17:40	WG1471403

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
Vinyl acetate	U		0.692	5.00	1	05/06/2020 17:40	WG1471403
Vinyl chloride	1.04		0.234	0.500	1	05/06/2020 17:40	WG1471403
Xylenes, Total	0.710	J	0.174	1.50	1	05/06/2020 17:40	WG1471403
<i>(S) Toluene-d8</i>	110			80.0-120		05/06/2020 17:40	WG1471403
<i>(S) 4-Bromofluorobenzene</i>	102			77.0-126		05/06/2020 17:40	WG1471403
<i>(S) 1,2-Dichloroethane-d4</i>	97.7			70.0-130		05/06/2020 17:40	WG1471403

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	893000		8450	20000	1	05/04/2020 03:56	WG1469873

Sample Narrative:

L1214418-08 WG1469873: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	87300		379	1000	1	05/02/2020 19:22	WG1469630
Nitrate	U		48.0	100	1	05/02/2020 19:22	WG1469630
Sulfate	U		594	5000	1	05/02/2020 19:22	WG1469630

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)	45500		204	2000	2	05/08/2020 03:52	WG1472044

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	34300		48.9	100	1	05/08/2020 17:11	WG1472548
Manganese	1920		1.32	5.00	1	05/08/2020 17:11	WG1472548

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	49.1	<u>B</u>	31.6	100	1	05/08/2020 08:26	WG1472292
(S) a,a,a-Trifluorotoluene(FID)	93.0			78.0-120		05/08/2020 08:26	WG1472292

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	19200		2.87	6.78	10	05/11/2020 10:56	WG1473785
Ethane	608		0.296	1.29	1	05/08/2020 13:47	WG1472631
Ethene	162		0.422	1.27	1	05/08/2020 13:47	WG1472631

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		11.3	25.0	1	05/06/2020 18:00	WG1471403
Acrylonitrile	U		0.671	5.00	1	05/06/2020 18:00	WG1471403
Benzene	U		0.0941	0.500	1	05/06/2020 18:00	WG1471403
Bromobenzene	U		0.118	0.500	1	05/06/2020 18:00	WG1471403
Bromodichloromethane	U		0.136	0.500	1	05/06/2020 18:00	WG1471403
Bromochloromethane	U		0.128	0.500	1	05/06/2020 18:00	WG1471403
Bromoform	U		0.129	0.500	1	05/06/2020 18:00	WG1471403
Bromomethane	U		0.605	2.50	1	05/06/2020 18:00	WG1471403
n-Butylbenzene	U		0.157	0.500	1	05/06/2020 18:00	WG1471403
sec-Butylbenzene	U		0.125	0.500	1	05/06/2020 18:00	WG1471403
tert-Butylbenzene	U		0.127	0.500	1	05/06/2020 18:00	WG1471403
Carbon disulfide	0.0963	<u>J</u>	0.0962	0.500	1	05/06/2020 18:00	WG1471403
Carbon tetrachloride	U		0.128	0.500	1	05/06/2020 18:00	WG1471403

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
Chlorobenzene	U		0.117	0.500	1	05/06/2020 18:00	WG1471403
Chlorodibromomethane	U		0.140	0.500	1	05/06/2020 18:00	WG1471403
Chloroethane	U		0.192	2.50	1	05/06/2020 18:00	WG1471403
Chloroform	U		0.111	0.500	1	05/06/2020 18:00	WG1471403
Chloromethane	U		0.960	1.25	1	05/06/2020 18:00	WG1471403
2-Chlorotoluene	U		0.106	0.500	1	05/06/2020 18:00	WG1471403
4-Chlorotoluene	U		0.114	0.500	1	05/06/2020 18:00	WG1471403
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/06/2020 18:00	WG1471403
1,2-Dibromoethane	U		0.126	0.500	1	05/06/2020 18:00	WG1471403
Dibromomethane	U		0.122	0.500	1	05/06/2020 18:00	WG1471403
1,2-Dichlorobenzene	U		0.107	0.500	1	05/06/2020 18:00	WG1471403
1,3-Dichlorobenzene	U		0.299	0.500	1	05/06/2020 18:00	WG1471403
1,4-Dichlorobenzene	U		0.120	0.500	1	05/06/2020 18:00	WG1471403
Dichlorodifluoromethane	U		0.374	2.50	1	05/06/2020 18:00	WG1471403
1,1-Dichloroethane	U		0.100	0.500	1	05/06/2020 18:00	WG1471403
1,2-Dichloroethane	U		0.0819	0.500	1	05/06/2020 18:00	WG1471403
1,1-Dichloroethene	U		0.188	0.500	1	05/06/2020 18:00	WG1471403
cis-1,2-Dichloroethene	20.4		0.126	0.500	1	05/06/2020 18:00	WG1471403
trans-1,2-Dichloroethene	2.03		0.149	0.500	1	05/06/2020 18:00	WG1471403
1,2-Dichloropropane	U		0.149	0.500	1	05/06/2020 18:00	WG1471403
1,1-Dichloropropene	U		0.142	0.500	1	05/06/2020 18:00	WG1471403
1,3-Dichloropropane	U		0.109	1.00	1	05/06/2020 18:00	WG1471403
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/06/2020 18:00	WG1471403
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/06/2020 18:00	WG1471403
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/06/2020 18:00	WG1471403
2,2-Dichloropropane	U		0.161	0.500	1	05/06/2020 18:00	WG1471403
Di-isopropyl ether	U		0.105	0.500	1	05/06/2020 18:00	WG1471403
Ethylbenzene	U		0.137	0.500	1	05/06/2020 18:00	WG1471403
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/06/2020 18:00	WG1471403
2-Hexanone	U		0.787	5.00	1	05/06/2020 18:00	WG1471403
n-Hexane	U		0.749	5.00	1	05/06/2020 18:00	WG1471403
Iodomethane	U		0.554	5.00	1	05/06/2020 18:00	WG1471403
Isopropylbenzene	U		0.105	0.500	1	05/06/2020 18:00	WG1471403
p-Isopropyltoluene	U		0.120	0.500	1	05/06/2020 18:00	WG1471403
2-Butanone (MEK)	U		1.19	5.00	1	05/06/2020 18:00	WG1471403
Methylene Chloride	U		0.430	2.50	1	05/06/2020 18:00	WG1471403
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/06/2020 18:00	WG1471403
Methyl tert-butyl ether	U		0.101	0.500	1	05/06/2020 18:00	WG1471403
Naphthalene	U	<u>JO</u>	0.174	2.50	1	05/06/2020 18:00	WG1471403
n-Propylbenzene	U		0.0993	0.500	1	05/06/2020 18:00	WG1471403
Styrene	U		0.118	0.500	1	05/06/2020 18:00	WG1471403
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/06/2020 18:00	WG1471403
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/06/2020 18:00	WG1471403
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/06/2020 18:00	WG1471403
Tetrachloroethene	U		0.300	0.500	1	05/06/2020 18:00	WG1471403
Toluene	U		0.278	0.500	1	05/06/2020 18:00	WG1471403
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/06/2020 18:00	WG1471403
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/06/2020 18:00	WG1471403
1,1,1-Trichloroethane	U		0.149	0.500	1	05/06/2020 18:00	WG1471403
1,1,2-Trichloroethane	U		0.158	0.500	1	05/06/2020 18:00	WG1471403
Trichloroethene	U		0.190	0.500	1	05/06/2020 18:00	WG1471403
Trichlorofluoromethane	U		0.160	2.50	1	05/06/2020 18:00	WG1471403
1,2,3-Trichloropropane	U		0.237	2.50	1	05/06/2020 18:00	WG1471403
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/06/2020 18:00	WG1471403
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 18:00	WG1471403
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 18:00	WG1471403

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
Vinyl acetate	U		0.692	5.00	1	05/06/2020 18:00	WG1471403
Vinyl chloride	29.5		0.234	0.500	1	05/06/2020 18:00	WG1471403
Xylenes, Total	U		0.174	1.50	1	05/06/2020 18:00	WG1471403
<i>(S) Toluene-d8</i>	109			80.0-120		05/06/2020 18:00	WG1471403
<i>(S) 4-Bromofluorobenzene</i>	97.4			77.0-126		05/06/2020 18:00	WG1471403
<i>(S) 1,2-Dichloroethane-d4</i>	95.1			70.0-130		05/06/2020 18:00	WG1471403

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	484000		8450	20000	1	05/04/2020 04:07	WG1469873

Sample Narrative:

L1214418-09 WG1469873: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	46600		379	1000	1	05/02/2020 19:51	WG1469630
Nitrate	U		48.0	100	1	05/02/2020 19:51	WG1469630
Sulfate	7090		594	5000	1	05/02/2020 19:51	WG1469630

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)	20500		102	1000	1	05/08/2020 04:13	WG1472044

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1320		48.9	100	1	05/08/2020 17:14	WG1472548
Manganese	835		1.32	5.00	1	05/08/2020 17:14	WG1472548

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	U		31.6	100	1	05/08/2020 22:15	WG1472903
(S) a,a,a-Trifluorotoluene(FID)	101			78.0-120		05/08/2020 22:15	WG1472903

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	17700		2.87	6.78	10	05/11/2020 10:59	WG1473785
Ethane	71.6		0.296	1.29	1	05/08/2020 13:49	WG1472631
Ethene	117		0.422	1.27	1	05/08/2020 13:49	WG1472631

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		11.3	25.0	1	05/06/2020 18:21	WG1471403
Acrylonitrile	U		0.671	5.00	1	05/06/2020 18:21	WG1471403
Benzene	0.139	J	0.0941	0.500	1	05/06/2020 18:21	WG1471403
Bromobenzene	U		0.118	0.500	1	05/06/2020 18:21	WG1471403
Bromodichloromethane	U		0.136	0.500	1	05/06/2020 18:21	WG1471403
Bromochloromethane	U		0.128	0.500	1	05/06/2020 18:21	WG1471403
Bromoform	U		0.129	0.500	1	05/06/2020 18:21	WG1471403
Bromomethane	U		0.605	2.50	1	05/06/2020 18:21	WG1471403
n-Butylbenzene	U		0.157	0.500	1	05/06/2020 18:21	WG1471403
sec-Butylbenzene	U		0.125	0.500	1	05/06/2020 18:21	WG1471403
tert-Butylbenzene	U		0.127	0.500	1	05/06/2020 18:21	WG1471403
Carbon disulfide	0.168	J	0.0962	0.500	1	05/06/2020 18:21	WG1471403
Carbon tetrachloride	U		0.128	0.500	1	05/06/2020 18:21	WG1471403

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
Chlorobenzene	U		0.117	0.500	1	05/06/2020 18:21	WG1471403
Chlorodibromomethane	U		0.140	0.500	1	05/06/2020 18:21	WG1471403
Chloroethane	U		0.192	2.50	1	05/06/2020 18:21	WG1471403
Chloroform	U		0.111	0.500	1	05/06/2020 18:21	WG1471403
Chloromethane	U		0.960	1.25	1	05/06/2020 18:21	WG1471403
2-Chlorotoluene	U		0.106	0.500	1	05/06/2020 18:21	WG1471403
4-Chlorotoluene	U		0.114	0.500	1	05/06/2020 18:21	WG1471403
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/06/2020 18:21	WG1471403
1,2-Dibromoethane	U		0.126	0.500	1	05/06/2020 18:21	WG1471403
Dibromomethane	U		0.122	0.500	1	05/06/2020 18:21	WG1471403
1,2-Dichlorobenzene	U		0.107	0.500	1	05/06/2020 18:21	WG1471403
1,3-Dichlorobenzene	U		0.299	0.500	1	05/06/2020 18:21	WG1471403
1,4-Dichlorobenzene	U		0.120	0.500	1	05/06/2020 18:21	WG1471403
Dichlorodifluoromethane	U		0.374	2.50	1	05/06/2020 18:21	WG1471403
1,1-Dichloroethane	U		0.100	0.500	1	05/06/2020 18:21	WG1471403
1,2-Dichloroethane	U		0.0819	0.500	1	05/06/2020 18:21	WG1471403
1,1-Dichloroethene	U		0.188	0.500	1	05/06/2020 18:21	WG1471403
cis-1,2-Dichloroethene	0.493	U	0.126	0.500	1	05/06/2020 18:21	WG1471403
trans-1,2-Dichloroethene	1.88		0.149	0.500	1	05/06/2020 18:21	WG1471403
1,2-Dichloropropane	U		0.149	0.500	1	05/06/2020 18:21	WG1471403
1,1-Dichloropropene	U		0.142	0.500	1	05/06/2020 18:21	WG1471403
1,3-Dichloropropane	U		0.109	1.00	1	05/06/2020 18:21	WG1471403
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/06/2020 18:21	WG1471403
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/06/2020 18:21	WG1471403
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/06/2020 18:21	WG1471403
2,2-Dichloropropane	U		0.161	0.500	1	05/06/2020 18:21	WG1471403
Di-isopropyl ether	U		0.105	0.500	1	05/06/2020 18:21	WG1471403
Ethylbenzene	U		0.137	0.500	1	05/06/2020 18:21	WG1471403
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/06/2020 18:21	WG1471403
2-Hexanone	U		0.787	5.00	1	05/06/2020 18:21	WG1471403
n-Hexane	U		0.749	5.00	1	05/06/2020 18:21	WG1471403
Iodomethane	U		0.554	5.00	1	05/06/2020 18:21	WG1471403
Isopropylbenzene	U		0.105	0.500	1	05/06/2020 18:21	WG1471403
p-Isopropyltoluene	U		0.120	0.500	1	05/06/2020 18:21	WG1471403
2-Butanone (MEK)	U		1.19	5.00	1	05/06/2020 18:21	WG1471403
Methylene Chloride	U		0.430	2.50	1	05/06/2020 18:21	WG1471403
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/06/2020 18:21	WG1471403
Methyl tert-butyl ether	U		0.101	0.500	1	05/06/2020 18:21	WG1471403
Naphthalene	U	UO	0.174	2.50	1	05/06/2020 18:21	WG1471403
n-Propylbenzene	U		0.0993	0.500	1	05/06/2020 18:21	WG1471403
Styrene	U		0.118	0.500	1	05/06/2020 18:21	WG1471403
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/06/2020 18:21	WG1471403
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/06/2020 18:21	WG1471403
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/06/2020 18:21	WG1471403
Tetrachloroethene	U		0.300	0.500	1	05/06/2020 18:21	WG1471403
Toluene	U		0.278	0.500	1	05/06/2020 18:21	WG1471403
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/06/2020 18:21	WG1471403
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/06/2020 18:21	WG1471403
1,1,1-Trichloroethane	U		0.149	0.500	1	05/06/2020 18:21	WG1471403
1,1,2-Trichloroethane	U		0.158	0.500	1	05/06/2020 18:21	WG1471403
Trichloroethene	U		0.190	0.500	1	05/06/2020 18:21	WG1471403
Trichlorofluoromethane	U		0.160	2.50	1	05/06/2020 18:21	WG1471403
1,2,3-Trichloropropane	U		0.237	2.50	1	05/06/2020 18:21	WG1471403
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/06/2020 18:21	WG1471403
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 18:21	WG1471403
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 18:21	WG1471403

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
Vinyl acetate	U		0.692	5.00	1	05/06/2020 18:21	WG1471403
Vinyl chloride	7.87		0.234	0.500	1	05/06/2020 18:21	WG1471403
Xylenes, Total	0.225	J	0.174	1.50	1	05/06/2020 18:21	WG1471403
(S) Toluene-d8	107			80.0-120		05/06/2020 18:21	WG1471403
(S) 4-Bromofluorobenzene	101			77.0-126		05/06/2020 18:21	WG1471403
(S) 1,2-Dichloroethane-d4	93.8			70.0-130		05/06/2020 18:21	WG1471403

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	39.9	<u>B</u>	31.6	100	1	05/08/2020 16:01	WG1472903
(S) a,a,a-Trifluorotoluene(FID)	99.2			78.0-120		05/08/2020 16:01	WG1472903

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	U		11.3	25.0	1	05/06/2020 12:54	WG1471403
Acrylonitrile	U		0.671	5.00	1	05/06/2020 12:54	WG1471403
Benzene	U		0.0941	0.500	1	05/06/2020 12:54	WG1471403
Bromobenzene	U		0.118	0.500	1	05/06/2020 12:54	WG1471403
Bromodichloromethane	U		0.136	0.500	1	05/06/2020 12:54	WG1471403
Bromochloromethane	U		0.128	0.500	1	05/06/2020 12:54	WG1471403
Bromoform	U		0.129	0.500	1	05/06/2020 12:54	WG1471403
Bromomethane	U		0.605	2.50	1	05/06/2020 12:54	WG1471403
n-Butylbenzene	U		0.157	0.500	1	05/06/2020 12:54	WG1471403
sec-Butylbenzene	U		0.125	0.500	1	05/06/2020 12:54	WG1471403
tert-Butylbenzene	U		0.127	0.500	1	05/06/2020 12:54	WG1471403
Carbon disulfide	U		0.0962	0.500	1	05/06/2020 12:54	WG1471403
Carbon tetrachloride	U		0.128	0.500	1	05/06/2020 12:54	WG1471403
Chlorobenzene	U		0.117	0.500	1	05/06/2020 12:54	WG1471403
Chlorodibromomethane	U		0.140	0.500	1	05/06/2020 12:54	WG1471403
Chloroethane	U		0.192	2.50	1	05/06/2020 12:54	WG1471403
Chloroform	U		0.111	0.500	1	05/06/2020 12:54	WG1471403
Chloromethane	U		0.960	1.25	1	05/06/2020 12:54	WG1471403
2-Chlorotoluene	U		0.106	0.500	1	05/06/2020 12:54	WG1471403
4-Chlorotoluene	U		0.114	0.500	1	05/06/2020 12:54	WG1471403
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/06/2020 12:54	WG1471403
1,2-Dibromoethane	U		0.126	0.500	1	05/06/2020 12:54	WG1471403
Dibromomethane	U		0.122	0.500	1	05/06/2020 12:54	WG1471403
1,2-Dichlorobenzene	U		0.107	0.500	1	05/06/2020 12:54	WG1471403
1,3-Dichlorobenzene	U		0.299	0.500	1	05/06/2020 12:54	WG1471403
1,4-Dichlorobenzene	U		0.120	0.500	1	05/06/2020 12:54	WG1471403
Dichlorodifluoromethane	U		0.374	2.50	1	05/06/2020 12:54	WG1471403
1,1-Dichloroethane	U		0.100	0.500	1	05/06/2020 12:54	WG1471403
1,2-Dichloroethane	U		0.0819	0.500	1	05/06/2020 12:54	WG1471403
1,1-Dichloroethene	U		0.188	0.500	1	05/06/2020 12:54	WG1471403
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/06/2020 12:54	WG1471403
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/06/2020 12:54	WG1471403
1,2-Dichloropropane	U		0.149	0.500	1	05/06/2020 12:54	WG1471403
1,1-Dichloropropene	U		0.142	0.500	1	05/06/2020 12:54	WG1471403
1,3-Dichloropropane	U		0.109	1.00	1	05/06/2020 12:54	WG1471403
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/06/2020 12:54	WG1471403
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/06/2020 12:54	WG1471403
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/06/2020 12:54	WG1471403
2,2-Dichloropropane	U		0.161	0.500	1	05/06/2020 12:54	WG1471403
Di-isopropyl ether	U		0.105	0.500	1	05/06/2020 12:54	WG1471403
Ethylbenzene	U		0.137	0.500	1	05/06/2020 12:54	WG1471403
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/06/2020 12:54	WG1471403
2-Hexanone	U		0.787	5.00	1	05/06/2020 12:54	WG1471403
n-Hexane	U		0.749	5.00	1	05/06/2020 12:54	WG1471403
Iodomethane	U		0.554	5.00	1	05/06/2020 12:54	WG1471403
Isopropylbenzene	U		0.105	0.500	1	05/06/2020 12:54	WG1471403
p-Isopropyltoluene	U		0.120	0.500	1	05/06/2020 12:54	WG1471403
2-Butanone (MEK)	U		1.19	5.00	1	05/06/2020 12:54	WG1471403

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
Methylene Chloride	U		0.430	2.50	1	05/06/2020 12:54	WG1471403
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/06/2020 12:54	WG1471403
Methyl tert-butyl ether	U		0.101	0.500	1	05/06/2020 12:54	WG1471403
Naphthalene	U	<u>JO</u>	0.174	2.50	1	05/06/2020 12:54	WG1471403
n-Propylbenzene	U		0.0993	0.500	1	05/06/2020 12:54	WG1471403
Styrene	U		0.118	0.500	1	05/06/2020 12:54	WG1471403
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/06/2020 12:54	WG1471403
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/06/2020 12:54	WG1471403
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/06/2020 12:54	WG1471403
Tetrachloroethene	U		0.300	0.500	1	05/06/2020 12:54	WG1471403
Toluene	U		0.278	0.500	1	05/06/2020 12:54	WG1471403
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/06/2020 12:54	WG1471403
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/06/2020 12:54	WG1471403
1,1,1-Trichloroethane	U		0.149	0.500	1	05/06/2020 12:54	WG1471403
1,1,2-Trichloroethane	U		0.158	0.500	1	05/06/2020 12:54	WG1471403
Trichloroethene	U		0.190	0.500	1	05/06/2020 12:54	WG1471403
Trichlorofluoromethane	U		0.160	2.50	1	05/06/2020 12:54	WG1471403
1,2,3-Trichloropropane	U		0.237	2.50	1	05/06/2020 12:54	WG1471403
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/06/2020 12:54	WG1471403
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 12:54	WG1471403
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/06/2020 12:54	WG1471403
Vinyl acetate	U		0.692	5.00	1	05/06/2020 12:54	WG1471403
Vinyl chloride	U		0.234	0.500	1	05/06/2020 12:54	WG1471403
Xylenes, Total	U		0.174	1.50	1	05/06/2020 12:54	WG1471403
(S) Toluene-d8	109			80.0-120		05/06/2020 12:54	WG1471403
(S) 4-Bromofluorobenzene	95.6			77.0-126		05/06/2020 12:54	WG1471403
(S) 1,2-Dichloroethane-d4	97.0			70.0-130		05/06/2020 12:54	WG1471403

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



Method Blank (MB)

(MB) R3524216-1 05/04/20 01:28

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1214418-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1214418-01 05/04/20 02:03 • (DUP) R3524216-3 05/04/20 02:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	223000	220000	1	1.11		20

Sample Narrative:

OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

L1214555-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1214555-04 05/04/20 05:16 • (DUP) R3524216-6 05/04/20 05:26

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	113000	113000	1	0.147		20

Sample Narrative:

OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3524216-5 05/04/20 03:19

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	100000	100	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3524498-1 05/02/20 09:19

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Chloride	U		379	1000
Nitrate	U		48.0	100
Sulfate	U		594	5000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1214387-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1214387-01 05/02/20 13:22 • (DUP) R3524498-3 05/02/20 13:36

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	10100000	10000000	1	0.281	E	15
Nitrate	737	687	1	7.03		15
Sulfate	2270000	2270000	1	0.100	E	15

L1214418-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1214418-03 05/02/20 16:58 • (DUP) R3524498-8 05/02/20 17:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	38700	38700	1	0.0620		15
Nitrate	U	0.000	1	0.000		15
Sulfate	U	0.000	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3524498-2 05/02/20 09:34

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Chloride	40000	40000	100	80.0-120	
Nitrate	8000	8210	103	80.0-120	
Sulfate	40000	39300	98.3	80.0-120	



L1214387-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1214387-02 05/02/20 13:51 • (MS) R3524498-6 05/02/20 15:31 • (MSD) R3524498-7 05/02/20 15:46

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 %
Chloride	50000	11900000	11200000	11200000	0.000	0.000	1	80.0-120	<u>EV</u>	<u>EV</u>	0.0479	15
Nitrate	5000	2530	7370	7370	96.7	96.7	1	80.0-120			0.00271	15
Sulfate	50000	2880000	2820000	2820000	0.000	0.000	1	80.0-120	<u>EV</u>	<u>EV</u>	0.113	15

L1214418-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1214418-04 05/02/20 17:56 • (MS) R3524498-9 05/02/20 18:10

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	16200	66800	101	1	80.0-120	
Nitrate	5000	U	5030	101	1	80.0-120	
Sulfate	50000	U	48400	96.9	1	80.0-120	

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



Method Blank (MB)

(MB) R3525475-1 05/06/20 19:48

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	227	↓	102	1000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

L1214061-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1214061-04 05/06/20 21:55 • (DUP) R3525475-3 05/06/20 22:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	ND	305	1	0.000		20

6 Qc

L1214190-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1214190-05 05/07/20 01:27 • (DUP) R3525475-6 05/07/20 01:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	948	898	1	5.46	↓	20

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3525475-2 05/06/20 20:21

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	74800	99.7	85.0-115	

L1214190-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1214190-01 05/06/20 23:51 • (MS) R3525475-4 05/07/20 00:09 • (MSD) R3525475-5 05/07/20 00:27

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	997	53800	53900	106	106	1	80.0-120			0.223	20

L1214190-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1214190-07 05/07/20 03:20 • (MS) R3525475-7 05/07/20 03:38 • (MSD) R3525475-8 05/07/20 03:57

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	596	53500	53800	106	106	1	80.0-120			0.485	20



Method Blank (MB)

(MB) R3526037-1 05/07/20 23:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	247	↓	102	1000

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1214418-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1214418-07 05/08/20 03:15 • (DUP) R3526037-5 05/08/20 03:31

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	4700	4710	1	0.297		20

L1214554-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1214554-14 05/08/20 13:22 • (DUP) R3526037-9 05/08/20 13:36

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	4480	4320	1	3.55		20

Laboratory Control Sample (LCS)

(LCS) R3526037-2 05/08/20 00:10

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC	75000	80500	107	85.0-115	

L1214418-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1214418-05 05/08/20 01:08 • (MS) R3526037-3 05/08/20 01:25 • (MSD) R3526037-4 05/08/20 01:41

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	2900	58500	60800	111	116	1	80.0-120			3.74	20

L1214811-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1214811-01 05/08/20 07:04 • (MS) R3526037-7 05/08/20 07:21 • (MSD) R3526037-8 05/08/20 07:38

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	2680	60100	59000	115	113	1	80.0-120			1.80	20



Method Blank (MB)

(MB) R3526078-1 05/08/20 16:12

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		48.9	100
Manganese	U		1.32	5.00

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3526078-2 05/08/20 16:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron	5000	4810	96.2	80.0-120	
Manganese	50.0	48.0	96.0	80.0-120	

5 Sr

6 Qc

L1216335-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1216335-02 05/08/20 16:19 • (MS) R3526078-4 05/08/20 16:25 • (MSD) R3526078-5 05/08/20 16:28

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	ND	4900	4960	98.0	99.3	1	75.0-125			1.23	20
Manganese	50.0	ND	49.2	49.1	98.4	98.2	1	75.0-125			0.274	20

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3526183-2 05/08/20 01:46

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	65.4	↓	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	93.5			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3526183-1 05/08/20 01:01

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)			97.9	78.0-120	



Method Blank (MB)

(MB) R3526368-2 05/08/20 14:20

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	40.6	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	99.1			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3526368-1 05/08/20 13:25

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5070	92.2	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			106	78.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3526000-2 05/08/20 12:41

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1215954-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1215954-01 05/08/20 12:44 • (DUP) R3526000-3 05/08/20 13:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	2870	2960	1	3.09		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

L1214418-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1214418-01 05/08/20 13:25 • (DUP) R3526000-4 05/08/20 13:51

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	598	588	1	1.69		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

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

(LCS) R3526000-1 05/08/20 12:04 • (LCSD) R3526000-5 05/08/20 13:54

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	62.3	91.0	91.9	85.0-115			0.968	20
Ethane	129	126	124	97.7	96.1	85.0-115			1.60	20
Ethene	127	120	118	94.5	92.9	85.0-115			1.68	20



Method Blank (MB)

(MB) R3526599-2 05/11/20 10:34

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Methane	U		0.287	0.678

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L1214418-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1214418-07 05/11/20 10:53 • (DUP) R3526599-3 05/11/20 11:24

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Methane	16800	16600	10	1.20		20

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

(LCS) R3526599-1 05/11/20 10:07 • (LCSD) R3526599-5 05/11/20 12:57

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Methane	67.8	65.4	63.9	96.5	94.2	85.0-115			2.32	20

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3525490-2 05/06/20 12:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromochloromethane	U		0.128	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
trans-1,4-Dichloro-2-butene	U		0.467	5.00
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3525490-2 05/06/20 12:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	0.500
Hexachloro-1,3-butadiene	U		0.337	1.00
2-Hexanone	U		0.787	5.00
n-Hexane	U		0.749	5.00
Iodomethane	U		0.554	5.00
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	0.500
1,2,3-Trimethylbenzene	U		0.104	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl acetate	U		0.692	5.00
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	107			80.0-120
(S) 4-Bromofluorobenzene	97.9			77.0-126
(S) 1,2-Dichloroethane-d4	95.6			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) R3525490-1 05/06/20 11:25

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	25.0	26.1	104	19.0-160	
Acrylonitrile	25.0	23.7	94.8	55.0-149	
Benzene	5.00	4.88	97.6	70.0-123	
Bromobenzene	5.00	4.93	98.6	73.0-121	
Bromodichloromethane	5.00	4.56	91.2	75.0-120	
Bromochloromethane	5.00	5.39	108	76.0-122	
Bromoform	5.00	4.42	88.4	68.0-132	
Bromomethane	5.00	5.00	100	10.0-160	
n-Butylbenzene	5.00	5.12	102	73.0-125	
sec-Butylbenzene	5.00	4.82	96.4	75.0-125	
tert-Butylbenzene	5.00	4.80	96.0	76.0-124	
Carbon disulfide	5.00	4.98	99.6	61.0-128	
Carbon tetrachloride	5.00	4.88	97.6	68.0-126	
Chlorobenzene	5.00	4.84	96.8	80.0-121	
Chlorodibromomethane	5.00	5.01	100	77.0-125	
Chloroethane	5.00	5.83	117	47.0-150	
Chloroform	5.00	4.72	94.4	73.0-120	
Chloromethane	5.00	5.19	104	41.0-142	
2-Chlorotoluene	5.00	5.06	101	76.0-123	
4-Chlorotoluene	5.00	4.92	98.4	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.12	82.4	58.0-134	
1,2-Dibromoethane	5.00	4.50	90.0	80.0-122	
Dibromomethane	5.00	4.59	91.8	80.0-120	
1,2-Dichlorobenzene	5.00	5.03	101	79.0-121	
1,3-Dichlorobenzene	5.00	5.21	104	79.0-120	
1,4-Dichlorobenzene	5.00	5.10	102	79.0-120	
Dichlorodifluoromethane	5.00	5.51	110	51.0-149	
1,1-Dichloroethane	5.00	4.78	95.6	70.0-126	
1,2-Dichloroethane	5.00	4.81	96.2	70.0-128	
1,1-Dichloroethene	5.00	4.74	94.8	71.0-124	
cis-1,2-Dichloroethene	5.00	5.13	103	73.0-120	
trans-1,2-Dichloroethene	5.00	4.87	97.4	73.0-120	
1,2-Dichloropropane	5.00	4.67	93.4	77.0-125	
1,1-Dichloropropene	5.00	4.78	95.6	74.0-126	
1,3-Dichloropropane	5.00	4.55	91.0	80.0-120	
cis-1,3-Dichloropropene	5.00	4.46	89.2	80.0-123	
trans-1,3-Dichloropropene	5.00	4.75	95.0	78.0-124	
trans-1,4-Dichloro-2-butene	5.00	5.10	102	33.0-144	
2,2-Dichloropropane	5.00	5.05	101	58.0-130	
Di-isopropyl ether	5.00	4.79	95.8	58.0-138	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3525490-1 05/06/20 11:25

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	5.00	5.06	101	79.0-123	
Hexachloro-1,3-butadiene	5.00	4.77	95.4	54.0-138	
2-Hexanone	25.0	20.7	82.8	67.0-149	
n-Hexane	5.00	5.56	111	57.0-133	
Iodomethane	25.0	25.5	102	33.0-147	
Isopropylbenzene	5.00	4.75	95.0	76.0-127	
p-Isopropyltoluene	5.00	5.08	102	76.0-125	
2-Butanone (MEK)	25.0	20.1	80.4	44.0-160	
Methylene Chloride	5.00	5.19	104	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	22.3	89.2	68.0-142	
Methyl tert-butyl ether	5.00	4.81	96.2	68.0-125	
Naphthalene	5.00	4.36	87.2	54.0-135	
n-Propylbenzene	5.00	5.22	104	77.0-124	
Styrene	5.00	4.62	92.4	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	4.97	99.4	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	4.97	99.4	65.0-130	
1,1,2-Trichlorotrifluoroethane	5.00	5.13	103	69.0-132	
Tetrachloroethene	5.00	5.36	107	72.0-132	
Toluene	5.00	4.55	91.0	79.0-120	
1,2,3-Trichlorobenzene	5.00	4.68	93.6	50.0-138	
1,2,4-Trichlorobenzene	5.00	5.17	103	57.0-137	
1,1,1-Trichloroethane	5.00	4.86	97.2	73.0-124	
1,1,2-Trichloroethane	5.00	4.54	90.8	80.0-120	
Trichloroethene	5.00	4.77	95.4	78.0-124	
Trichlorofluoromethane	5.00	5.15	103	59.0-147	
1,2,3-Trichloropropane	5.00	5.06	101	73.0-130	
1,2,4-Trimethylbenzene	5.00	4.98	99.6	76.0-121	
1,2,3-Trimethylbenzene	5.00	4.98	99.6	77.0-120	
1,3,5-Trimethylbenzene	5.00	4.98	99.6	76.0-122	
Vinyl acetate	25.0	24.7	98.8	11.0-160	
Vinyl chloride	5.00	5.37	107	67.0-131	
Xylenes, Total	15.0	14.4	96.0	79.0-123	
<i>(S) Toluene-d8</i>			106	80.0-120	
<i>(S) 4-Bromofluorobenzene</i>			88.8	77.0-126	
<i>(S) 1,2-Dichloroethane-d4</i>			95.1	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) R3526722-3 05/11/20 09:44

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Tetrachloroethene	U		0.300	0.500
Trichloroethene	U		0.190	0.500
(S) Toluene-d8	114			80.0-120
(S) 4-Bromofluorobenzene	99.9			77.0-126
(S) 1,2-Dichloroethane-d4	116			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

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

(LCS) R3526722-1 05/11/20 08:26 • (LCSD) R3526722-2 05/11/20 08:46

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	%	%	%			%	%
Tetrachloroethene	5.00	5.64	5.10	113	102	72.0-132			10.1	20
Trichloroethene	5.00	5.17	5.01	103	100	78.0-124			3.14	20
(S) Toluene-d8				108	109	80.0-120				
(S) 4-Bromofluorobenzene				103	102	77.0-126				
(S) 1,2-Dichloroethane-d4				113	110	70.0-130				

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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.
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.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
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}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

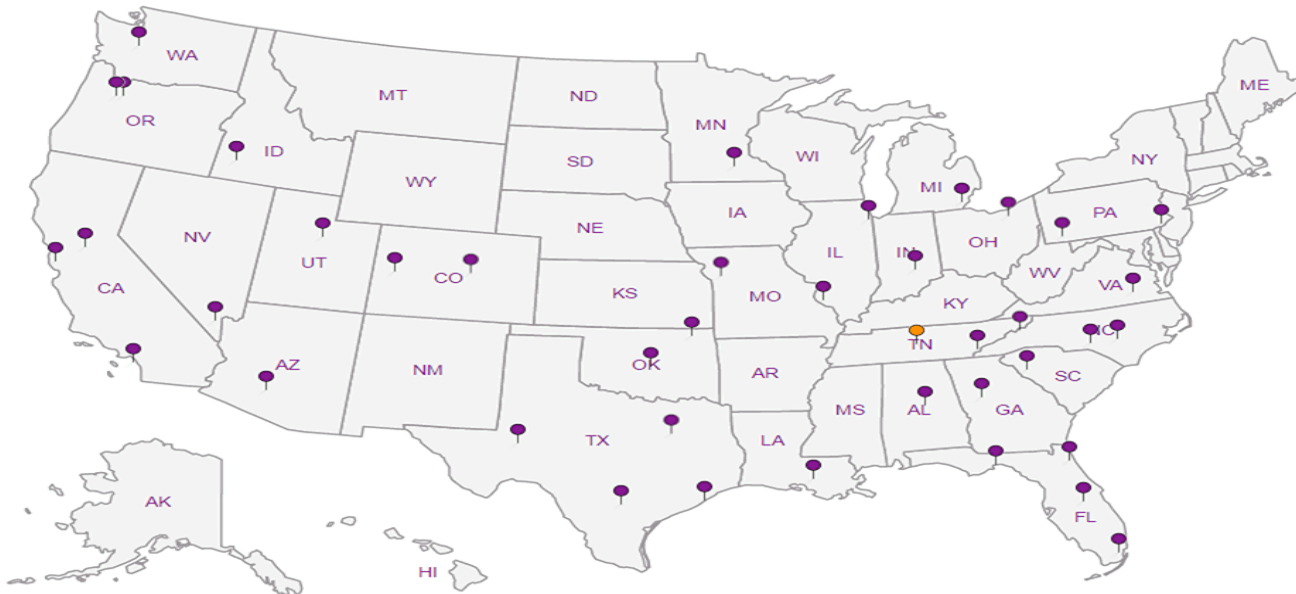
Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Report to:
Brian O'Neal/Bill Haldeman

Email To:
boneal@pesenv.com;baldeman@pesenv.com;sm

Project
Description: American Linen

City/State
Collected: Seattle, WA

Please Circle:
PT MT CT ET

Phone: 206-529-3980
Fax: 206-529-3985

Client Project #
1413.001.02.501E

Lab Project #
PESENVSWA-ALP

Collected by (print): Ben Hecht
Hannah Cohen

Site/Facility ID #
American Linen

P.O. #

Collected by (signature):
Hannah Cohen

Rush? (Lab MUST Be Notified)

Quote #

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
Cnts

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No of Cnts	*NO3,SO4,Cl 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlHDPE-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs LL 8260D 40mlAmb-HCl	Remarks	Sample # (lab only)
MW113-050120	Grab	GW	75	5/1/20	1050	9	X	X	X	X	X	X	X	HOLD	-01
MW-168-050120		GW	62		1055	12	X	X	X	X	X	X	X		02
MW-176-050120		GW	61.6		1055	12	X	X	X	X	X	X	X		03
MW-167-050120		GW	47		1220	12	X	X	X	X	X	X	X		04
MW-175-050120		GW	46.7		1225	12	X	X	X	X	X	X	X		05
MW-335-050120		GW	65		1300	9	X	X	X	X	X	X	X		06
MW-165-050120		GW	17.5		1335	12	X	X	X	X	X	X	X		07
MW-174-050120		GW	31.2		1350	12	X	X	X	X	X	X	X		08
MW-166-050120		GW	31.5		1446	12	X	X	X	X	X	X	X		09
MW-173-050120		GW	16.7		1505	12	X	X	X	X	X	X	X		09

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

Remarks: *Nitrate has a 48 hour holding time.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
UPS FedEx _____ Courier _____

Tracking # 1749 9996 9892

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) *[Signature]*
Date: 5-7-20 Time: 1630

Received by: (Signature) _____
Date: _____ Time: _____

Trip Blank Received: Yes/No
HCL MeOH
TBR
2

Relinquished by: (Signature) _____
Date: _____ Time: _____

Received by: (Signature) _____
Date: _____ Time: _____

Temp: 8.5 ± 0.2 = 87.114 °C
Bottles Received: 114
Date: 5-2-20 Time: 900

Relinquished by: (Signature) _____
Date: _____ Time: _____

Received for lab by: (Signature) *M Pappas*
Date: _____ Time: _____

Date: 5-2-20 Time: 900

If preservation required by Login: Date/Time
05-0007
Condition: NCF / OK

Face Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # 1214418
J019

Account: PESENVSWA
Template: T165314
Prelogin: P763877
PM: 110 - Brian Ford
PB:
Shipped Via:

PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Report to:
Brian O'Neal/Bill Haldeman

Project
Description: **American Linen**

Phone: **206-529-3980**
Fax: **206-529-3985**

Client Project #
1413.001.02.501E

Lab Project #
PESENVSWA-ALP

Collected by (print):
Brian Hacht/HRL

Site/Facility ID #
American Linen

P.O. #

Collected by (signature):
Brian Hacht

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
STAT

Immediately
Packed on Ice N Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
<i>TB-050120</i>	<i>-</i>	<i>GW</i>	<i>-</i>	<i>5-1-20</i>	<i>1630</i>	<i>2</i>
		<i>GW</i>				
		<i>GW</i>				
		<i>GW</i>				
		<i>GW</i>				
		<i>GW</i>				
		<i>GW</i>				
		<i>GW</i>				
		<i>GW</i>				
		<i>GW</i>				

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

Remarks: *Nitrate has a 48 hour holding time.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
 UPS FedEx Courier

Tracking # *1749 9996 9892*

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

Relinquished by: (Signature)
Brian Hacht

Relinquished by: (Signature)
A

Relinquished by: (Signature)

Date: *5-1-20* Time: *16:30*

Date: _____ Time: _____

Date: _____ Time: _____

Received by: (Signature)

Received by: (Signature)

Received for Lab by: (Signature)
M Pappas

Trip Blank Received: Yes No
 HCL/MeOH TBR

Temp: *8.5+2=8.7* °C
Bottles Received: *114*

Date: *5-2-20* Time: *900*

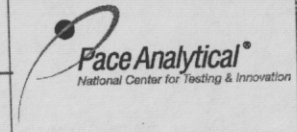
If preservation required by Login: Date/Time

Hold: _____ Condition: *NCR / OK*

Pres Chk

Analysis / Container / Preservative

Analysis / Container / Preservative	Pres Chk
*NO3,SO4,Cl 125mlHDPE-NoPres	
Alkalinity 125mlHDPE-NoPres	
EEM RSK175LL 40mlAmb-HCl	
NWTPHGX 40mlAmb HCl	
TOC 250mlHDPE-HCl	
Total Fe Mn 6020 250mlHDPE-HNO3	
VOCs LL 8260D 40mlAmb-HCl	



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



SDG # *1214619*

Table #

Acctnum: **PESENVSWA**

Template: **T165314**

Prelogin: **P763877**

PM: **110 - Brian Ford**

PB:

Shipped Via:

Remarks | Sample # (lab only)

10

Troy Dunlap



Login #: I214418	Client: PESENVSWA	Date:05/02	Evaluated by:Kelsey S
------------------	-------------------	------------	-----------------------

Non-Conformance (check applicable items)

Sample Integrity	Chain of Custody Clarification	If Broken Container:
Parameter(s) past holding time	Login Clarification Needed	Insufficient packing material around container
Temperature not in range	Chain of custody is incomplete	Insufficient packing material inside cooler
Improper container type	Please specify Metals requested.	Improper handling by carrier (FedEx / UPS / Courier)
pH not in range.	Please specify TCLP requested.	Sample was frozen
Insufficient sample volume.	Received additional samples not listed on coc.	Container lid not intact
Sample is biphasic.	Sample ids on containers do not match ids on coc	If no Chain of Custody:
Vials received with headspace.	Trip Blank not received.	Received by:
Broken container	Client did not "X" analysis.	Date/Time:
Broken container:	Chain of Custody is missing	Temp./Cont. Rec./pH:
Sufficient sample remains		Carrier:
		Tracking#

Login Comments: Received cooler with no ICE. Samples received at 8.7 Deg C. All samples logged due to presence of short holds

Client informed by:	Call	Email x	Voice Mail	Date:05/04/20	Time:1300
TSR Initials:bjf	Client Contact: PMs				

Login Instructions:

Proceed with the analysis on these samples.

Notice: This communication and any attached files may contain privileged or other confidential information. If you have received this in error, please contact the sender immediately via reply email and immediately delete the message and any attachments without copying or disclosing the contents. Thank you.

May 13, 2020

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: L1214576
Samples Received: 05/02/2020
Project Number: 1413.001.02.501B
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

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.



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Sr: Sample Results	6	3 Ss
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SAMPLE SUMMARY



MW-338-10 L1214576-01 Solid

Collected by Rachel McLaughlin Collected date/time 05/01/20 09:45 Received date/time 05/02/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1473914	1	05/12/20 17:25	05/12/20 17:34	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1473272	1	05/01/20 09:45	05/10/20 16:10	DWR	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

MW-338-15 L1214576-02 Solid

Collected by Rachel McLaughlin Collected date/time 05/01/20 10:00 Received date/time 05/02/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1473914	1	05/12/20 17:25	05/12/20 17:34	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1473272	1	05/01/20 10:00	05/10/20 16:29	DWR	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

MW-338-20 L1214576-03 Solid

Collected by Rachel McLaughlin Collected date/time 05/01/20 10:10 Received date/time 05/02/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1473914	1	05/12/20 17:25	05/12/20 17:34	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1473272	1	05/01/20 10:10	05/10/20 16:49	DWR	Mt. Juliet, TN

7 Gl

8 Al

9 Sc

MW-338-23 L1214576-04 Solid

Collected by Rachel McLaughlin Collected date/time 05/01/20 10:30 Received date/time 05/02/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1473914	1	05/12/20 17:25	05/12/20 17:34	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1473272	1	05/01/20 10:30	05/10/20 17:08	DWR	Mt. Juliet, TN

MW-338-28 L1214576-05 Solid

Collected by Rachel McLaughlin Collected date/time 05/01/20 10:32 Received date/time 05/02/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1473914	1	05/12/20 17:25	05/12/20 17:34	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1473272	1	05/01/20 10:32	05/10/20 17:27	DWR	Mt. Juliet, TN

MW-338-34 L1214576-06 Solid

Collected by Rachel McLaughlin Collected date/time 05/01/20 11:05 Received date/time 05/02/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1473914	1	05/12/20 17:25	05/12/20 17:34	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1473272	1	05/01/20 11:05	05/10/20 17:46	DWR	Mt. Juliet, TN

MW-338-39 L1214576-07 Solid

Collected by Rachel McLaughlin Collected date/time 05/01/20 11:07 Received date/time 05/02/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1473915	1	05/12/20 17:15	05/12/20 17:24	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1473272	1	05/01/20 11:07	05/10/20 18:05	DWR	Mt. Juliet, TN

SAMPLE SUMMARY

MW-338-41 L1214576-08 Solid

Collected by Rachel McLaughlin
 Collected date/time 05/01/20 11:45
 Received date/time 05/02/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1473915	1	05/12/20 17:15	05/12/20 17:24	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1473272	1	05/01/20 11:45	05/10/20 18:24	DWR	Mt. Juliet, TN

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

MW-338-45 L1214576-09 Solid

Collected by Rachel McLaughlin
 Collected date/time 05/01/20 11:47
 Received date/time 05/02/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1473915	1	05/12/20 17:15	05/12/20 17:24	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1473272	1	05/01/20 11:47	05/10/20 18:43	DWR	Mt. Juliet, TN

MW-338-51 L1214576-10 Solid

Collected by Rachel McLaughlin
 Collected date/time 05/01/20 12:05
 Received date/time 05/02/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1473915	1	05/12/20 17:15	05/12/20 17:24	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1473272	1	05/01/20 12:05	05/10/20 19:02	DWR	Mt. Juliet, TN

MW-338-55 L1214576-11 Solid

Collected by Rachel McLaughlin
 Collected date/time 05/01/20 12:07
 Received date/time 05/02/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1473915	1	05/12/20 17:15	05/12/20 17:24	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1473272	1	05/01/20 12:07	05/10/20 19:21	DWR	Mt. Juliet, TN



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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.5		1	05/12/2020 17:34	WG1473914

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0443	0.0606	1	05/10/2020 16:10	WG1473272
Acrylonitrile	U		0.00438	0.0152	1	05/10/2020 16:10	WG1473272
Benzene	U		0.000566	0.00121	1	05/10/2020 16:10	WG1473272
Bromobenzene	U		0.00109	0.0152	1	05/10/2020 16:10	WG1473272
Bromodichloromethane	U		0.000879	0.00303	1	05/10/2020 16:10	WG1473272
Bromochloromethane	U		0.000684	0.00606	1	05/10/2020 16:10	WG1473272
Bromoform	U		0.00142	0.0303	1	05/10/2020 16:10	WG1473272
Bromomethane	U		0.00239	0.0152	1	05/10/2020 16:10	WG1473272
n-Butylbenzene	U		0.00637	0.0152	1	05/10/2020 16:10	WG1473272
sec-Butylbenzene	U		0.00349	0.0152	1	05/10/2020 16:10	WG1473272
tert-Butylbenzene	U		0.00236	0.00606	1	05/10/2020 16:10	WG1473272
Carbon disulfide	U		0.000849	0.0152	1	05/10/2020 16:10	WG1473272
Carbon tetrachloride	U		0.00109	0.00606	1	05/10/2020 16:10	WG1473272
Chlorobenzene	U		0.000255	0.00303	1	05/10/2020 16:10	WG1473272
Chlorodibromomethane	U		0.000742	0.00303	1	05/10/2020 16:10	WG1473272
Chloroethane	U		0.00206	0.00606	1	05/10/2020 16:10	WG1473272
Chloroform	U		0.00125	0.00303	1	05/10/2020 16:10	WG1473272
Chloromethane	U		0.00528	0.0152	1	05/10/2020 16:10	WG1473272
2-Chlorotoluene	U		0.00105	0.00303	1	05/10/2020 16:10	WG1473272
4-Chlorotoluene	U		0.000546	0.00606	1	05/10/2020 16:10	WG1473272
1,2-Dibromo-3-Chloropropane	U		0.00473	0.0303	1	05/10/2020 16:10	WG1473272
1,2-Dibromoethane	U		0.000786	0.00303	1	05/10/2020 16:10	WG1473272
Dibromomethane	U		0.000910	0.00606	1	05/10/2020 16:10	WG1473272
1,2-Dichlorobenzene	U		0.000515	0.00606	1	05/10/2020 16:10	WG1473272
1,3-Dichlorobenzene	U		0.000728	0.00606	1	05/10/2020 16:10	WG1473272
1,4-Dichlorobenzene	U		0.000849	0.00606	1	05/10/2020 16:10	WG1473272
Dichlorodifluoromethane	U		0.00195	0.00303	1	05/10/2020 16:10	WG1473272
1,1-Dichloroethane	U		0.000595	0.00303	1	05/10/2020 16:10	WG1473272
1,2-Dichloroethane	U		0.000787	0.00303	1	05/10/2020 16:10	WG1473272
1,1-Dichloroethene	U		0.000735	0.00303	1	05/10/2020 16:10	WG1473272
cis-1,2-Dichloroethene	U		0.000890	0.00303	1	05/10/2020 16:10	WG1473272
trans-1,2-Dichloroethene	U		0.00126	0.00606	1	05/10/2020 16:10	WG1473272
1,2-Dichloropropane	U		0.00172	0.00606	1	05/10/2020 16:10	WG1473272
1,1-Dichloropropene	U		0.000981	0.00303	1	05/10/2020 16:10	WG1473272
1,3-Dichloropropane	U		0.000608	0.00606	1	05/10/2020 16:10	WG1473272
cis-1,3-Dichloropropene	U		0.000918	0.00303	1	05/10/2020 16:10	WG1473272
trans-1,3-Dichloropropene	U		0.00138	0.00606	1	05/10/2020 16:10	WG1473272
trans-1,4-Dichloro-2-butene	U		0.00226	0.00606	1	05/10/2020 16:10	WG1473272
2,2-Dichloropropane	U		0.00167	0.00303	1	05/10/2020 16:10	WG1473272
Di-isopropyl ether	U		0.000497	0.00121	1	05/10/2020 16:10	WG1473272
Ethylbenzene	U		0.000894	0.00303	1	05/10/2020 16:10	WG1473272
Hexachloro-1,3-butadiene	U		0.00728	0.0303	1	05/10/2020 16:10	WG1473272
2-Hexanone	U		0.00407	0.0303	1	05/10/2020 16:10	WG1473272
n-Hexane	U		0.00274	0.00606	1	05/10/2020 16:10	WG1473272
Iodomethane	U		0.00281	0.0152	1	05/10/2020 16:10	WG1473272
Isopropylbenzene	U		0.000515	0.00303	1	05/10/2020 16:10	WG1473272
p-Isopropyltoluene	U		0.00309	0.00606	1	05/10/2020 16:10	WG1473272
2-Butanone (MEK)	U		0.0770	0.121	1	05/10/2020 16:10	WG1473272
Methylene Chloride	U		0.00805	0.0303	1	05/10/2020 16:10	WG1473272
4-Methyl-2-pentanone (MIBK)	U		0.00277	0.0303	1	05/10/2020 16:10	WG1473272

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000424	0.00121	1	05/10/2020 16:10	WG1473272
Naphthalene	U		0.00592	0.0152	1	05/10/2020 16:10	WG1473272
n-Propylbenzene	U		0.00115	0.00606	1	05/10/2020 16:10	WG1473272
Styrene	U		0.000278	0.0152	1	05/10/2020 16:10	WG1473272
1,1,1,2-Tetrachloroethane	U		0.00115	0.00303	1	05/10/2020 16:10	WG1473272
1,1,2,2-Tetrachloroethane	U		0.000843	0.00303	1	05/10/2020 16:10	WG1473272
1,1,2-Trichlorotrifluoroethane	U		0.000914	0.00303	1	05/10/2020 16:10	WG1473272
Tetrachloroethene	U		0.00109	0.00303	1	05/10/2020 16:10	WG1473272
Toluene	U		0.00158	0.00606	1	05/10/2020 16:10	WG1473272
1,2,3-Trichlorobenzene	U		0.00889	0.0152	1	05/10/2020 16:10	WG1473272
1,2,4-Trichlorobenzene	U		0.00534	0.0152	1	05/10/2020 16:10	WG1473272
1,1,1-Trichloroethane	U		0.00112	0.00303	1	05/10/2020 16:10	WG1473272
1,1,2-Trichloroethane	U		0.000724	0.00303	1	05/10/2020 16:10	WG1473272
Trichloroethene	U		0.000708	0.00121	1	05/10/2020 16:10	WG1473272
Trichlorofluoromethane	U		0.00100	0.00303	1	05/10/2020 16:10	WG1473272
1,2,3-Trichloropropane	U		0.00196	0.0152	1	05/10/2020 16:10	WG1473272
1,2,4-Trimethylbenzene	U		0.00192	0.00606	1	05/10/2020 16:10	WG1473272
1,2,3-Trimethylbenzene	U		0.00192	0.00606	1	05/10/2020 16:10	WG1473272
1,3,5-Trimethylbenzene	U		0.00243	0.00606	1	05/10/2020 16:10	WG1473272
Vinyl acetate	U		0.00308	0.0152	1	05/10/2020 16:10	WG1473272
Vinyl chloride	U		0.00141	0.00303	1	05/10/2020 16:10	WG1473272
Xylenes, Total	U		0.00107	0.00788	1	05/10/2020 16:10	WG1473272
(S) Toluene-d8	100			75.0-131		05/10/2020 16:10	WG1473272
(S) 4-Bromofluorobenzene	95.3			67.0-138		05/10/2020 16:10	WG1473272
(S) 1,2-Dichloroethane-d4	103			70.0-130		05/10/2020 16:10	WG1473272

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.6		1	05/12/2020 17:34	WG1473914

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0483	0.0661	1	05/10/2020 16:29	WG1473272
Acrylonitrile	U		0.00477	0.0165	1	05/10/2020 16:29	WG1473272
Benzene	U		0.000618	0.00132	1	05/10/2020 16:29	WG1473272
Bromobenzene	U		0.00119	0.0165	1	05/10/2020 16:29	WG1473272
Bromodichloromethane	U		0.000959	0.00331	1	05/10/2020 16:29	WG1473272
Bromochloromethane	U		0.000746	0.00661	1	05/10/2020 16:29	WG1473272
Bromoform	U		0.00155	0.0331	1	05/10/2020 16:29	WG1473272
Bromomethane	U		0.00261	0.0165	1	05/10/2020 16:29	WG1473272
n-Butylbenzene	U		0.00694	0.0165	1	05/10/2020 16:29	WG1473272
sec-Butylbenzene	U		0.00381	0.0165	1	05/10/2020 16:29	WG1473272
tert-Butylbenzene	U		0.00258	0.00661	1	05/10/2020 16:29	WG1473272
Carbon disulfide	U		0.000926	0.0165	1	05/10/2020 16:29	WG1473272
Carbon tetrachloride	U		0.00119	0.00661	1	05/10/2020 16:29	WG1473272
Chlorobenzene	U		0.000278	0.00331	1	05/10/2020 16:29	WG1473272
Chlorodibromomethane	U		0.000809	0.00331	1	05/10/2020 16:29	WG1473272
Chloroethane	U		0.00225	0.00661	1	05/10/2020 16:29	WG1473272
Chloroform	U		0.00136	0.00331	1	05/10/2020 16:29	WG1473272
Chloromethane	U		0.00575	0.0165	1	05/10/2020 16:29	WG1473272
2-Chlorotoluene	U		0.00114	0.00331	1	05/10/2020 16:29	WG1473272
4-Chlorotoluene	U		0.000595	0.00661	1	05/10/2020 16:29	WG1473272
1,2-Dibromo-3-Chloropropane	U		0.00516	0.0331	1	05/10/2020 16:29	WG1473272
1,2-Dibromoethane	U		0.000857	0.00331	1	05/10/2020 16:29	WG1473272
Dibromomethane	U		0.000992	0.00661	1	05/10/2020 16:29	WG1473272
1,2-Dichlorobenzene	U		0.000562	0.00661	1	05/10/2020 16:29	WG1473272
1,3-Dichlorobenzene	U		0.000793	0.00661	1	05/10/2020 16:29	WG1473272
1,4-Dichlorobenzene	U		0.000926	0.00661	1	05/10/2020 16:29	WG1473272
Dichlorodifluoromethane	U		0.00213	0.00331	1	05/10/2020 16:29	WG1473272
1,1-Dichloroethane	U		0.000649	0.00331	1	05/10/2020 16:29	WG1473272
1,2-Dichloroethane	U		0.000858	0.00331	1	05/10/2020 16:29	WG1473272
1,1-Dichloroethene	U		0.000801	0.00331	1	05/10/2020 16:29	WG1473272
cis-1,2-Dichloroethene	U		0.000971	0.00331	1	05/10/2020 16:29	WG1473272
trans-1,2-Dichloroethene	U		0.00138	0.00661	1	05/10/2020 16:29	WG1473272
1,2-Dichloropropane	U		0.00188	0.00661	1	05/10/2020 16:29	WG1473272
1,1-Dichloropropene	U		0.00107	0.00331	1	05/10/2020 16:29	WG1473272
1,3-Dichloropropane	U		0.000663	0.00661	1	05/10/2020 16:29	WG1473272
cis-1,3-Dichloropropene	U		0.00100	0.00331	1	05/10/2020 16:29	WG1473272
trans-1,3-Dichloropropene	U		0.00151	0.00661	1	05/10/2020 16:29	WG1473272
trans-1,4-Dichloro-2-butene	U		0.00246	0.00661	1	05/10/2020 16:29	WG1473272
2,2-Dichloropropane	U		0.00182	0.00331	1	05/10/2020 16:29	WG1473272
Di-isopropyl ether	U		0.000542	0.00132	1	05/10/2020 16:29	WG1473272
Ethylbenzene	U		0.000975	0.00331	1	05/10/2020 16:29	WG1473272
Hexachloro-1,3-butadiene	U		0.00793	0.0331	1	05/10/2020 16:29	WG1473272
2-Hexanone	U		0.00444	0.0331	1	05/10/2020 16:29	WG1473272
n-Hexane	U		0.00299	0.00661	1	05/10/2020 16:29	WG1473272
Iodomethane	U		0.00307	0.0165	1	05/10/2020 16:29	WG1473272
Isopropylbenzene	U		0.000562	0.00331	1	05/10/2020 16:29	WG1473272
p-Isopropyltoluene	U		0.00337	0.00661	1	05/10/2020 16:29	WG1473272
2-Butanone (MEK)	U		0.0840	0.132	1	05/10/2020 16:29	WG1473272
Methylene Chloride	U		0.00878	0.0331	1	05/10/2020 16:29	WG1473272
4-Methyl-2-pentanone (MIBK)	U		0.00302	0.0331	1	05/10/2020 16:29	WG1473272

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000463	0.00132	1	05/10/2020 16:29	WG1473272
Naphthalene	U		0.00645	0.0165	1	05/10/2020 16:29	WG1473272
n-Propylbenzene	U		0.00126	0.00661	1	05/10/2020 16:29	WG1473272
Styrene	U		0.000303	0.0165	1	05/10/2020 16:29	WG1473272
1,1,1,2-Tetrachloroethane	U		0.00125	0.00331	1	05/10/2020 16:29	WG1473272
1,1,2,2-Tetrachloroethane	U		0.000919	0.00331	1	05/10/2020 16:29	WG1473272
1,1,2-Trichlorotrifluoroethane	U		0.000997	0.00331	1	05/10/2020 16:29	WG1473272
Tetrachloroethene	U		0.00118	0.00331	1	05/10/2020 16:29	WG1473272
Toluene	0.00262	J	0.00172	0.00661	1	05/10/2020 16:29	WG1473272
1,2,3-Trichlorobenzene	U		0.00969	0.0165	1	05/10/2020 16:29	WG1473272
1,2,4-Trichlorobenzene	U		0.00582	0.0165	1	05/10/2020 16:29	WG1473272
1,1,1-Trichloroethane	U		0.00122	0.00331	1	05/10/2020 16:29	WG1473272
1,1,2-Trichloroethane	U		0.000789	0.00331	1	05/10/2020 16:29	WG1473272
Trichloroethene	U		0.000772	0.00132	1	05/10/2020 16:29	WG1473272
Trichlorofluoromethane	U		0.00109	0.00331	1	05/10/2020 16:29	WG1473272
1,2,3-Trichloropropane	U		0.00214	0.0165	1	05/10/2020 16:29	WG1473272
1,2,4-Trimethylbenzene	U		0.00209	0.00661	1	05/10/2020 16:29	WG1473272
1,2,3-Trimethylbenzene	U		0.00209	0.00661	1	05/10/2020 16:29	WG1473272
1,3,5-Trimethylbenzene	U		0.00264	0.00661	1	05/10/2020 16:29	WG1473272
Vinyl acetate	U		0.00336	0.0165	1	05/10/2020 16:29	WG1473272
Vinyl chloride	U		0.00153	0.00331	1	05/10/2020 16:29	WG1473272
Xylenes, Total	U		0.00116	0.00860	1	05/10/2020 16:29	WG1473272
(S) Toluene-d8	99.7			75.0-131		05/10/2020 16:29	WG1473272
(S) 4-Bromofluorobenzene	98.8			67.0-138		05/10/2020 16:29	WG1473272
(S) 1,2-Dichloroethane-d4	103			70.0-130		05/10/2020 16:29	WG1473272

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.3		1	05/12/2020 17:34	WG1473914

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0423	0.0580	1	05/10/2020 16:49	WG1473272
Acrylonitrile	U		0.00418	0.0145	1	05/10/2020 16:49	WG1473272
Benzene	U		0.000541	0.00116	1	05/10/2020 16:49	WG1473272
Bromobenzene	U		0.00104	0.0145	1	05/10/2020 16:49	WG1473272
Bromodichloromethane	U		0.000840	0.00290	1	05/10/2020 16:49	WG1473272
Bromochloromethane	U		0.000654	0.00580	1	05/10/2020 16:49	WG1473272
Bromoform	U		0.00136	0.0290	1	05/10/2020 16:49	WG1473272
Bromomethane	U		0.00228	0.0145	1	05/10/2020 16:49	WG1473272
n-Butylbenzene	U		0.00608	0.0145	1	05/10/2020 16:49	WG1473272
sec-Butylbenzene	U		0.00334	0.0145	1	05/10/2020 16:49	WG1473272
tert-Butylbenzene	U		0.00226	0.00580	1	05/10/2020 16:49	WG1473272
Carbon disulfide	U		0.000811	0.0145	1	05/10/2020 16:49	WG1473272
Carbon tetrachloride	U		0.00104	0.00580	1	05/10/2020 16:49	WG1473272
Chlorobenzene	U		0.000243	0.00290	1	05/10/2020 16:49	WG1473272
Chlorodibromomethane	U		0.000709	0.00290	1	05/10/2020 16:49	WG1473272
Chloroethane	U		0.00197	0.00580	1	05/10/2020 16:49	WG1473272
Chloroform	U		0.00119	0.00290	1	05/10/2020 16:49	WG1473272
Chloromethane	U		0.00504	0.0145	1	05/10/2020 16:49	WG1473272
2-Chlorotoluene	U		0.00100	0.00290	1	05/10/2020 16:49	WG1473272
4-Chlorotoluene	U		0.000522	0.00580	1	05/10/2020 16:49	WG1473272
1,2-Dibromo-3-Chloropropane	U		0.00452	0.0290	1	05/10/2020 16:49	WG1473272
1,2-Dibromoethane	U		0.000751	0.00290	1	05/10/2020 16:49	WG1473272
Dibromomethane	U		0.000869	0.00580	1	05/10/2020 16:49	WG1473272
1,2-Dichlorobenzene	U		0.000493	0.00580	1	05/10/2020 16:49	WG1473272
1,3-Dichlorobenzene	U		0.000695	0.00580	1	05/10/2020 16:49	WG1473272
1,4-Dichlorobenzene	U		0.000811	0.00580	1	05/10/2020 16:49	WG1473272
Dichlorodifluoromethane	U		0.00187	0.00290	1	05/10/2020 16:49	WG1473272
1,1-Dichloroethane	U		0.000569	0.00290	1	05/10/2020 16:49	WG1473272
1,2-Dichloroethane	U		0.000752	0.00290	1	05/10/2020 16:49	WG1473272
1,1-Dichloroethene	U		0.000702	0.00290	1	05/10/2020 16:49	WG1473272
cis-1,2-Dichloroethene	U		0.000851	0.00290	1	05/10/2020 16:49	WG1473272
trans-1,2-Dichloroethene	U		0.00121	0.00580	1	05/10/2020 16:49	WG1473272
1,2-Dichloropropane	U		0.00165	0.00580	1	05/10/2020 16:49	WG1473272
1,1-Dichloropropene	U		0.000938	0.00290	1	05/10/2020 16:49	WG1473272
1,3-Dichloropropane	U		0.000581	0.00580	1	05/10/2020 16:49	WG1473272
cis-1,3-Dichloropropene	U		0.000877	0.00290	1	05/10/2020 16:49	WG1473272
trans-1,3-Dichloropropene	U		0.00132	0.00580	1	05/10/2020 16:49	WG1473272
trans-1,4-Dichloro-2-butene	U		0.00216	0.00580	1	05/10/2020 16:49	WG1473272
2,2-Dichloropropane	U		0.00160	0.00290	1	05/10/2020 16:49	WG1473272
Di-isopropyl ether	U		0.000475	0.00116	1	05/10/2020 16:49	WG1473272
Ethylbenzene	U		0.000854	0.00290	1	05/10/2020 16:49	WG1473272
Hexachloro-1,3-butadiene	U		0.00695	0.0290	1	05/10/2020 16:49	WG1473272
2-Hexanone	U		0.00389	0.0290	1	05/10/2020 16:49	WG1473272
n-Hexane	U		0.00262	0.00580	1	05/10/2020 16:49	WG1473272
Iodomethane	U		0.00269	0.0145	1	05/10/2020 16:49	WG1473272
Isopropylbenzene	U		0.000493	0.00290	1	05/10/2020 16:49	WG1473272
p-Isopropyltoluene	U		0.00296	0.00580	1	05/10/2020 16:49	WG1473272
2-Butanone (MEK)	U		0.0736	0.116	1	05/10/2020 16:49	WG1473272
Methylene Chloride	U		0.00770	0.0290	1	05/10/2020 16:49	WG1473272
4-Methyl-2-pentanone (MIBK)	U		0.00264	0.0290	1	05/10/2020 16:49	WG1473272

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000406	0.00116	1	05/10/2020 16:49	WG1473272
Naphthalene	U		0.00566	0.0145	1	05/10/2020 16:49	WG1473272
n-Propylbenzene	U		0.00110	0.00580	1	05/10/2020 16:49	WG1473272
Styrene	U		0.000265	0.0145	1	05/10/2020 16:49	WG1473272
1,1,1,2-Tetrachloroethane	U		0.00110	0.00290	1	05/10/2020 16:49	WG1473272
1,1,2,2-Tetrachloroethane	U		0.000806	0.00290	1	05/10/2020 16:49	WG1473272
1,1,2-Trichlorotrifluoroethane	U		0.000874	0.00290	1	05/10/2020 16:49	WG1473272
Tetrachloroethene	U		0.00104	0.00290	1	05/10/2020 16:49	WG1473272
Toluene	U		0.00151	0.00580	1	05/10/2020 16:49	WG1473272
1,2,3-Trichlorobenzene	U		0.00850	0.0145	1	05/10/2020 16:49	WG1473272
1,2,4-Trichlorobenzene	U		0.00510	0.0145	1	05/10/2020 16:49	WG1473272
1,1,1-Trichloroethane	U		0.00107	0.00290	1	05/10/2020 16:49	WG1473272
1,1,2-Trichloroethane	U		0.000692	0.00290	1	05/10/2020 16:49	WG1473272
Trichloroethene	U		0.000677	0.00116	1	05/10/2020 16:49	WG1473272
Trichlorofluoromethane	U		0.000959	0.00290	1	05/10/2020 16:49	WG1473272
1,2,3-Trichloropropane	U		0.00188	0.0145	1	05/10/2020 16:49	WG1473272
1,2,4-Trimethylbenzene	U		0.00183	0.00580	1	05/10/2020 16:49	WG1473272
1,2,3-Trimethylbenzene	U		0.00183	0.00580	1	05/10/2020 16:49	WG1473272
1,3,5-Trimethylbenzene	U		0.00232	0.00580	1	05/10/2020 16:49	WG1473272
Vinyl acetate	U		0.00294	0.0145	1	05/10/2020 16:49	WG1473272
Vinyl chloride	U		0.00134	0.00290	1	05/10/2020 16:49	WG1473272
Xylenes, Total	U		0.00102	0.00753	1	05/10/2020 16:49	WG1473272
(S) Toluene-d8	101			75.0-131		05/10/2020 16:49	WG1473272
(S) 4-Bromofluorobenzene	98.8			67.0-138		05/10/2020 16:49	WG1473272
(S) 1,2-Dichloroethane-d4	106			70.0-130		05/10/2020 16:49	WG1473272

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.7		1	05/12/2020 17:34	WG1473914

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0464	0.0635	1	05/10/2020 17:08	WG1473272
Acrylonitrile	U		0.00459	0.0159	1	05/10/2020 17:08	WG1473272
Benzene	U		0.000593	0.00127	1	05/10/2020 17:08	WG1473272
Bromobenzene	U		0.00114	0.0159	1	05/10/2020 17:08	WG1473272
Bromodichloromethane	U		0.000921	0.00318	1	05/10/2020 17:08	WG1473272
Bromochloromethane	U		0.000717	0.00635	1	05/10/2020 17:08	WG1473272
Bromoform	U		0.00149	0.0318	1	05/10/2020 17:08	WG1473272
Bromomethane	U		0.00250	0.0159	1	05/10/2020 17:08	WG1473272
n-Butylbenzene	U		0.00667	0.0159	1	05/10/2020 17:08	WG1473272
sec-Butylbenzene	U		0.00366	0.0159	1	05/10/2020 17:08	WG1473272
tert-Butylbenzene	U		0.00248	0.00635	1	05/10/2020 17:08	WG1473272
Carbon disulfide	U		0.000890	0.0159	1	05/10/2020 17:08	WG1473272
Carbon tetrachloride	U		0.00114	0.00635	1	05/10/2020 17:08	WG1473272
Chlorobenzene	U		0.000267	0.00318	1	05/10/2020 17:08	WG1473272
Chlorodibromomethane	U		0.000778	0.00318	1	05/10/2020 17:08	WG1473272
Chloroethane	U		0.00216	0.00635	1	05/10/2020 17:08	WG1473272
Chloroform	U		0.00131	0.00318	1	05/10/2020 17:08	WG1473272
Chloromethane	U		0.00553	0.0159	1	05/10/2020 17:08	WG1473272
2-Chlorotoluene	U		0.00110	0.00318	1	05/10/2020 17:08	WG1473272
4-Chlorotoluene	U		0.000572	0.00635	1	05/10/2020 17:08	WG1473272
1,2-Dibromo-3-Chloropropane	U		0.00496	0.0318	1	05/10/2020 17:08	WG1473272
1,2-Dibromoethane	U		0.000823	0.00318	1	05/10/2020 17:08	WG1473272
Dibromomethane	U		0.000953	0.00635	1	05/10/2020 17:08	WG1473272
1,2-Dichlorobenzene	U		0.000540	0.00635	1	05/10/2020 17:08	WG1473272
1,3-Dichlorobenzene	U		0.000762	0.00635	1	05/10/2020 17:08	WG1473272
1,4-Dichlorobenzene	U		0.000890	0.00635	1	05/10/2020 17:08	WG1473272
Dichlorodifluoromethane	U		0.00205	0.00318	1	05/10/2020 17:08	WG1473272
1,1-Dichloroethane	U		0.000624	0.00318	1	05/10/2020 17:08	WG1473272
1,2-Dichloroethane	U		0.000825	0.00318	1	05/10/2020 17:08	WG1473272
1,1-Dichloroethene	U		0.000770	0.00318	1	05/10/2020 17:08	WG1473272
cis-1,2-Dichloroethene	U		0.000933	0.00318	1	05/10/2020 17:08	WG1473272
trans-1,2-Dichloroethene	U		0.00132	0.00635	1	05/10/2020 17:08	WG1473272
1,2-Dichloropropane	U		0.00180	0.00635	1	05/10/2020 17:08	WG1473272
1,1-Dichloropropene	U		0.00103	0.00318	1	05/10/2020 17:08	WG1473272
1,3-Dichloropropane	U		0.000637	0.00635	1	05/10/2020 17:08	WG1473272
cis-1,3-Dichloropropene	U		0.000962	0.00318	1	05/10/2020 17:08	WG1473272
trans-1,3-Dichloropropene	U		0.00145	0.00635	1	05/10/2020 17:08	WG1473272
trans-1,4-Dichloro-2-butene	U		0.00236	0.00635	1	05/10/2020 17:08	WG1473272
2,2-Dichloropropane	U		0.00175	0.00318	1	05/10/2020 17:08	WG1473272
Di-isopropyl ether	U		0.000521	0.00127	1	05/10/2020 17:08	WG1473272
Ethylbenzene	U		0.000937	0.00318	1	05/10/2020 17:08	WG1473272
Hexachloro-1,3-butadiene	U		0.00762	0.0318	1	05/10/2020 17:08	WG1473272
2-Hexanone	U		0.00427	0.0318	1	05/10/2020 17:08	WG1473272
n-Hexane	U		0.00287	0.00635	1	05/10/2020 17:08	WG1473272
Iodomethane	U		0.00295	0.0159	1	05/10/2020 17:08	WG1473272
Isopropylbenzene	U		0.000540	0.00318	1	05/10/2020 17:08	WG1473272
p-Isopropyltoluene	U		0.00324	0.00635	1	05/10/2020 17:08	WG1473272
2-Butanone (MEK)	U		0.0807	0.127	1	05/10/2020 17:08	WG1473272
Methylene Chloride	U		0.00844	0.0318	1	05/10/2020 17:08	WG1473272
4-Methyl-2-pentanone (MIBK)	U		0.00290	0.0318	1	05/10/2020 17:08	WG1473272

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000445	0.00127	1	05/10/2020 17:08	WG1473272
Naphthalene	U		0.00620	0.0159	1	05/10/2020 17:08	WG1473272
n-Propylbenzene	U		0.00121	0.00635	1	05/10/2020 17:08	WG1473272
Styrene	U		0.000291	0.0159	1	05/10/2020 17:08	WG1473272
1,1,1,2-Tetrachloroethane	U		0.00120	0.00318	1	05/10/2020 17:08	WG1473272
1,1,2,2-Tetrachloroethane	U		0.000883	0.00318	1	05/10/2020 17:08	WG1473272
1,1,2-Trichlorotrifluoroethane	U		0.000958	0.00318	1	05/10/2020 17:08	WG1473272
Tetrachloroethene	U		0.00114	0.00318	1	05/10/2020 17:08	WG1473272
Toluene	U		0.00165	0.00635	1	05/10/2020 17:08	WG1473272
1,2,3-Trichlorobenzene	U		0.00931	0.0159	1	05/10/2020 17:08	WG1473272
1,2,4-Trichlorobenzene	U		0.00559	0.0159	1	05/10/2020 17:08	WG1473272
1,1,1-Trichloroethane	U		0.00117	0.00318	1	05/10/2020 17:08	WG1473272
1,1,2-Trichloroethane	U		0.000759	0.00318	1	05/10/2020 17:08	WG1473272
Trichloroethene	U		0.000742	0.00127	1	05/10/2020 17:08	WG1473272
Trichlorofluoromethane	U		0.00105	0.00318	1	05/10/2020 17:08	WG1473272
1,2,3-Trichloropropane	U		0.00206	0.0159	1	05/10/2020 17:08	WG1473272
1,2,4-Trimethylbenzene	U		0.00201	0.00635	1	05/10/2020 17:08	WG1473272
1,2,3-Trimethylbenzene	U		0.00201	0.00635	1	05/10/2020 17:08	WG1473272
1,3,5-Trimethylbenzene	U		0.00254	0.00635	1	05/10/2020 17:08	WG1473272
Vinyl acetate	U		0.00323	0.0159	1	05/10/2020 17:08	WG1473272
Vinyl chloride	U		0.00147	0.00318	1	05/10/2020 17:08	WG1473272
Xylenes, Total	U		0.00112	0.00826	1	05/10/2020 17:08	WG1473272
(S) Toluene-d8	103			75.0-131		05/10/2020 17:08	WG1473272
(S) 4-Bromofluorobenzene	99.6			67.0-138		05/10/2020 17:08	WG1473272
(S) 1,2-Dichloroethane-d4	105			70.0-130		05/10/2020 17:08	WG1473272

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.5		1	05/12/2020 17:34	WG1473914

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0459	0.0629	1	05/10/2020 17:27	WG1473272
Acrylonitrile	U		0.00454	0.0157	1	05/10/2020 17:27	WG1473272
Benzene	U		0.000587	0.00126	1	05/10/2020 17:27	WG1473272
Bromobenzene	U		0.00113	0.0157	1	05/10/2020 17:27	WG1473272
Bromodichloromethane	U		0.000912	0.00314	1	05/10/2020 17:27	WG1473272
Bromochloromethane	U		0.000709	0.00629	1	05/10/2020 17:27	WG1473272
Bromoform	U		0.00147	0.0314	1	05/10/2020 17:27	WG1473272
Bromomethane	U		0.00248	0.0157	1	05/10/2020 17:27	WG1473272
n-Butylbenzene	U		0.00660	0.0157	1	05/10/2020 17:27	WG1473272
sec-Butylbenzene	U		0.00362	0.0157	1	05/10/2020 17:27	WG1473272
tert-Butylbenzene	U		0.00245	0.00629	1	05/10/2020 17:27	WG1473272
Carbon disulfide	U		0.000880	0.0157	1	05/10/2020 17:27	WG1473272
Carbon tetrachloride	U		0.00113	0.00629	1	05/10/2020 17:27	WG1473272
Chlorobenzene	U		0.000264	0.00314	1	05/10/2020 17:27	WG1473272
Chlorodibromomethane	U		0.000770	0.00314	1	05/10/2020 17:27	WG1473272
Chloroethane	U		0.00214	0.00629	1	05/10/2020 17:27	WG1473272
Chloroform	U		0.00130	0.00314	1	05/10/2020 17:27	WG1473272
Chloromethane	U		0.00547	0.0157	1	05/10/2020 17:27	WG1473272
2-Chlorotoluene	U		0.00109	0.00314	1	05/10/2020 17:27	WG1473272
4-Chlorotoluene	U		0.000566	0.00629	1	05/10/2020 17:27	WG1473272
1,2-Dibromo-3-Chloropropane	U		0.00490	0.0314	1	05/10/2020 17:27	WG1473272
1,2-Dibromoethane	U		0.000815	0.00314	1	05/10/2020 17:27	WG1473272
Dibromomethane	U		0.000943	0.00629	1	05/10/2020 17:27	WG1473272
1,2-Dichlorobenzene	U		0.000534	0.00629	1	05/10/2020 17:27	WG1473272
1,3-Dichlorobenzene	U		0.000755	0.00629	1	05/10/2020 17:27	WG1473272
1,4-Dichlorobenzene	U		0.000880	0.00629	1	05/10/2020 17:27	WG1473272
Dichlorodifluoromethane	U		0.00202	0.00314	1	05/10/2020 17:27	WG1473272
1,1-Dichloroethane	U		0.000617	0.00314	1	05/10/2020 17:27	WG1473272
1,2-Dichloroethane	U		0.000816	0.00314	1	05/10/2020 17:27	WG1473272
1,1-Dichloroethene	U		0.000762	0.00314	1	05/10/2020 17:27	WG1473272
cis-1,2-Dichloroethene	U		0.000923	0.00314	1	05/10/2020 17:27	WG1473272
trans-1,2-Dichloroethene	U		0.00131	0.00629	1	05/10/2020 17:27	WG1473272
1,2-Dichloropropane	U		0.00179	0.00629	1	05/10/2020 17:27	WG1473272
1,1-Dichloropropene	U		0.00102	0.00314	1	05/10/2020 17:27	WG1473272
1,3-Dichloropropane	U		0.000630	0.00629	1	05/10/2020 17:27	WG1473272
cis-1,3-Dichloropropene	U		0.000952	0.00314	1	05/10/2020 17:27	WG1473272
trans-1,3-Dichloropropene	U		0.00143	0.00629	1	05/10/2020 17:27	WG1473272
trans-1,4-Dichloro-2-butene	U		0.00234	0.00629	1	05/10/2020 17:27	WG1473272
2,2-Dichloropropane	U		0.00174	0.00314	1	05/10/2020 17:27	WG1473272
Di-isopropyl ether	U		0.000516	0.00126	1	05/10/2020 17:27	WG1473272
Ethylbenzene	U		0.000927	0.00314	1	05/10/2020 17:27	WG1473272
Hexachloro-1,3-butadiene	U		0.00755	0.0314	1	05/10/2020 17:27	WG1473272
2-Hexanone	U		0.00423	0.0314	1	05/10/2020 17:27	WG1473272
n-Hexane	U		0.00284	0.00629	1	05/10/2020 17:27	WG1473272
Iodomethane	U		0.00292	0.0157	1	05/10/2020 17:27	WG1473272
Isopropylbenzene	U		0.000534	0.00314	1	05/10/2020 17:27	WG1473272
p-Isopropyltoluene	U		0.00321	0.00629	1	05/10/2020 17:27	WG1473272
2-Butanone (MEK)	U		0.0799	0.126	1	05/10/2020 17:27	WG1473272
Methylene Chloride	U		0.00835	0.0314	1	05/10/2020 17:27	WG1473272
4-Methyl-2-pentanone (MIBK)	U		0.00287	0.0314	1	05/10/2020 17:27	WG1473272

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000440	0.00126	1	05/10/2020 17:27	WG1473272
Naphthalene	U		0.00614	0.0157	1	05/10/2020 17:27	WG1473272
n-Propylbenzene	U		0.00119	0.00629	1	05/10/2020 17:27	WG1473272
Styrene	U		0.000288	0.0157	1	05/10/2020 17:27	WG1473272
1,1,1,2-Tetrachloroethane	U		0.00119	0.00314	1	05/10/2020 17:27	WG1473272
1,1,2,2-Tetrachloroethane	U		0.000874	0.00314	1	05/10/2020 17:27	WG1473272
1,1,2-Trichlorotrifluoroethane	U		0.000948	0.00314	1	05/10/2020 17:27	WG1473272
Tetrachloroethene	U		0.00113	0.00314	1	05/10/2020 17:27	WG1473272
Toluene	U		0.00163	0.00629	1	05/10/2020 17:27	WG1473272
1,2,3-Trichlorobenzene	U		0.00922	0.0157	1	05/10/2020 17:27	WG1473272
1,2,4-Trichlorobenzene	U		0.00553	0.0157	1	05/10/2020 17:27	WG1473272
1,1,1-Trichloroethane	U		0.00116	0.00314	1	05/10/2020 17:27	WG1473272
1,1,2-Trichloroethane	U		0.000751	0.00314	1	05/10/2020 17:27	WG1473272
Trichloroethene	U		0.000734	0.00126	1	05/10/2020 17:27	WG1473272
Trichlorofluoromethane	U		0.00104	0.00314	1	05/10/2020 17:27	WG1473272
1,2,3-Trichloropropane	U		0.00204	0.0157	1	05/10/2020 17:27	WG1473272
1,2,4-Trimethylbenzene	U		0.00199	0.00629	1	05/10/2020 17:27	WG1473272
1,2,3-Trimethylbenzene	U		0.00199	0.00629	1	05/10/2020 17:27	WG1473272
1,3,5-Trimethylbenzene	U		0.00252	0.00629	1	05/10/2020 17:27	WG1473272
Vinyl acetate	U		0.00319	0.0157	1	05/10/2020 17:27	WG1473272
Vinyl chloride	U		0.00146	0.00314	1	05/10/2020 17:27	WG1473272
Xylenes, Total	U		0.00111	0.00817	1	05/10/2020 17:27	WG1473272
(S) Toluene-d8	97.9			75.0-131		05/10/2020 17:27	WG1473272
(S) 4-Bromofluorobenzene	98.7			67.0-138		05/10/2020 17:27	WG1473272
(S) 1,2-Dichloroethane-d4	101			70.0-130		05/10/2020 17:27	WG1473272

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.5		1	05/12/2020 17:34	WG1473914

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0408	0.0559	1	05/10/2020 17:46	WG1473272
Acrylonitrile	U		0.00403	0.0140	1	05/10/2020 17:46	WG1473272
Benzene	0.000782	J	0.000522	0.00112	1	05/10/2020 17:46	WG1473272
Bromobenzene	U		0.00101	0.0140	1	05/10/2020 17:46	WG1473272
Bromodichloromethane	U		0.000810	0.00279	1	05/10/2020 17:46	WG1473272
Bromochloromethane	U		0.000630	0.00559	1	05/10/2020 17:46	WG1473272
Bromoform	U		0.00131	0.0279	1	05/10/2020 17:46	WG1473272
Bromomethane	U		0.00220	0.0140	1	05/10/2020 17:46	WG1473272
n-Butylbenzene	U		0.00587	0.0140	1	05/10/2020 17:46	WG1473272
sec-Butylbenzene	U		0.00322	0.0140	1	05/10/2020 17:46	WG1473272
tert-Butylbenzene	U		0.00218	0.00559	1	05/10/2020 17:46	WG1473272
Carbon disulfide	0.00182	J	0.000782	0.0140	1	05/10/2020 17:46	WG1473272
Carbon tetrachloride	U		0.00100	0.00559	1	05/10/2020 17:46	WG1473272
Chlorobenzene	U		0.000235	0.00279	1	05/10/2020 17:46	WG1473272
Chlorodibromomethane	U		0.000684	0.00279	1	05/10/2020 17:46	WG1473272
Chloroethane	U		0.00190	0.00559	1	05/10/2020 17:46	WG1473272
Chloroform	U		0.00115	0.00279	1	05/10/2020 17:46	WG1473272
Chloromethane	U		0.00486	0.0140	1	05/10/2020 17:46	WG1473272
2-Chlorotoluene	U		0.000967	0.00279	1	05/10/2020 17:46	WG1473272
4-Chlorotoluene	U		0.000503	0.00559	1	05/10/2020 17:46	WG1473272
1,2-Dibromo-3-Chloropropane	U		0.00436	0.0279	1	05/10/2020 17:46	WG1473272
1,2-Dibromoethane	U		0.000724	0.00279	1	05/10/2020 17:46	WG1473272
Dibromomethane	U		0.000838	0.00559	1	05/10/2020 17:46	WG1473272
1,2-Dichlorobenzene	U		0.000475	0.00559	1	05/10/2020 17:46	WG1473272
1,3-Dichlorobenzene	U		0.000671	0.00559	1	05/10/2020 17:46	WG1473272
1,4-Dichlorobenzene	U		0.000782	0.00559	1	05/10/2020 17:46	WG1473272
Dichlorodifluoromethane	U		0.00180	0.00279	1	05/10/2020 17:46	WG1473272
1,1-Dichloroethane	U		0.000549	0.00279	1	05/10/2020 17:46	WG1473272
1,2-Dichloroethane	U		0.000725	0.00279	1	05/10/2020 17:46	WG1473272
1,1-Dichloroethene	U		0.000677	0.00279	1	05/10/2020 17:46	WG1473272
cis-1,2-Dichloroethene	U		0.000820	0.00279	1	05/10/2020 17:46	WG1473272
trans-1,2-Dichloroethene	U		0.00116	0.00559	1	05/10/2020 17:46	WG1473272
1,2-Dichloropropane	U		0.00159	0.00559	1	05/10/2020 17:46	WG1473272
1,1-Dichloropropene	U		0.000904	0.00279	1	05/10/2020 17:46	WG1473272
1,3-Dichloropropane	U		0.000560	0.00559	1	05/10/2020 17:46	WG1473272
cis-1,3-Dichloropropene	U		0.000846	0.00279	1	05/10/2020 17:46	WG1473272
trans-1,3-Dichloropropene	U		0.00127	0.00559	1	05/10/2020 17:46	WG1473272
trans-1,4-Dichloro-2-butene	U		0.00208	0.00559	1	05/10/2020 17:46	WG1473272
2,2-Dichloropropane	U		0.00154	0.00279	1	05/10/2020 17:46	WG1473272
Di-isopropyl ether	U		0.000458	0.00112	1	05/10/2020 17:46	WG1473272
Ethylbenzene	U		0.000824	0.00279	1	05/10/2020 17:46	WG1473272
Hexachloro-1,3-butadiene	U		0.00671	0.0279	1	05/10/2020 17:46	WG1473272
2-Hexanone	U		0.00376	0.0279	1	05/10/2020 17:46	WG1473272
n-Hexane	U		0.00253	0.00559	1	05/10/2020 17:46	WG1473272
Iodomethane	U		0.00259	0.0140	1	05/10/2020 17:46	WG1473272
Isopropylbenzene	U		0.000475	0.00279	1	05/10/2020 17:46	WG1473272
p-Isopropyltoluene	U		0.00285	0.00559	1	05/10/2020 17:46	WG1473272
2-Butanone (MEK)	U		0.0710	0.112	1	05/10/2020 17:46	WG1473272
Methylene Chloride	U		0.00742	0.0279	1	05/10/2020 17:46	WG1473272
4-Methyl-2-pentanone (MIBK)	U		0.00255	0.0279	1	05/10/2020 17:46	WG1473272

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000391	0.00112	1	05/10/2020 17:46	WG1473272
Naphthalene	U		0.00545	0.0140	1	05/10/2020 17:46	WG1473272
n-Propylbenzene	U		0.00106	0.00559	1	05/10/2020 17:46	WG1473272
Styrene	U		0.000256	0.0140	1	05/10/2020 17:46	WG1473272
1,1,1,2-Tetrachloroethane	U		0.00106	0.00279	1	05/10/2020 17:46	WG1473272
1,1,2,2-Tetrachloroethane	U		0.000777	0.00279	1	05/10/2020 17:46	WG1473272
1,1,2-Trichlorotrifluoroethane	U		0.000843	0.00279	1	05/10/2020 17:46	WG1473272
Tetrachloroethene	U		0.00100	0.00279	1	05/10/2020 17:46	WG1473272
Toluene	0.00219	J	0.00145	0.00559	1	05/10/2020 17:46	WG1473272
1,2,3-Trichlorobenzene	U		0.00819	0.0140	1	05/10/2020 17:46	WG1473272
1,2,4-Trichlorobenzene	U		0.00492	0.0140	1	05/10/2020 17:46	WG1473272
1,1,1-Trichloroethane	U		0.00103	0.00279	1	05/10/2020 17:46	WG1473272
1,1,2-Trichloroethane	U		0.000667	0.00279	1	05/10/2020 17:46	WG1473272
Trichloroethene	U		0.000653	0.00112	1	05/10/2020 17:46	WG1473272
Trichlorofluoromethane	U		0.000924	0.00279	1	05/10/2020 17:46	WG1473272
1,2,3-Trichloropropane	U		0.00181	0.0140	1	05/10/2020 17:46	WG1473272
1,2,4-Trimethylbenzene	0.00182	J	0.00177	0.00559	1	05/10/2020 17:46	WG1473272
1,2,3-Trimethylbenzene	U		0.00177	0.00559	1	05/10/2020 17:46	WG1473272
1,3,5-Trimethylbenzene	U		0.00224	0.00559	1	05/10/2020 17:46	WG1473272
Vinyl acetate	U		0.00284	0.0140	1	05/10/2020 17:46	WG1473272
Vinyl chloride	U		0.00130	0.00279	1	05/10/2020 17:46	WG1473272
Xylenes, Total	0.00329	J	0.000984	0.00726	1	05/10/2020 17:46	WG1473272
(S) Toluene-d8	97.9			75.0-131		05/10/2020 17:46	WG1473272
(S) 4-Bromofluorobenzene	101			67.0-138		05/10/2020 17:46	WG1473272
(S) 1,2-Dichloroethane-d4	106			70.0-130		05/10/2020 17:46	WG1473272

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.6		1	05/12/2020 17:24	WG1473915

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0442	0.0606	1	05/10/2020 18:05	WG1473272
Acrylonitrile	U		0.00437	0.0151	1	05/10/2020 18:05	WG1473272
Benzene	U		0.000566	0.00121	1	05/10/2020 18:05	WG1473272
Bromobenzene	U		0.00109	0.0151	1	05/10/2020 18:05	WG1473272
Bromodichloromethane	U		0.000878	0.00303	1	05/10/2020 18:05	WG1473272
Bromochloromethane	U		0.000683	0.00606	1	05/10/2020 18:05	WG1473272
Bromoform	U		0.00142	0.0303	1	05/10/2020 18:05	WG1473272
Bromomethane	U		0.00239	0.0151	1	05/10/2020 18:05	WG1473272
n-Butylbenzene	U		0.00636	0.0151	1	05/10/2020 18:05	WG1473272
sec-Butylbenzene	U		0.00349	0.0151	1	05/10/2020 18:05	WG1473272
tert-Butylbenzene	U		0.00236	0.00606	1	05/10/2020 18:05	WG1473272
Carbon disulfide	U		0.000848	0.0151	1	05/10/2020 18:05	WG1473272
Carbon tetrachloride	U		0.00109	0.00606	1	05/10/2020 18:05	WG1473272
Chlorobenzene	U		0.000254	0.00303	1	05/10/2020 18:05	WG1473272
Chlorodibromomethane	U		0.000741	0.00303	1	05/10/2020 18:05	WG1473272
Chloroethane	U		0.00206	0.00606	1	05/10/2020 18:05	WG1473272
Chloroform	U		0.00125	0.00303	1	05/10/2020 18:05	WG1473272
Chloromethane	U		0.00527	0.0151	1	05/10/2020 18:05	WG1473272
2-Chlorotoluene	U		0.00105	0.00303	1	05/10/2020 18:05	WG1473272
4-Chlorotoluene	U		0.000545	0.00606	1	05/10/2020 18:05	WG1473272
1,2-Dibromo-3-Chloropropane	U		0.00472	0.0303	1	05/10/2020 18:05	WG1473272
1,2-Dibromoethane	U		0.000785	0.00303	1	05/10/2020 18:05	WG1473272
Dibromomethane	U		0.000908	0.00606	1	05/10/2020 18:05	WG1473272
1,2-Dichlorobenzene	U		0.000515	0.00606	1	05/10/2020 18:05	WG1473272
1,3-Dichlorobenzene	U		0.000727	0.00606	1	05/10/2020 18:05	WG1473272
1,4-Dichlorobenzene	U		0.000848	0.00606	1	05/10/2020 18:05	WG1473272
Dichlorodifluoromethane	U		0.00195	0.00303	1	05/10/2020 18:05	WG1473272
1,1-Dichloroethane	U		0.000595	0.00303	1	05/10/2020 18:05	WG1473272
1,2-Dichloroethane	U		0.000786	0.00303	1	05/10/2020 18:05	WG1473272
1,1-Dichloroethene	U		0.000734	0.00303	1	05/10/2020 18:05	WG1473272
cis-1,2-Dichloroethene	U		0.000889	0.00303	1	05/10/2020 18:05	WG1473272
trans-1,2-Dichloroethene	U		0.00126	0.00606	1	05/10/2020 18:05	WG1473272
1,2-Dichloropropane	U		0.00172	0.00606	1	05/10/2020 18:05	WG1473272
1,1-Dichloropropene	U		0.000980	0.00303	1	05/10/2020 18:05	WG1473272
1,3-Dichloropropane	U		0.000607	0.00606	1	05/10/2020 18:05	WG1473272
cis-1,3-Dichloropropene	U		0.000917	0.00303	1	05/10/2020 18:05	WG1473272
trans-1,3-Dichloropropene	U		0.00138	0.00606	1	05/10/2020 18:05	WG1473272
trans-1,4-Dichloro-2-butene	U		0.00225	0.00606	1	05/10/2020 18:05	WG1473272
2,2-Dichloropropane	U		0.00167	0.00303	1	05/10/2020 18:05	WG1473272
Di-isopropyl ether	U		0.000497	0.00121	1	05/10/2020 18:05	WG1473272
Ethylbenzene	U		0.000893	0.00303	1	05/10/2020 18:05	WG1473272
Hexachloro-1,3-butadiene	U		0.00727	0.0303	1	05/10/2020 18:05	WG1473272
2-Hexanone	U		0.00407	0.0303	1	05/10/2020 18:05	WG1473272
n-Hexane	U		0.00274	0.00606	1	05/10/2020 18:05	WG1473272
Iodomethane	U		0.00281	0.0151	1	05/10/2020 18:05	WG1473272
Isopropylbenzene	U		0.000515	0.00303	1	05/10/2020 18:05	WG1473272
p-Isopropyltoluene	U		0.00309	0.00606	1	05/10/2020 18:05	WG1473272
2-Butanone (MEK)	U		0.0769	0.121	1	05/10/2020 18:05	WG1473272
Methylene Chloride	U		0.00804	0.0303	1	05/10/2020 18:05	WG1473272
4-Methyl-2-pentanone (MIBK)	U		0.00276	0.0303	1	05/10/2020 18:05	WG1473272

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000424	0.00121	1	05/10/2020 18:05	WG1473272
Naphthalene	U		0.00591	0.0151	1	05/10/2020 18:05	WG1473272
n-Propylbenzene	U		0.00115	0.00606	1	05/10/2020 18:05	WG1473272
Styrene	U		0.000277	0.0151	1	05/10/2020 18:05	WG1473272
1,1,1,2-Tetrachloroethane	U		0.00115	0.00303	1	05/10/2020 18:05	WG1473272
1,1,2,2-Tetrachloroethane	U		0.000842	0.00303	1	05/10/2020 18:05	WG1473272
1,1,2-Trichlorotrifluoroethane	U		0.000913	0.00303	1	05/10/2020 18:05	WG1473272
Tetrachloroethene	U		0.00109	0.00303	1	05/10/2020 18:05	WG1473272
Toluene	U		0.00157	0.00606	1	05/10/2020 18:05	WG1473272
1,2,3-Trichlorobenzene	U		0.00888	0.0151	1	05/10/2020 18:05	WG1473272
1,2,4-Trichlorobenzene	U		0.00533	0.0151	1	05/10/2020 18:05	WG1473272
1,1,1-Trichloroethane	U		0.00112	0.00303	1	05/10/2020 18:05	WG1473272
1,1,2-Trichloroethane	U		0.000723	0.00303	1	05/10/2020 18:05	WG1473272
Trichloroethene	U		0.000707	0.00121	1	05/10/2020 18:05	WG1473272
Trichlorofluoromethane	U		0.00100	0.00303	1	05/10/2020 18:05	WG1473272
1,2,3-Trichloropropane	U		0.00196	0.0151	1	05/10/2020 18:05	WG1473272
1,2,4-Trimethylbenzene	U		0.00191	0.00606	1	05/10/2020 18:05	WG1473272
1,2,3-Trimethylbenzene	U		0.00191	0.00606	1	05/10/2020 18:05	WG1473272
1,3,5-Trimethylbenzene	U		0.00242	0.00606	1	05/10/2020 18:05	WG1473272
Vinyl acetate	U		0.00308	0.0151	1	05/10/2020 18:05	WG1473272
Vinyl chloride	U		0.00140	0.00303	1	05/10/2020 18:05	WG1473272
Xylenes, Total	U		0.00107	0.00787	1	05/10/2020 18:05	WG1473272
(S) Toluene-d8	102			75.0-131		05/10/2020 18:05	WG1473272
(S) 4-Bromofluorobenzene	96.9			67.0-138		05/10/2020 18:05	WG1473272
(S) 1,2-Dichloroethane-d4	102			70.0-130		05/10/2020 18:05	WG1473272

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.1		1	05/12/2020 17:24	WG1473915

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0450	0.0616	1	05/10/2020 18:24	WG1473272
Acrylonitrile	U		0.00445	0.0154	1	05/10/2020 18:24	WG1473272
Benzene	U		0.000576	0.00123	1	05/10/2020 18:24	WG1473272
Bromobenzene	U		0.00111	0.0154	1	05/10/2020 18:24	WG1473272
Bromodichloromethane	U		0.000894	0.00308	1	05/10/2020 18:24	WG1473272
Bromochloromethane	U		0.000695	0.00616	1	05/10/2020 18:24	WG1473272
Bromoform	U		0.00144	0.0308	1	05/10/2020 18:24	WG1473272
Bromomethane	U		0.00243	0.0154	1	05/10/2020 18:24	WG1473272
n-Butylbenzene	U		0.00647	0.0154	1	05/10/2020 18:24	WG1473272
sec-Butylbenzene	U		0.00355	0.0154	1	05/10/2020 18:24	WG1473272
tert-Butylbenzene	U		0.00240	0.00616	1	05/10/2020 18:24	WG1473272
Carbon disulfide	U		0.000863	0.0154	1	05/10/2020 18:24	WG1473272
Carbon tetrachloride	U		0.00111	0.00616	1	05/10/2020 18:24	WG1473272
Chlorobenzene	U		0.000259	0.00308	1	05/10/2020 18:24	WG1473272
Chlorodibromomethane	U		0.000754	0.00308	1	05/10/2020 18:24	WG1473272
Chloroethane	U		0.00210	0.00616	1	05/10/2020 18:24	WG1473272
Chloroform	U		0.00127	0.00308	1	05/10/2020 18:24	WG1473272
Chloromethane	U		0.00536	0.0154	1	05/10/2020 18:24	WG1473272
2-Chlorotoluene	U		0.00107	0.00308	1	05/10/2020 18:24	WG1473272
4-Chlorotoluene	U		0.000555	0.00616	1	05/10/2020 18:24	WG1473272
1,2-Dibromo-3-Chloropropane	U		0.00481	0.0308	1	05/10/2020 18:24	WG1473272
1,2-Dibromoethane	U		0.000799	0.00308	1	05/10/2020 18:24	WG1473272
Dibromomethane	U		0.000925	0.00616	1	05/10/2020 18:24	WG1473272
1,2-Dichlorobenzene	U		0.000524	0.00616	1	05/10/2020 18:24	WG1473272
1,3-Dichlorobenzene	U		0.000740	0.00616	1	05/10/2020 18:24	WG1473272
1,4-Dichlorobenzene	U		0.000863	0.00616	1	05/10/2020 18:24	WG1473272
Dichlorodifluoromethane	U		0.00198	0.00308	1	05/10/2020 18:24	WG1473272
1,1-Dichloroethane	U		0.000605	0.00308	1	05/10/2020 18:24	WG1473272
1,2-Dichloroethane	U		0.000800	0.00308	1	05/10/2020 18:24	WG1473272
1,1-Dichloroethene	U		0.000747	0.00308	1	05/10/2020 18:24	WG1473272
cis-1,2-Dichloroethene	U		0.000905	0.00308	1	05/10/2020 18:24	WG1473272
trans-1,2-Dichloroethene	U		0.00128	0.00616	1	05/10/2020 18:24	WG1473272
1,2-Dichloropropane	U		0.00175	0.00616	1	05/10/2020 18:24	WG1473272
1,1-Dichloropropene	U		0.000997	0.00308	1	05/10/2020 18:24	WG1473272
1,3-Dichloropropane	U		0.000618	0.00616	1	05/10/2020 18:24	WG1473272
cis-1,3-Dichloropropene	U		0.000933	0.00308	1	05/10/2020 18:24	WG1473272
trans-1,3-Dichloropropene	U		0.00141	0.00616	1	05/10/2020 18:24	WG1473272
trans-1,4-Dichloro-2-butene	U		0.00229	0.00616	1	05/10/2020 18:24	WG1473272
2,2-Dichloropropane	U		0.00170	0.00308	1	05/10/2020 18:24	WG1473272
Di-isopropyl ether	U		0.000505	0.00123	1	05/10/2020 18:24	WG1473272
Ethylbenzene	U		0.000909	0.00308	1	05/10/2020 18:24	WG1473272
Hexachloro-1,3-butadiene	U		0.00740	0.0308	1	05/10/2020 18:24	WG1473272
2-Hexanone	U		0.00414	0.0308	1	05/10/2020 18:24	WG1473272
n-Hexane	U		0.00279	0.00616	1	05/10/2020 18:24	WG1473272
Iodomethane	U		0.00286	0.0154	1	05/10/2020 18:24	WG1473272
Isopropylbenzene	U		0.000524	0.00308	1	05/10/2020 18:24	WG1473272
p-Isopropyltoluene	U		0.00314	0.00616	1	05/10/2020 18:24	WG1473272
2-Butanone (MEK)	U		0.0783	0.123	1	05/10/2020 18:24	WG1473272
Methylene Chloride	U		0.00819	0.0308	1	05/10/2020 18:24	WG1473272
4-Methyl-2-pentanone (MIBK)	U		0.00281	0.0308	1	05/10/2020 18:24	WG1473272

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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000431	0.00123	1	05/10/2020 18:24	WG1473272
Naphthalene	U		0.00602	0.0154	1	05/10/2020 18:24	WG1473272
n-Propylbenzene	U		0.00117	0.00616	1	05/10/2020 18:24	WG1473272
Styrene	U		0.000282	0.0154	1	05/10/2020 18:24	WG1473272
1,1,1,2-Tetrachloroethane	U		0.00117	0.00308	1	05/10/2020 18:24	WG1473272
1,1,2,2-Tetrachloroethane	U		0.000857	0.00308	1	05/10/2020 18:24	WG1473272
1,1,2-Trichlorotrifluoroethane	U		0.000930	0.00308	1	05/10/2020 18:24	WG1473272
Tetrachloroethene	U		0.00110	0.00308	1	05/10/2020 18:24	WG1473272
Toluene	U		0.00160	0.00616	1	05/10/2020 18:24	WG1473272
1,2,3-Trichlorobenzene	U		0.00904	0.0154	1	05/10/2020 18:24	WG1473272
1,2,4-Trichlorobenzene	U		0.00542	0.0154	1	05/10/2020 18:24	WG1473272
1,1,1-Trichloroethane	U		0.00114	0.00308	1	05/10/2020 18:24	WG1473272
1,1,2-Trichloroethane	U		0.000736	0.00308	1	05/10/2020 18:24	WG1473272
Trichloroethene	U		0.000720	0.00123	1	05/10/2020 18:24	WG1473272
Trichlorofluoromethane	U		0.00102	0.00308	1	05/10/2020 18:24	WG1473272
1,2,3-Trichloropropane	U		0.00200	0.0154	1	05/10/2020 18:24	WG1473272
1,2,4-Trimethylbenzene	U		0.00195	0.00616	1	05/10/2020 18:24	WG1473272
1,2,3-Trimethylbenzene	U		0.00195	0.00616	1	05/10/2020 18:24	WG1473272
1,3,5-Trimethylbenzene	U		0.00247	0.00616	1	05/10/2020 18:24	WG1473272
Vinyl acetate	U		0.00313	0.0154	1	05/10/2020 18:24	WG1473272
Vinyl chloride	U		0.00143	0.00308	1	05/10/2020 18:24	WG1473272
Xylenes, Total	U		0.00108	0.00801	1	05/10/2020 18:24	WG1473272
(S) Toluene-d8	99.2			75.0-131		05/10/2020 18:24	WG1473272
(S) 4-Bromofluorobenzene	100			67.0-138		05/10/2020 18:24	WG1473272
(S) 1,2-Dichloroethane-d4	108			70.0-130		05/10/2020 18:24	WG1473272

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.9		1	05/12/2020 17:24	WG1473915

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0446	0.0610	1	05/10/2020 18:43	WG1473272
Acrylonitrile	U		0.00441	0.0153	1	05/10/2020 18:43	WG1473272
Benzene	U		0.000570	0.00122	1	05/10/2020 18:43	WG1473272
Bromobenzene	U		0.00110	0.0153	1	05/10/2020 18:43	WG1473272
Bromodichloromethane	U		0.000885	0.00305	1	05/10/2020 18:43	WG1473272
Bromochloromethane	U		0.000688	0.00610	1	05/10/2020 18:43	WG1473272
Bromoform	U		0.00143	0.0305	1	05/10/2020 18:43	WG1473272
Bromomethane	U		0.00240	0.0153	1	05/10/2020 18:43	WG1473272
n-Butylbenzene	U		0.00641	0.0153	1	05/10/2020 18:43	WG1473272
sec-Butylbenzene	U		0.00352	0.0153	1	05/10/2020 18:43	WG1473272
tert-Butylbenzene	U		0.00238	0.00610	1	05/10/2020 18:43	WG1473272
Carbon disulfide	U		0.000854	0.0153	1	05/10/2020 18:43	WG1473272
Carbon tetrachloride	U		0.00110	0.00610	1	05/10/2020 18:43	WG1473272
Chlorobenzene	U		0.000256	0.00305	1	05/10/2020 18:43	WG1473272
Chlorodibromomethane	U		0.000747	0.00305	1	05/10/2020 18:43	WG1473272
Chloroethane	U		0.00208	0.00610	1	05/10/2020 18:43	WG1473272
Chloroform	U		0.00126	0.00305	1	05/10/2020 18:43	WG1473272
Chloromethane	U		0.00531	0.0153	1	05/10/2020 18:43	WG1473272
2-Chlorotoluene	U		0.00106	0.00305	1	05/10/2020 18:43	WG1473272
4-Chlorotoluene	U		0.000549	0.00610	1	05/10/2020 18:43	WG1473272
1,2-Dibromo-3-Chloropropane	U		0.00476	0.0305	1	05/10/2020 18:43	WG1473272
1,2-Dibromoethane	U		0.000791	0.00305	1	05/10/2020 18:43	WG1473272
Dibromomethane	U		0.000916	0.00610	1	05/10/2020 18:43	WG1473272
1,2-Dichlorobenzene	U		0.000519	0.00610	1	05/10/2020 18:43	WG1473272
1,3-Dichlorobenzene	U		0.000732	0.00610	1	05/10/2020 18:43	WG1473272
1,4-Dichlorobenzene	U		0.000854	0.00610	1	05/10/2020 18:43	WG1473272
Dichlorodifluoromethane	U		0.00197	0.00305	1	05/10/2020 18:43	WG1473272
1,1-Dichloroethane	U		0.000599	0.00305	1	05/10/2020 18:43	WG1473272
1,2-Dichloroethane	U		0.000792	0.00305	1	05/10/2020 18:43	WG1473272
1,1-Dichloroethene	U		0.000740	0.00305	1	05/10/2020 18:43	WG1473272
cis-1,2-Dichloroethene	U		0.000896	0.00305	1	05/10/2020 18:43	WG1473272
trans-1,2-Dichloroethene	U		0.00127	0.00610	1	05/10/2020 18:43	WG1473272
1,2-Dichloropropane	U		0.00173	0.00610	1	05/10/2020 18:43	WG1473272
1,1-Dichloropropene	U		0.000988	0.00305	1	05/10/2020 18:43	WG1473272
1,3-Dichloropropane	U		0.000612	0.00610	1	05/10/2020 18:43	WG1473272
cis-1,3-Dichloropropene	U		0.000924	0.00305	1	05/10/2020 18:43	WG1473272
trans-1,3-Dichloropropene	U		0.00139	0.00610	1	05/10/2020 18:43	WG1473272
trans-1,4-Dichloro-2-butene	U		0.00227	0.00610	1	05/10/2020 18:43	WG1473272
2,2-Dichloropropane	U		0.00168	0.00305	1	05/10/2020 18:43	WG1473272
Di-isopropyl ether	U		0.000500	0.00122	1	05/10/2020 18:43	WG1473272
Ethylbenzene	U		0.000900	0.00305	1	05/10/2020 18:43	WG1473272
Hexachloro-1,3-butadiene	U		0.00732	0.0305	1	05/10/2020 18:43	WG1473272
2-Hexanone	U		0.00410	0.0305	1	05/10/2020 18:43	WG1473272
n-Hexane	U		0.00276	0.00610	1	05/10/2020 18:43	WG1473272
Iodomethane	U		0.00283	0.0153	1	05/10/2020 18:43	WG1473272
Isopropylbenzene	U		0.000519	0.00305	1	05/10/2020 18:43	WG1473272
p-Isopropyltoluene	U		0.00311	0.00610	1	05/10/2020 18:43	WG1473272
2-Butanone (MEK)	U		0.0775	0.122	1	05/10/2020 18:43	WG1473272
Methylene Chloride	U		0.00811	0.0305	1	05/10/2020 18:43	WG1473272
4-Methyl-2-pentanone (MIBK)	U		0.00278	0.0305	1	05/10/2020 18:43	WG1473272

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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000427	0.00122	1	05/10/2020 18:43	WG1473272
Naphthalene	U		0.00596	0.0153	1	05/10/2020 18:43	WG1473272
n-Propylbenzene	U		0.00116	0.00610	1	05/10/2020 18:43	WG1473272
Styrene	U		0.000280	0.0153	1	05/10/2020 18:43	WG1473272
1,1,1,2-Tetrachloroethane	U		0.00116	0.00305	1	05/10/2020 18:43	WG1473272
1,1,2,2-Tetrachloroethane	U		0.000848	0.00305	1	05/10/2020 18:43	WG1473272
1,1,2-Trichlorotrifluoroethane	U		0.000920	0.00305	1	05/10/2020 18:43	WG1473272
Tetrachloroethene	U		0.00109	0.00305	1	05/10/2020 18:43	WG1473272
Toluene	U		0.00159	0.00610	1	05/10/2020 18:43	WG1473272
1,2,3-Trichlorobenzene	U		0.00895	0.0153	1	05/10/2020 18:43	WG1473272
1,2,4-Trichlorobenzene	U		0.00537	0.0153	1	05/10/2020 18:43	WG1473272
1,1,1-Trichloroethane	U		0.00113	0.00305	1	05/10/2020 18:43	WG1473272
1,1,2-Trichloroethane	U		0.000729	0.00305	1	05/10/2020 18:43	WG1473272
Trichloroethene	U		0.000713	0.00122	1	05/10/2020 18:43	WG1473272
Trichlorofluoromethane	U		0.00101	0.00305	1	05/10/2020 18:43	WG1473272
1,2,3-Trichloropropane	U		0.00198	0.0153	1	05/10/2020 18:43	WG1473272
1,2,4-Trimethylbenzene	U		0.00193	0.00610	1	05/10/2020 18:43	WG1473272
1,2,3-Trimethylbenzene	U		0.00193	0.00610	1	05/10/2020 18:43	WG1473272
1,3,5-Trimethylbenzene	U		0.00244	0.00610	1	05/10/2020 18:43	WG1473272
Vinyl acetate	U		0.00310	0.0153	1	05/10/2020 18:43	WG1473272
Vinyl chloride	U		0.00142	0.00305	1	05/10/2020 18:43	WG1473272
Xylenes, Total	U		0.00107	0.00793	1	05/10/2020 18:43	WG1473272
(S) Toluene-d8	101			75.0-131		05/10/2020 18:43	WG1473272
(S) 4-Bromofluorobenzene	98.1			67.0-138		05/10/2020 18:43	WG1473272
(S) 1,2-Dichloroethane-d4	104			70.0-130		05/10/2020 18:43	WG1473272

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.7		1	05/12/2020 17:24	WG1473915

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0452	0.0620	1	05/10/2020 19:02	WG1473272
Acrylonitrile	U		0.00447	0.0155	1	05/10/2020 19:02	WG1473272
Benzene	U		0.000579	0.00124	1	05/10/2020 19:02	WG1473272
Bromobenzene	U		0.00112	0.0155	1	05/10/2020 19:02	WG1473272
Bromodichloromethane	U		0.000899	0.00310	1	05/10/2020 19:02	WG1473272
Bromochloromethane	U		0.000699	0.00620	1	05/10/2020 19:02	WG1473272
Bromoform	U		0.00145	0.0310	1	05/10/2020 19:02	WG1473272
Bromomethane	U		0.00244	0.0155	1	05/10/2020 19:02	WG1473272
n-Butylbenzene	U		0.00651	0.0155	1	05/10/2020 19:02	WG1473272
sec-Butylbenzene	U		0.00357	0.0155	1	05/10/2020 19:02	WG1473272
tert-Butylbenzene	U		0.00242	0.00620	1	05/10/2020 19:02	WG1473272
Carbon disulfide	U		0.000868	0.0155	1	05/10/2020 19:02	WG1473272
Carbon tetrachloride	U		0.00111	0.00620	1	05/10/2020 19:02	WG1473272
Chlorobenzene	U		0.000260	0.00310	1	05/10/2020 19:02	WG1473272
Chlorodibromomethane	U		0.000758	0.00310	1	05/10/2020 19:02	WG1473272
Chloroethane	U		0.00211	0.00620	1	05/10/2020 19:02	WG1473272
Chloroform	U		0.00128	0.00310	1	05/10/2020 19:02	WG1473272
Chloromethane	U		0.00539	0.0155	1	05/10/2020 19:02	WG1473272
2-Chlorotoluene	U		0.00107	0.00310	1	05/10/2020 19:02	WG1473272
4-Chlorotoluene	U		0.000558	0.00620	1	05/10/2020 19:02	WG1473272
1,2-Dibromo-3-Chloropropane	U		0.00483	0.0310	1	05/10/2020 19:02	WG1473272
1,2-Dibromoethane	U		0.000803	0.00310	1	05/10/2020 19:02	WG1473272
Dibromomethane	U		0.000930	0.00620	1	05/10/2020 19:02	WG1473272
1,2-Dichlorobenzene	U		0.000527	0.00620	1	05/10/2020 19:02	WG1473272
1,3-Dichlorobenzene	U		0.000744	0.00620	1	05/10/2020 19:02	WG1473272
1,4-Dichlorobenzene	U		0.000868	0.00620	1	05/10/2020 19:02	WG1473272
Dichlorodifluoromethane	U		0.00200	0.00310	1	05/10/2020 19:02	WG1473272
1,1-Dichloroethane	U		0.000609	0.00310	1	05/10/2020 19:02	WG1473272
1,2-Dichloroethane	U		0.000804	0.00310	1	05/10/2020 19:02	WG1473272
1,1-Dichloroethene	U		0.000751	0.00310	1	05/10/2020 19:02	WG1473272
cis-1,2-Dichloroethene	U		0.000910	0.00310	1	05/10/2020 19:02	WG1473272
trans-1,2-Dichloroethene	U		0.00129	0.00620	1	05/10/2020 19:02	WG1473272
1,2-Dichloropropane	U		0.00176	0.00620	1	05/10/2020 19:02	WG1473272
1,1-Dichloropropene	U		0.00100	0.00310	1	05/10/2020 19:02	WG1473272
1,3-Dichloropropane	U		0.000621	0.00620	1	05/10/2020 19:02	WG1473272
cis-1,3-Dichloropropene	U		0.000938	0.00310	1	05/10/2020 19:02	WG1473272
trans-1,3-Dichloropropene	U		0.00141	0.00620	1	05/10/2020 19:02	WG1473272
trans-1,4-Dichloro-2-butene	U		0.00231	0.00620	1	05/10/2020 19:02	WG1473272
2,2-Dichloropropane	U		0.00171	0.00310	1	05/10/2020 19:02	WG1473272
Di-isopropyl ether	U		0.000508	0.00124	1	05/10/2020 19:02	WG1473272
Ethylbenzene	U		0.000913	0.00310	1	05/10/2020 19:02	WG1473272
Hexachloro-1,3-butadiene	U		0.00744	0.0310	1	05/10/2020 19:02	WG1473272
2-Hexanone	U		0.00416	0.0310	1	05/10/2020 19:02	WG1473272
n-Hexane	U		0.00280	0.00620	1	05/10/2020 19:02	WG1473272
Iodomethane	U		0.00288	0.0155	1	05/10/2020 19:02	WG1473272
Isopropylbenzene	U		0.000527	0.00310	1	05/10/2020 19:02	WG1473272
p-Isopropyltoluene	U		0.00316	0.00620	1	05/10/2020 19:02	WG1473272
2-Butanone (MEK)	U		0.0787	0.124	1	05/10/2020 19:02	WG1473272
Methylene Chloride	U		0.00823	0.0310	1	05/10/2020 19:02	WG1473272
4-Methyl-2-pentanone (MIBK)	U		0.00283	0.0310	1	05/10/2020 19:02	WG1473272

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000434	0.00124	1	05/10/2020 19:02	WG1473272
Naphthalene	U		0.00605	0.0155	1	05/10/2020 19:02	WG1473272
n-Propylbenzene	U		0.00118	0.00620	1	05/10/2020 19:02	WG1473272
Styrene	U		0.000284	0.0155	1	05/10/2020 19:02	WG1473272
1,1,1,2-Tetrachloroethane	U		0.00117	0.00310	1	05/10/2020 19:02	WG1473272
1,1,2,2-Tetrachloroethane	U		0.000861	0.00310	1	05/10/2020 19:02	WG1473272
1,1,2-Trichlorotrifluoroethane	U		0.000934	0.00310	1	05/10/2020 19:02	WG1473272
Tetrachloroethene	U		0.00111	0.00310	1	05/10/2020 19:02	WG1473272
Toluene	U		0.00161	0.00620	1	05/10/2020 19:02	WG1473272
1,2,3-Trichlorobenzene	U		0.00908	0.0155	1	05/10/2020 19:02	WG1473272
1,2,4-Trichlorobenzene	U		0.00545	0.0155	1	05/10/2020 19:02	WG1473272
1,1,1-Trichloroethane	U		0.00114	0.00310	1	05/10/2020 19:02	WG1473272
1,1,2-Trichloroethane	U		0.000740	0.00310	1	05/10/2020 19:02	WG1473272
Trichloroethene	U		0.000724	0.00124	1	05/10/2020 19:02	WG1473272
Trichlorofluoromethane	U		0.00102	0.00310	1	05/10/2020 19:02	WG1473272
1,2,3-Trichloropropane	U		0.00201	0.0155	1	05/10/2020 19:02	WG1473272
1,2,4-Trimethylbenzene	U		0.00196	0.00620	1	05/10/2020 19:02	WG1473272
1,2,3-Trimethylbenzene	U		0.00196	0.00620	1	05/10/2020 19:02	WG1473272
1,3,5-Trimethylbenzene	U		0.00248	0.00620	1	05/10/2020 19:02	WG1473272
Vinyl acetate	U		0.00315	0.0155	1	05/10/2020 19:02	WG1473272
Vinyl chloride	U		0.00144	0.00310	1	05/10/2020 19:02	WG1473272
Xylenes, Total	U		0.00109	0.00806	1	05/10/2020 19:02	WG1473272
(S) Toluene-d8	100			75.0-131		05/10/2020 19:02	WG1473272
(S) 4-Bromofluorobenzene	96.5			67.0-138		05/10/2020 19:02	WG1473272
(S) 1,2-Dichloroethane-d4	109			70.0-130		05/10/2020 19:02	WG1473272

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.1		1	05/12/2020 17:24	WG1473915

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0419	0.0574	1	05/10/2020 19:21	WG1473272
Acrylonitrile	U		0.00414	0.0143	1	05/10/2020 19:21	WG1473272
Benzene	U		0.000536	0.00115	1	05/10/2020 19:21	WG1473272
Bromobenzene	U		0.00103	0.0143	1	05/10/2020 19:21	WG1473272
Bromodichloromethane	U		0.000832	0.00287	1	05/10/2020 19:21	WG1473272
Bromochloromethane	U		0.000647	0.00574	1	05/10/2020 19:21	WG1473272
Bromoform	U		0.00134	0.0287	1	05/10/2020 19:21	WG1473272
Bromomethane	U		0.00226	0.0143	1	05/10/2020 19:21	WG1473272
n-Butylbenzene	U		0.00603	0.0143	1	05/10/2020 19:21	WG1473272
sec-Butylbenzene	U		0.00331	0.0143	1	05/10/2020 19:21	WG1473272
tert-Butylbenzene	U		0.00224	0.00574	1	05/10/2020 19:21	WG1473272
Carbon disulfide	U		0.000804	0.0143	1	05/10/2020 19:21	WG1473272
Carbon tetrachloride	U		0.00103	0.00574	1	05/10/2020 19:21	WG1473272
Chlorobenzene	U		0.000241	0.00287	1	05/10/2020 19:21	WG1473272
Chlorodibromomethane	U		0.000703	0.00287	1	05/10/2020 19:21	WG1473272
Chloroethane	U		0.00195	0.00574	1	05/10/2020 19:21	WG1473272
Chloroform	U		0.00118	0.00287	1	05/10/2020 19:21	WG1473272
Chloromethane	U		0.00499	0.0143	1	05/10/2020 19:21	WG1473272
2-Chlorotoluene	U		0.000993	0.00287	1	05/10/2020 19:21	WG1473272
4-Chlorotoluene	U		0.000517	0.00574	1	05/10/2020 19:21	WG1473272
1,2-Dibromo-3-Chloropropane	U		0.00448	0.0287	1	05/10/2020 19:21	WG1473272
1,2-Dibromoethane	U		0.000744	0.00287	1	05/10/2020 19:21	WG1473272
Dibromomethane	U		0.000861	0.00574	1	05/10/2020 19:21	WG1473272
1,2-Dichlorobenzene	U		0.000488	0.00574	1	05/10/2020 19:21	WG1473272
1,3-Dichlorobenzene	U		0.000689	0.00574	1	05/10/2020 19:21	WG1473272
1,4-Dichlorobenzene	U		0.000804	0.00574	1	05/10/2020 19:21	WG1473272
Dichlorodifluoromethane	U		0.00185	0.00287	1	05/10/2020 19:21	WG1473272
1,1-Dichloroethane	U		0.000564	0.00287	1	05/10/2020 19:21	WG1473272
1,2-Dichloroethane	U		0.000745	0.00287	1	05/10/2020 19:21	WG1473272
1,1-Dichloroethene	U		0.000696	0.00287	1	05/10/2020 19:21	WG1473272
cis-1,2-Dichloroethene	U		0.000843	0.00287	1	05/10/2020 19:21	WG1473272
trans-1,2-Dichloroethene	U		0.00119	0.00574	1	05/10/2020 19:21	WG1473272
1,2-Dichloropropane	U		0.00163	0.00574	1	05/10/2020 19:21	WG1473272
1,1-Dichloropropene	U		0.000929	0.00287	1	05/10/2020 19:21	WG1473272
1,3-Dichloropropane	U		0.000575	0.00574	1	05/10/2020 19:21	WG1473272
cis-1,3-Dichloropropene	U		0.000869	0.00287	1	05/10/2020 19:21	WG1473272
trans-1,3-Dichloropropene	U		0.00131	0.00574	1	05/10/2020 19:21	WG1473272
trans-1,4-Dichloro-2-butene	U		0.00214	0.00574	1	05/10/2020 19:21	WG1473272
2,2-Dichloropropane	U		0.00158	0.00287	1	05/10/2020 19:21	WG1473272
Di-isopropyl ether	U		0.000471	0.00115	1	05/10/2020 19:21	WG1473272
Ethylbenzene	U		0.000846	0.00287	1	05/10/2020 19:21	WG1473272
Hexachloro-1,3-butadiene	U		0.00689	0.0287	1	05/10/2020 19:21	WG1473272
2-Hexanone	U		0.00386	0.0287	1	05/10/2020 19:21	WG1473272
n-Hexane	U		0.00259	0.00574	1	05/10/2020 19:21	WG1473272
Iodomethane	U		0.00266	0.0143	1	05/10/2020 19:21	WG1473272
Isopropylbenzene	U		0.000488	0.00287	1	05/10/2020 19:21	WG1473272
p-Isopropyltoluene	U		0.00293	0.00574	1	05/10/2020 19:21	WG1473272
2-Butanone (MEK)	U		0.0729	0.115	1	05/10/2020 19:21	WG1473272
Methylene Chloride	U		0.00762	0.0287	1	05/10/2020 19:21	WG1473272
4-Methyl-2-pentanone (MIBK)	U		0.00262	0.0287	1	05/10/2020 19:21	WG1473272

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000402	0.00115	1	05/10/2020 19:21	WG1473272
Naphthalene	U		0.00560	0.0143	1	05/10/2020 19:21	WG1473272
n-Propylbenzene	U		0.00109	0.00574	1	05/10/2020 19:21	WG1473272
Styrene	U		0.000263	0.0143	1	05/10/2020 19:21	WG1473272
1,1,1,2-Tetrachloroethane	U		0.00109	0.00287	1	05/10/2020 19:21	WG1473272
1,1,2,2-Tetrachloroethane	U		0.000798	0.00287	1	05/10/2020 19:21	WG1473272
1,1,2-Trichlorotrifluoroethane	U		0.000866	0.00287	1	05/10/2020 19:21	WG1473272
Tetrachloroethene	U		0.00103	0.00287	1	05/10/2020 19:21	WG1473272
Toluene	U		0.00149	0.00574	1	05/10/2020 19:21	WG1473272
1,2,3-Trichlorobenzene	U		0.00841	0.0143	1	05/10/2020 19:21	WG1473272
1,2,4-Trichlorobenzene	U		0.00505	0.0143	1	05/10/2020 19:21	WG1473272
1,1,1-Trichloroethane	U		0.00106	0.00287	1	05/10/2020 19:21	WG1473272
1,1,2-Trichloroethane	U		0.000685	0.00287	1	05/10/2020 19:21	WG1473272
Trichloroethene	U		0.000670	0.00115	1	05/10/2020 19:21	WG1473272
Trichlorofluoromethane	U		0.000949	0.00287	1	05/10/2020 19:21	WG1473272
1,2,3-Trichloropropane	U		0.00186	0.0143	1	05/10/2020 19:21	WG1473272
1,2,4-Trimethylbenzene	U		0.00181	0.00574	1	05/10/2020 19:21	WG1473272
1,2,3-Trimethylbenzene	U		0.00181	0.00574	1	05/10/2020 19:21	WG1473272
1,3,5-Trimethylbenzene	U		0.00230	0.00574	1	05/10/2020 19:21	WG1473272
Vinyl acetate	U		0.00292	0.0143	1	05/10/2020 19:21	WG1473272
Vinyl chloride	U		0.00133	0.00287	1	05/10/2020 19:21	WG1473272
Xylenes, Total	U		0.00101	0.00746	1	05/10/2020 19:21	WG1473272
(S) Toluene-d8	99.8			75.0-131		05/10/2020 19:21	WG1473272
(S) 4-Bromofluorobenzene	96.5			67.0-138		05/10/2020 19:21	WG1473272
(S) 1,2-Dichloroethane-d4	104			70.0-130		05/10/2020 19:21	WG1473272

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3527371-1 05/12/20 17:34

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

L1214576-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1214576-02 05/12/20 17:34 • (DUP) R3527371-3 05/12/20 17:34

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	75.6	75.8	1	0.198		10

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3527371-2 05/12/20 17:34

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	



Method Blank (MB)

(MB) R3527368-1 05/12/20 17:24

Analyte	MB Result %	<u>MB Qualifier</u>	MB MDL %	MB RDL %
Total Solids	0.00100			

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

L1214591-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1214591-02 05/12/20 17:24 • (DUP) R3527368-3 05/12/20 17:24

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits
Total Solids	94.3	96.6	1	2.38		10

Laboratory Control Sample (LCS)

(LCS) R3527368-2 05/12/20 17:24

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	100	85.0-115	

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3526487-2 05/10/20 13:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromochloromethane	U		0.000564	0.00500
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon disulfide	U		0.000700	0.0125
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
trans-1,4-Dichloro-2-butene	U		0.00186	0.00500
Dichlorodifluoromethane	U		0.00161	0.00250
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3526487-2 05/10/20 13:22

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
n-Hexane	U		0.00226	0.00500
2-Hexanone	U		0.00336	0.0250
Iodomethane	U		0.00232	0.0125
Isopropylbenzene	U		0.000425	0.00250
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	0.0653	U	0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl acetate	U		0.00254	0.0125
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	99.9			75.0-131
(S) 4-Bromofluorobenzene	98.3			67.0-138
(S) 1,2-Dichloroethane-d4	93.8			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) R3526487-1 05/10/20 12:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	0.625	0.527	84.3	10.0-160	
Acrylonitrile	0.625	0.671	107	45.0-153	
Benzene	0.125	0.125	100	70.0-123	
Bromobenzene	0.125	0.127	102	73.0-121	
Bromodichloromethane	0.125	0.115	92.0	73.0-121	
Bromochloromethane	0.125	0.149	119	77.0-128	
Bromoform	0.125	0.117	93.6	64.0-132	
Bromomethane	0.125	0.132	106	56.0-147	
n-Butylbenzene	0.125	0.114	91.2	68.0-135	
sec-Butylbenzene	0.125	0.125	100	74.0-130	
tert-Butylbenzene	0.125	0.116	92.8	75.0-127	
Carbon disulfide	0.125	0.115	92.0	56.0-133	
Carbon tetrachloride	0.125	0.133	106	66.0-128	
Chlorobenzene	0.125	0.120	96.0	76.0-128	
Chlorodibromomethane	0.125	0.139	111	74.0-127	
Chloroethane	0.125	0.132	106	61.0-134	
Chloroform	0.125	0.102	81.6	72.0-123	
Chloromethane	0.125	0.115	92.0	51.0-138	
2-Chlorotoluene	0.125	0.139	111	75.0-124	
4-Chlorotoluene	0.125	0.125	100	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.115	92.0	59.0-130	
1,2-Dibromoethane	0.125	0.136	109	74.0-128	
Dibromomethane	0.125	0.125	100	75.0-122	
1,2-Dichlorobenzene	0.125	0.136	109	76.0-124	
1,3-Dichlorobenzene	0.125	0.132	106	76.0-125	
1,4-Dichlorobenzene	0.125	0.117	93.6	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.133	106	45.0-143	
Dichlorodifluoromethane	0.125	0.107	85.6	43.0-156	
1,1-Dichloroethane	0.125	0.135	108	70.0-127	
1,2-Dichloroethane	0.125	0.104	83.2	65.0-131	
1,1-Dichloroethene	0.125	0.144	115	65.0-131	
cis-1,2-Dichloroethene	0.125	0.110	88.0	73.0-125	
trans-1,2-Dichloroethene	0.125	0.127	102	71.0-125	
1,2-Dichloropropane	0.125	0.136	109	74.0-125	
1,1-Dichloropropene	0.125	0.141	113	73.0-125	
1,3-Dichloropropane	0.125	0.130	104	80.0-125	
cis-1,3-Dichloropropene	0.125	0.130	104	76.0-127	
trans-1,3-Dichloropropene	0.125	0.134	107	73.0-127	
2,2-Dichloropropane	0.125	0.123	98.4	59.0-135	
Di-isopropyl ether	0.125	0.114	91.2	60.0-136	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3526487-1 05/10/20 12:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	0.125	0.119	95.2	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.127	102	57.0-150	
n-Hexane	0.125	0.113	90.4	55.0-137	
2-Hexanone	0.625	0.629	101	54.0-147	
Iodomethane	0.625	0.734	117	74.0-134	
Isopropylbenzene	0.125	0.120	96.0	72.0-127	
p-Isopropyltoluene	0.125	0.135	108	72.0-133	
2-Butanone (MEK)	0.625	0.737	118	30.0-160	
Methylene Chloride	0.125	0.113	90.4	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.756	121	56.0-143	
Methyl tert-butyl ether	0.125	0.131	105	66.0-132	
Naphthalene	0.125	0.151	121	59.0-130	
n-Propylbenzene	0.125	0.137	110	74.0-126	
Styrene	0.125	0.129	103	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.139	111	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.134	107	68.0-128	
Tetrachloroethene	0.125	0.135	108	70.0-136	
Toluene	0.125	0.110	88.0	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.120	96.0	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.147	118	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.137	110	62.0-137	
1,1,1-Trichloroethane	0.125	0.131	105	69.0-126	
1,1,2-Trichloroethane	0.125	0.125	100	78.0-123	
Trichloroethene	0.125	0.129	103	76.0-126	
Trichlorofluoromethane	0.125	0.134	107	61.0-142	
1,2,3-Trichloropropane	0.125	0.137	110	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.104	83.2	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.126	101	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.123	98.4	73.0-127	
Vinyl acetate	0.625	0.769	123	43.0-159	
Vinyl chloride	0.125	0.144	115	63.0-134	
Xylenes, Total	0.375	0.367	97.9	72.0-127	
<i>(S) Toluene-d8</i>			98.8	75.0-131	
<i>(S) 4-Bromofluorobenzene</i>			101	67.0-138	
<i>(S) 1,2-Dichloroethane-d4</i>			109	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



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

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	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.

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

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
---	---



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
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}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

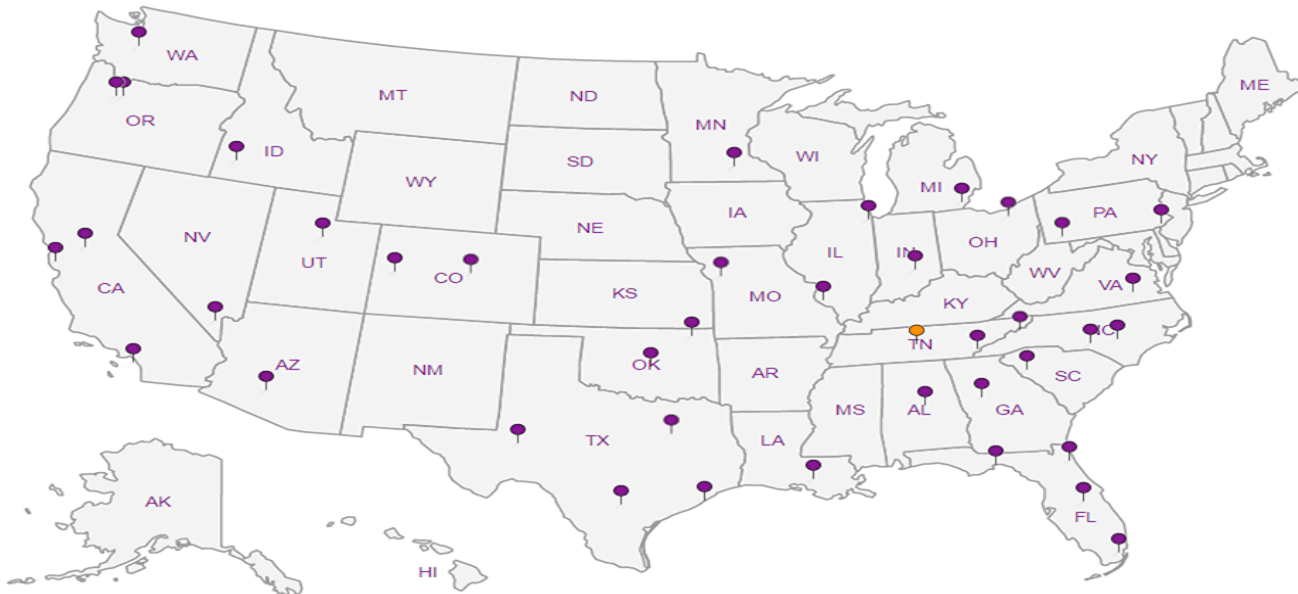
Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres
Chk

Report to:
Brian O'Neal/Bill Haldeman

Email To:
boneal@pesenv.com; bhaldeman@pesenv.com;

Project Description:
American Linen

City/State
Collected: SEATTLE WA

Please Circle:
PT MT CT ET

Phone: 206-529-3980

Client Project #
1413.001.02.501B

Lab Project #
PESENVSWA-ALP

Collected by (print):
Rachel McLaughlin

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Immediately
Packed on Ice - N

Same Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

Date Results Needed

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOCs 8260D 40mIAmb/MeOH5ml/Syr	dry weight 2ozClr-NoPres	trip blk VOC 8260LLC 40mIAmb-HCl-Blk	Analysis / Container / Preservative	Chain of Custody	
MW-338-10	Grab	SS	10	5/1/20	0945	2	X	X			12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 SDG # L1214576 E075 Acctnum: PESENVSWA Template: T165829 Prelogin: P766851 PM: 110 - Brian Ford PB: Shipped Via: Remarks Sample # (lab only)	
MW-338-15		SS	15		1000	2						-11
MW-338-20		SS	20		1010	2						-12
MW-338-23		SS	23		1030	2						-13
MW-338-28		SS	28		1032	2						-14
MW-338-34		SS	34		1105	2						-15
MW-338-39		SS	39		1107	2						-16
MW-338-41		SS	41		1145	2						-17
MW-338-45		SS	45		1147	2						-18
MW-338-51	Grab	SS	51	5/1/20	1205	2	X	X				-19

* 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 # 1719 9997 0114

pH Temp
Flow Other

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

Relinquished by: (Signature)	Date: 5/1/20	Time: 1300	Received by: (Signature)	Trip Blank Received: Yes / No	HCL / MeOH	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date: 5/1/20	Time: 1330	Received by: (Signature)	Temp: 22.7 °C	Bottles Received: 22	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 05/01/20	Time: 0900	



PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres
Chk

Analysis / Container / Preservative



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



Report to:
Brian O'Neal/Bill Haldeman

Email To:
boneal@pesenv.com; bhdaldeman@pesenv.com;

Project Description:
American Linen

City/State Collected: **SEATTLE WA**

Please Circle:
PT MT CT ET

Phone: **206-529-3980**

Client Project #
1413.001.02.501B

Lab Project #
PESENVSWA-ALP

Collected by (print):
R. McLAUGHLIN

Site/Facility ID #

P.O. #

Collected by (signature):
[Signature]
Immediately Packed on Ice **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-338-SS	Grab	SS	SS	5/1/20	1207	2
		SS				
		SS				
		SS				
		SS				
		SS				
		SS				
		SS				
		SS				
		SS				

VOCs 8260D 40mIAmb/MeOH5ml/Syr

dry weight 2ozClr-NoPres

trip blk VOC 8260LLC 40mIAmb-HCl-Blk

SDG # **L1214574**
 Table #
 Acctnum: **PESENVSWA**
 Template: **T165829**
 Prelogin: **P766851**
 PM: **110 - Brian Ford**
 PB:
 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 _____

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 #

Relinquished by: (Signature) <i>[Signature]</i>	Date: 5/1/20	Time: 1300	Received by: (Signature) <i>[Signature]</i>	Trip Blank Received: Yes / No HCL / MeOH TBR
Relinquished by: (Signature) <i>[Signature]</i>	Date: 5/1/20	Time: 1330	Received by: (Signature) <i>[Signature]</i>	Temp: 11°C 54.2°F Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 2 MAY Time: 9W Hold: Condition: NCF / OK

PES Environmental, Inc.- WA

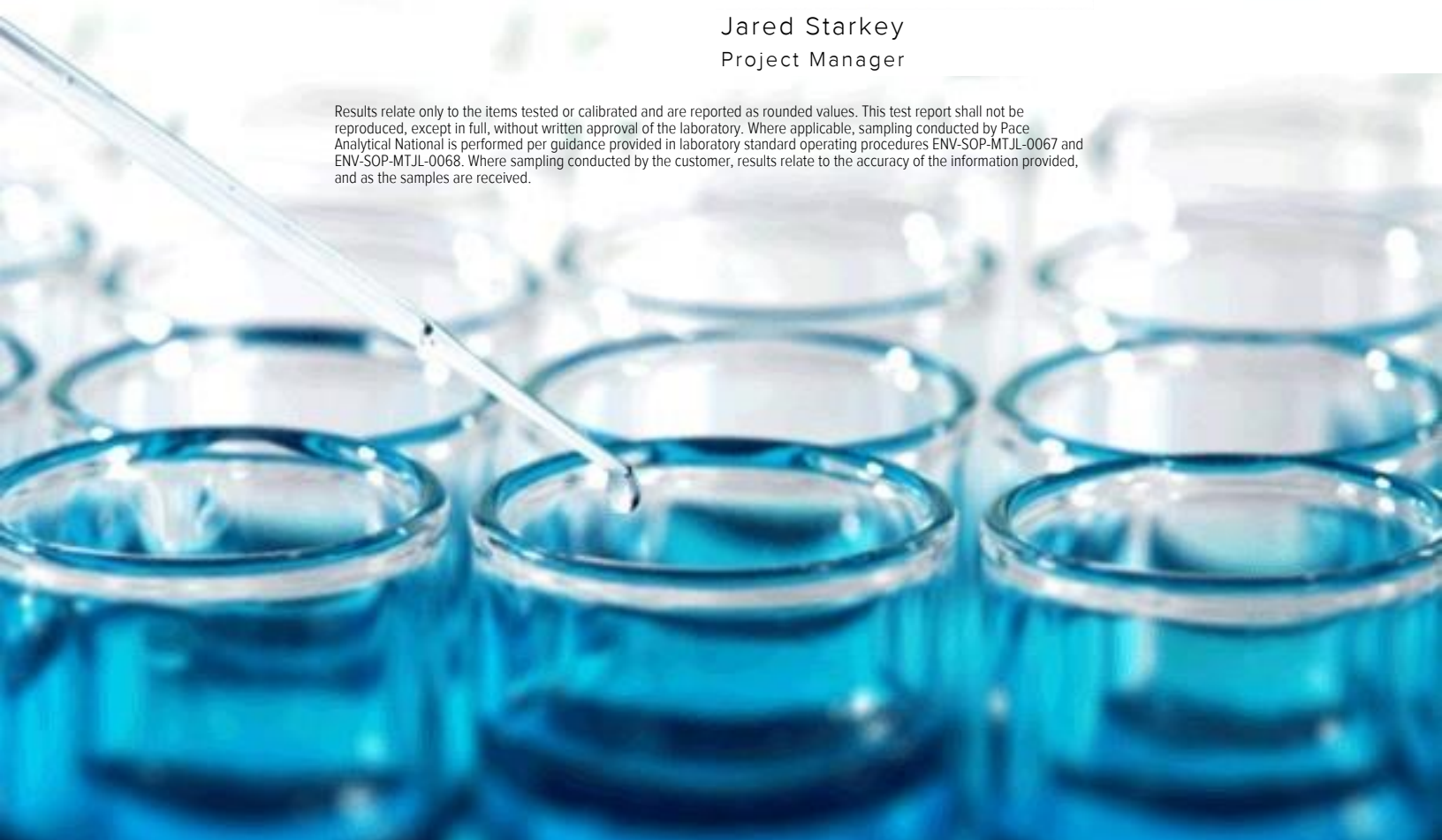
Sample Delivery Group: L1214811
Samples Received: 05/05/2020
Project Number: 1413.001.02.501E
Description: American Linen
Site: AMERICAN LINEN
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

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.





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SAMPLE SUMMARY



MW-342-050420 L1214811-01 GW

Collected by Hannah Cohen
Collected date/time 05/04/20 10:50
Received date/time 05/05/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1470889	1	05/06/20 09:14	05/06/20 09:14	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1470645	1	05/05/20 12:43	05/05/20 12:43	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472044	1	05/08/20 07:04	05/08/20 07:04	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1470978	1	05/08/20 08:08	05/08/20 11:28	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1473785	1	05/11/20 11:30	05/11/20 11:30	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1471764	1	05/07/20 02:43	05/07/20 02:43	ACG	Mt. Juliet, TN

1
Cp

2
Tc

3
Ss

4
Cn

MW-343-050420 L1214811-02 GW

Collected by Hannah Cohen
Collected date/time 05/04/20 12:15
Received date/time 05/05/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1470889	1	05/06/20 09:38	05/06/20 09:38	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1470645	1	05/05/20 13:34	05/05/20 13:34	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1470645	10	05/05/20 13:47	05/05/20 13:47	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472048	1	05/07/20 14:53	05/07/20 14:53	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1470978	1	05/08/20 08:08	05/08/20 11:31	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1473785	1	05/11/20 11:32	05/11/20 11:32	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1471764	1	05/07/20 03:03	05/07/20 03:03	ACG	Mt. Juliet, TN

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

MW-332-050420 L1214811-03 GW

Collected by Hannah Cohen
Collected date/time 05/04/20 14:05
Received date/time 05/05/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1470889	1	05/06/20 09:49	05/06/20 09:49	LEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1470645	1	05/05/20 14:25	05/05/20 14:25	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1470645	5	05/05/20 14:38	05/05/20 14:38	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472048	1	05/07/20 15:10	05/07/20 15:10	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1470978	1	05/08/20 08:08	05/08/20 11:34	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1473785	1	05/11/20 11:35	05/11/20 11:35	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1471764	1	05/07/20 03:24	05/07/20 03:24	ACG	Mt. Juliet, TN



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	174000		8450	20000	1	05/06/2020 09:14	WG1470889

Sample Narrative:

L1214811-01 WG1470889: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	14200		379	1000	1	05/05/2020 12:43	WG1470645
Nitrate	351		48.0	100	1	05/05/2020 12:43	WG1470645
Sulfate	9650		594	5000	1	05/05/2020 12:43	WG1470645

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)	2680		102	1000	1	05/08/2020 07:04	WG1472044

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1130		48.9	100	1	05/08/2020 11:28	WG1470978
Manganese	438		1.32	5.00	1	05/08/2020 11:28	WG1470978

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	1040		0.287	0.678	1	05/11/2020 11:30	WG1473785
Ethane	U		0.296	1.29	1	05/11/2020 11:30	WG1473785
Ethene	U		0.422	1.27	1	05/11/2020 11:30	WG1473785

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		11.3	25.0	1	05/07/2020 02:43	WG1471764
Acrylonitrile	U		0.671	5.00	1	05/07/2020 02:43	WG1471764
Benzene	U		0.0941	0.500	1	05/07/2020 02:43	WG1471764
Bromobenzene	U		0.118	0.500	1	05/07/2020 02:43	WG1471764
Bromodichloromethane	U		0.136	0.500	1	05/07/2020 02:43	WG1471764
Bromochloromethane	U		0.128	0.500	1	05/07/2020 02:43	WG1471764
Bromoform	U		0.129	0.500	1	05/07/2020 02:43	WG1471764
Bromomethane	U		0.605	2.50	1	05/07/2020 02:43	WG1471764
n-Butylbenzene	U		0.157	0.500	1	05/07/2020 02:43	WG1471764
sec-Butylbenzene	U		0.125	0.500	1	05/07/2020 02:43	WG1471764
tert-Butylbenzene	U		0.127	0.500	1	05/07/2020 02:43	WG1471764
Carbon disulfide	0.643		0.0962	0.500	1	05/07/2020 02:43	WG1471764
Carbon tetrachloride	U		0.128	0.500	1	05/07/2020 02:43	WG1471764
Chlorobenzene	U		0.117	0.500	1	05/07/2020 02:43	WG1471764
Chlorodibromomethane	U		0.140	0.500	1	05/07/2020 02:43	WG1471764
Chloroethane	U		0.192	2.50	1	05/07/2020 02:43	WG1471764
Chloroform	U		0.111	0.500	1	05/07/2020 02:43	WG1471764
Chloromethane	U		0.960	1.25	1	05/07/2020 02:43	WG1471764
2-Chlorotoluene	U		0.106	0.500	1	05/07/2020 02:43	WG1471764
4-Chlorotoluene	U		0.114	0.500	1	05/07/2020 02:43	WG1471764

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
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/07/2020 02:43	WG1471764
1,2-Dibromoethane	U		0.126	0.500	1	05/07/2020 02:43	WG1471764
Dibromomethane	U		0.122	0.500	1	05/07/2020 02:43	WG1471764
1,2-Dichlorobenzene	U		0.107	0.500	1	05/07/2020 02:43	WG1471764
1,3-Dichlorobenzene	U		0.299	0.500	1	05/07/2020 02:43	WG1471764
1,4-Dichlorobenzene	U		0.120	0.500	1	05/07/2020 02:43	WG1471764
Dichlorodifluoromethane	U		0.374	2.50	1	05/07/2020 02:43	WG1471764
1,1-Dichloroethane	U		0.100	0.500	1	05/07/2020 02:43	WG1471764
1,2-Dichloroethane	U		0.0819	0.500	1	05/07/2020 02:43	WG1471764
1,1-Dichloroethene	U		0.188	0.500	1	05/07/2020 02:43	WG1471764
cis-1,2-Dichloroethene	1.34		0.126	0.500	1	05/07/2020 02:43	WG1471764
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/07/2020 02:43	WG1471764
1,2-Dichloropropane	U		0.149	0.500	1	05/07/2020 02:43	WG1471764
1,1-Dichloropropene	U		0.142	0.500	1	05/07/2020 02:43	WG1471764
1,3-Dichloropropane	U		0.109	1.00	1	05/07/2020 02:43	WG1471764
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/07/2020 02:43	WG1471764
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/07/2020 02:43	WG1471764
trans-1,4-Dichloro-2-butene	U	JO J3	0.467	5.00	1	05/07/2020 02:43	WG1471764
2,2-Dichloropropane	U		0.161	0.500	1	05/07/2020 02:43	WG1471764
Di-isopropyl ether	U		0.105	0.500	1	05/07/2020 02:43	WG1471764
Ethylbenzene	U		0.137	0.500	1	05/07/2020 02:43	WG1471764
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/07/2020 02:43	WG1471764
2-Hexanone	U		0.787	5.00	1	05/07/2020 02:43	WG1471764
n-Hexane	U		0.749	5.00	1	05/07/2020 02:43	WG1471764
Iodomethane	U		0.554	5.00	1	05/07/2020 02:43	WG1471764
Isopropylbenzene	0.261	J	0.105	0.500	1	05/07/2020 02:43	WG1471764
p-Isopropyltoluene	U		0.120	0.500	1	05/07/2020 02:43	WG1471764
2-Butanone (MEK)	U	JO J3	1.19	5.00	1	05/07/2020 02:43	WG1471764
Methylene Chloride	U		0.430	2.50	1	05/07/2020 02:43	WG1471764
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/07/2020 02:43	WG1471764
Methyl tert-butyl ether	U		0.101	0.500	1	05/07/2020 02:43	WG1471764
Naphthalene	U		0.174	2.50	1	05/07/2020 02:43	WG1471764
n-Propylbenzene	U		0.0993	0.500	1	05/07/2020 02:43	WG1471764
Styrene	U		0.118	0.500	1	05/07/2020 02:43	WG1471764
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/07/2020 02:43	WG1471764
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/07/2020 02:43	WG1471764
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/07/2020 02:43	WG1471764
Tetrachloroethene	U		0.300	0.500	1	05/07/2020 02:43	WG1471764
Toluene	0.366	J	0.278	0.500	1	05/07/2020 02:43	WG1471764
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/07/2020 02:43	WG1471764
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/07/2020 02:43	WG1471764
1,1,1-Trichloroethane	U		0.149	0.500	1	05/07/2020 02:43	WG1471764
1,1,2-Trichloroethane	U		0.158	0.500	1	05/07/2020 02:43	WG1471764
Trichloroethene	U		0.190	0.500	1	05/07/2020 02:43	WG1471764
Trichlorofluoromethane	U		0.160	2.50	1	05/07/2020 02:43	WG1471764
1,2,3-Trichloropropane	U		0.237	2.50	1	05/07/2020 02:43	WG1471764
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/07/2020 02:43	WG1471764
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/07/2020 02:43	WG1471764
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/07/2020 02:43	WG1471764
Vinyl acetate	U		0.692	5.00	1	05/07/2020 02:43	WG1471764
Vinyl chloride	1.51		0.234	0.500	1	05/07/2020 02:43	WG1471764
Xylenes, Total	U		0.174	1.50	1	05/07/2020 02:43	WG1471764
(S) Toluene-d8	111			80.0-120		05/07/2020 02:43	WG1471764
(S) 4-Bromofluorobenzene	97.4			77.0-126		05/07/2020 02:43	WG1471764
(S) 1,2-Dichloroethane-d4	100			70.0-130		05/07/2020 02:43	WG1471764

- 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	695000		8450	20000	1	05/06/2020 09:38	WG1470889

Sample Narrative:

L1214811-02 WG1470889: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	108000		3790	10000	10	05/05/2020 13:47	WG1470645
Nitrate	U		48.0	100	1	05/05/2020 13:34	WG1470645
Sulfate	2930	J	594	5000	1	05/05/2020 13:34	WG1470645

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)	4300	B	102	1000	1	05/07/2020 14:53	WG1472048

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	14800		48.9	100	1	05/08/2020 11:31	WG1470978
Manganese	6300		1.32	5.00	1	05/08/2020 11:31	WG1470978

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	70.4		0.287	0.678	1	05/11/2020 11:32	WG1473785
Ethane	U		0.296	1.29	1	05/11/2020 11:32	WG1473785
Ethene	U		0.422	1.27	1	05/11/2020 11:32	WG1473785

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		11.3	25.0	1	05/07/2020 03:03	WG1471764
Acrylonitrile	U		0.671	5.00	1	05/07/2020 03:03	WG1471764
Benzene	0.114	J	0.0941	0.500	1	05/07/2020 03:03	WG1471764
Bromobenzene	U		0.118	0.500	1	05/07/2020 03:03	WG1471764
Bromodichloromethane	U		0.136	0.500	1	05/07/2020 03:03	WG1471764
Bromochloromethane	U		0.128	0.500	1	05/07/2020 03:03	WG1471764
Bromoform	U		0.129	0.500	1	05/07/2020 03:03	WG1471764
Bromomethane	U		0.605	2.50	1	05/07/2020 03:03	WG1471764
n-Butylbenzene	U		0.157	0.500	1	05/07/2020 03:03	WG1471764
sec-Butylbenzene	U		0.125	0.500	1	05/07/2020 03:03	WG1471764
tert-Butylbenzene	U		0.127	0.500	1	05/07/2020 03:03	WG1471764
Carbon disulfide	U		0.0962	0.500	1	05/07/2020 03:03	WG1471764
Carbon tetrachloride	U		0.128	0.500	1	05/07/2020 03:03	WG1471764
Chlorobenzene	U		0.117	0.500	1	05/07/2020 03:03	WG1471764
Chlorodibromomethane	U		0.140	0.500	1	05/07/2020 03:03	WG1471764
Chloroethane	U		0.192	2.50	1	05/07/2020 03:03	WG1471764
Chloroform	U		0.111	0.500	1	05/07/2020 03:03	WG1471764
Chloromethane	U		0.960	1.25	1	05/07/2020 03:03	WG1471764
2-Chlorotoluene	U		0.106	0.500	1	05/07/2020 03:03	WG1471764
4-Chlorotoluene	U		0.114	0.500	1	05/07/2020 03:03	WG1471764

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
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/07/2020 03:03	WG1471764
1,2-Dibromoethane	U		0.126	0.500	1	05/07/2020 03:03	WG1471764
Dibromomethane	U		0.122	0.500	1	05/07/2020 03:03	WG1471764
1,2-Dichlorobenzene	U		0.107	0.500	1	05/07/2020 03:03	WG1471764
1,3-Dichlorobenzene	U		0.299	0.500	1	05/07/2020 03:03	WG1471764
1,4-Dichlorobenzene	U		0.120	0.500	1	05/07/2020 03:03	WG1471764
Dichlorodifluoromethane	U		0.374	2.50	1	05/07/2020 03:03	WG1471764
1,1-Dichloroethane	U		0.100	0.500	1	05/07/2020 03:03	WG1471764
1,2-Dichloroethane	U		0.0819	0.500	1	05/07/2020 03:03	WG1471764
1,1-Dichloroethene	U		0.188	0.500	1	05/07/2020 03:03	WG1471764
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/07/2020 03:03	WG1471764
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/07/2020 03:03	WG1471764
1,2-Dichloropropane	U		0.149	0.500	1	05/07/2020 03:03	WG1471764
1,1-Dichloropropene	U		0.142	0.500	1	05/07/2020 03:03	WG1471764
1,3-Dichloropropane	U		0.109	1.00	1	05/07/2020 03:03	WG1471764
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/07/2020 03:03	WG1471764
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/07/2020 03:03	WG1471764
trans-1,4-Dichloro-2-butene	U	JO J3	0.467	5.00	1	05/07/2020 03:03	WG1471764
2,2-Dichloropropane	U		0.161	0.500	1	05/07/2020 03:03	WG1471764
Di-isopropyl ether	U		0.105	0.500	1	05/07/2020 03:03	WG1471764
Ethylbenzene	U		0.137	0.500	1	05/07/2020 03:03	WG1471764
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/07/2020 03:03	WG1471764
2-Hexanone	U		0.787	5.00	1	05/07/2020 03:03	WG1471764
n-Hexane	U		0.749	5.00	1	05/07/2020 03:03	WG1471764
Iodomethane	U		0.554	5.00	1	05/07/2020 03:03	WG1471764
Isopropylbenzene	U		0.105	0.500	1	05/07/2020 03:03	WG1471764
p-Isopropyltoluene	U		0.120	0.500	1	05/07/2020 03:03	WG1471764
2-Butanone (MEK)	U	JO J3	1.19	5.00	1	05/07/2020 03:03	WG1471764
Methylene Chloride	U		0.430	2.50	1	05/07/2020 03:03	WG1471764
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/07/2020 03:03	WG1471764
Methyl tert-butyl ether	U		0.101	0.500	1	05/07/2020 03:03	WG1471764
Naphthalene	U		0.174	2.50	1	05/07/2020 03:03	WG1471764
n-Propylbenzene	U		0.0993	0.500	1	05/07/2020 03:03	WG1471764
Styrene	U		0.118	0.500	1	05/07/2020 03:03	WG1471764
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/07/2020 03:03	WG1471764
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/07/2020 03:03	WG1471764
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/07/2020 03:03	WG1471764
Tetrachloroethene	U		0.300	0.500	1	05/07/2020 03:03	WG1471764
Toluene	0.620		0.278	0.500	1	05/07/2020 03:03	WG1471764
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/07/2020 03:03	WG1471764
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/07/2020 03:03	WG1471764
1,1,1-Trichloroethane	U		0.149	0.500	1	05/07/2020 03:03	WG1471764
1,1,2-Trichloroethane	U		0.158	0.500	1	05/07/2020 03:03	WG1471764
Trichloroethene	U		0.190	0.500	1	05/07/2020 03:03	WG1471764
Trichlorofluoromethane	U		0.160	2.50	1	05/07/2020 03:03	WG1471764
1,2,3-Trichloropropane	U		0.237	2.50	1	05/07/2020 03:03	WG1471764
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/07/2020 03:03	WG1471764
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/07/2020 03:03	WG1471764
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/07/2020 03:03	WG1471764
Vinyl acetate	U		0.692	5.00	1	05/07/2020 03:03	WG1471764
Vinyl chloride	U		0.234	0.500	1	05/07/2020 03:03	WG1471764
Xylenes, Total	0.207	J	0.174	1.50	1	05/07/2020 03:03	WG1471764
(S) Toluene-d8	111			80.0-120		05/07/2020 03:03	WG1471764
(S) 4-Bromofluorobenzene	98.8			77.0-126		05/07/2020 03:03	WG1471764
(S) 1,2-Dichloroethane-d4	101			70.0-130		05/07/2020 03:03	WG1471764

- 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	252000		8450	20000	1	05/06/2020 09:49	WG1470889

Sample Narrative:

L1214811-03 WG1470889: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	66400		379	1000	1	05/05/2020 14:25	WG1470645
Nitrate	U		48.0	100	1	05/05/2020 14:25	WG1470645
Sulfate	105000		2970	25000	5	05/05/2020 14:38	WG1470645

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)	2170	<u>B</u>	102	1000	1	05/07/2020 15:10	WG1472048

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	3290		48.9	100	1	05/08/2020 11:34	WG1470978
Manganese	2880		1.32	5.00	1	05/08/2020 11:34	WG1470978

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	757		0.287	0.678	1	05/11/2020 11:35	WG1473785
Ethane	U		0.296	1.29	1	05/11/2020 11:35	WG1473785
Ethene	U		0.422	1.27	1	05/11/2020 11:35	WG1473785

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		11.3	25.0	1	05/07/2020 03:24	WG1471764
Acrylonitrile	U		0.671	5.00	1	05/07/2020 03:24	WG1471764
Benzene	U		0.0941	0.500	1	05/07/2020 03:24	WG1471764
Bromobenzene	U		0.118	0.500	1	05/07/2020 03:24	WG1471764
Bromodichloromethane	U		0.136	0.500	1	05/07/2020 03:24	WG1471764
Bromochloromethane	U		0.128	0.500	1	05/07/2020 03:24	WG1471764
Bromoform	U		0.129	0.500	1	05/07/2020 03:24	WG1471764
Bromomethane	U		0.605	2.50	1	05/07/2020 03:24	WG1471764
n-Butylbenzene	U		0.157	0.500	1	05/07/2020 03:24	WG1471764
sec-Butylbenzene	U		0.125	0.500	1	05/07/2020 03:24	WG1471764
tert-Butylbenzene	U		0.127	0.500	1	05/07/2020 03:24	WG1471764
Carbon disulfide	U		0.0962	0.500	1	05/07/2020 03:24	WG1471764
Carbon tetrachloride	U		0.128	0.500	1	05/07/2020 03:24	WG1471764
Chlorobenzene	U		0.117	0.500	1	05/07/2020 03:24	WG1471764
Chlorodibromomethane	U		0.140	0.500	1	05/07/2020 03:24	WG1471764
Chloroethane	U		0.192	2.50	1	05/07/2020 03:24	WG1471764
Chloroform	U		0.111	0.500	1	05/07/2020 03:24	WG1471764
Chloromethane	U		0.960	1.25	1	05/07/2020 03:24	WG1471764
2-Chlorotoluene	U		0.106	0.500	1	05/07/2020 03:24	WG1471764
4-Chlorotoluene	U		0.114	0.500	1	05/07/2020 03:24	WG1471764

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
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/07/2020 03:24	WG1471764
1,2-Dibromoethane	U		0.126	0.500	1	05/07/2020 03:24	WG1471764
Dibromomethane	U		0.122	0.500	1	05/07/2020 03:24	WG1471764
1,2-Dichlorobenzene	U		0.107	0.500	1	05/07/2020 03:24	WG1471764
1,3-Dichlorobenzene	U		0.299	0.500	1	05/07/2020 03:24	WG1471764
1,4-Dichlorobenzene	U		0.120	0.500	1	05/07/2020 03:24	WG1471764
Dichlorodifluoromethane	U		0.374	2.50	1	05/07/2020 03:24	WG1471764
1,1-Dichloroethane	U		0.100	0.500	1	05/07/2020 03:24	WG1471764
1,2-Dichloroethane	U		0.0819	0.500	1	05/07/2020 03:24	WG1471764
1,1-Dichloroethene	U		0.188	0.500	1	05/07/2020 03:24	WG1471764
cis-1,2-Dichloroethene	0.419	J	0.126	0.500	1	05/07/2020 03:24	WG1471764
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/07/2020 03:24	WG1471764
1,2-Dichloropropane	U		0.149	0.500	1	05/07/2020 03:24	WG1471764
1,1-Dichloropropene	U		0.142	0.500	1	05/07/2020 03:24	WG1471764
1,3-Dichloropropane	U		0.109	1.00	1	05/07/2020 03:24	WG1471764
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/07/2020 03:24	WG1471764
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/07/2020 03:24	WG1471764
trans-1,4-Dichloro-2-butene	U	JO J3	0.467	5.00	1	05/07/2020 03:24	WG1471764
2,2-Dichloropropane	U		0.161	0.500	1	05/07/2020 03:24	WG1471764
Di-isopropyl ether	U		0.105	0.500	1	05/07/2020 03:24	WG1471764
Ethylbenzene	U		0.137	0.500	1	05/07/2020 03:24	WG1471764
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/07/2020 03:24	WG1471764
2-Hexanone	U		0.787	5.00	1	05/07/2020 03:24	WG1471764
n-Hexane	U		0.749	5.00	1	05/07/2020 03:24	WG1471764
Iodomethane	U		0.554	5.00	1	05/07/2020 03:24	WG1471764
Isopropylbenzene	U		0.105	0.500	1	05/07/2020 03:24	WG1471764
p-Isopropyltoluene	U		0.120	0.500	1	05/07/2020 03:24	WG1471764
2-Butanone (MEK)	U	JO J3	1.19	5.00	1	05/07/2020 03:24	WG1471764
Methylene Chloride	U		0.430	2.50	1	05/07/2020 03:24	WG1471764
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/07/2020 03:24	WG1471764
Methyl tert-butyl ether	U		0.101	0.500	1	05/07/2020 03:24	WG1471764
Naphthalene	U		0.174	2.50	1	05/07/2020 03:24	WG1471764
n-Propylbenzene	U		0.0993	0.500	1	05/07/2020 03:24	WG1471764
Styrene	U		0.118	0.500	1	05/07/2020 03:24	WG1471764
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/07/2020 03:24	WG1471764
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/07/2020 03:24	WG1471764
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/07/2020 03:24	WG1471764
Tetrachloroethene	U		0.300	0.500	1	05/07/2020 03:24	WG1471764
Toluene	U		0.278	0.500	1	05/07/2020 03:24	WG1471764
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/07/2020 03:24	WG1471764
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/07/2020 03:24	WG1471764
1,1,1-Trichloroethane	U		0.149	0.500	1	05/07/2020 03:24	WG1471764
1,1,2-Trichloroethane	U		0.158	0.500	1	05/07/2020 03:24	WG1471764
Trichloroethene	U		0.190	0.500	1	05/07/2020 03:24	WG1471764
Trichlorofluoromethane	U		0.160	2.50	1	05/07/2020 03:24	WG1471764
1,2,3-Trichloropropane	U		0.237	2.50	1	05/07/2020 03:24	WG1471764
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/07/2020 03:24	WG1471764
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/07/2020 03:24	WG1471764
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/07/2020 03:24	WG1471764
Vinyl acetate	U		0.692	5.00	1	05/07/2020 03:24	WG1471764
Vinyl chloride	U		0.234	0.500	1	05/07/2020 03:24	WG1471764
Xylenes, Total	U		0.174	1.50	1	05/07/2020 03:24	WG1471764
(S) Toluene-d8	107			80.0-120		05/07/2020 03:24	WG1471764
(S) 4-Bromofluorobenzene	97.1			77.0-126		05/07/2020 03:24	WG1471764
(S) 1,2-Dichloroethane-d4	99.4			70.0-130		05/07/2020 03:24	WG1471764

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



Method Blank (MB)

(MB) R3525170-1 05/06/20 08:44

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1214811-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1214811-01 05/06/20 09:14 • (DUP) R3525170-2 05/06/20 09:28

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	174000	173000	1	0.462		20

Sample Narrative:

OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

L1215018-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1215018-07 05/06/20 11:55 • (DUP) R3525170-4 05/06/20 12:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	60700	60100	1	0.983		20

Sample Narrative:

OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3525170-3 05/06/20 10:35

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	102000	102	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3525021-1 05/05/20 09:53

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Chloride	U		379	1000
Nitrate	U		48.0	100
Sulfate	U		594	5000

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1214814-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1214814-01 05/05/20 11:34 • (DUP) R3525021-3 05/05/20 11:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	1800	1210	1	39.3	P1	15
Nitrate	U	0.000	1	0.000		15
Sulfate	U	0.000	1	0.000		15

L1214856-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1214856-02 05/05/20 17:26 • (DUP) R3525021-6 05/05/20 17:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	58500	57800	1	1.17		15
Nitrate	2290	2260	1	1.19		15
Sulfate	42500	42100	1	1.05		15

Laboratory Control Sample (LCS)

(LCS) R3525021-2 05/05/20 10:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Chloride	40000	39800	99.5	80.0-120	
Nitrate	8000	8160	102	80.0-120	
Sulfate	40000	40300	101	80.0-120	



[L1214811-01,02,03](#)

L1214811-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1214811-01 05/05/20 12:43 • (MS) R3525021-4 05/05/20 12:56 • (MSD) R3525021-5 05/05/20 13:09

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	14200	63500	60400	98.6	92.4	1	80.0-120			5.00	15
Nitrate	5000	351	5410	5140	101	95.8	1	80.0-120			5.00	15
Sulfate	50000	9650	59400	56600	99.4	93.9	1	80.0-120			4.72	15

L1214856-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1214856-03 05/05/20 17:52 • (MS) R3525021-7 05/05/20 18:05

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	17600	64000	92.8	1	80.0-120	
Nitrate	5000	7310	11700	86.9	1	80.0-120	E
Sulfate	50000	19900	66100	92.4	1	80.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3526037-1 05/07/20 23:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	247	↓	102	1000

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1214418-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1214418-07 05/08/20 03:15 • (DUP) R3526037-5 05/08/20 03:31

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	4700	4710	1	0.297		20

L1214554-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1214554-14 05/08/20 13:22 • (DUP) R3526037-9 05/08/20 13:36

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC	4480	4320	1	3.55		20

Laboratory Control Sample (LCS)

(LCS) R3526037-2 05/08/20 00:10

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC	75000	80500	107	85.0-115	

L1214418-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1214418-05 05/08/20 01:08 • (MS) R3526037-3 05/08/20 01:25 • (MSD) R3526037-4 05/08/20 01:41

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	2900	58500	60800	111	116	1	80.0-120			3.74	20

L1214811-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1214811-01 05/08/20 07:04 • (MS) R3526037-7 05/08/20 07:21 • (MSD) R3526037-8 05/08/20 07:38

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	2680	60100	59000	115	113	1	80.0-120			1.80	20



Method Blank (MB)

(MB) R3526036-1 05/07/20 13:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	530	J	102	1000

1 Cp

2 Tc

3 Ss

L1215018-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1215018-05 05/07/20 18:04 • (DUP) R3526036-5 05/07/20 18:17

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	389	283	1	31.6	J P1	20

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3526036-2 05/07/20 13:47

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	76600	102	85.0-115	

6 Qc

7 Gl

L1215018-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1215018-02 05/07/20 15:51 • (MS) R3526036-3 05/07/20 16:08 • (MSD) R3526036-4 05/07/20 16:24

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	360	52600	51400	104	102	1	80.0-120			2.21	20

8 Al

9 Sc



Method Blank (MB)

(MB) R3525984-1 05/08/20 10:45

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		48.9	100
Manganese	U		1.32	5.00

¹ Cp

² Tc

³ Ss

⁴ Cn

Laboratory Control Sample (LCS)

(LCS) R3525984-2 05/08/20 10:48

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron	5000	4970	99.3	80.0-120	
Manganese	50.0	49.3	98.6	80.0-120	

⁵ Sr

⁶ Qc

L1214387-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1214387-02 05/08/20 12:08 • (MS) R3525984-9 05/08/20 12:18 • (MSD) R3525984-10 05/08/20 12:21

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	ND	4750	4900	95.0	97.9	1	75.0-125			2.97	20
Manganese	50.0	ND	50.7	50.7	94.2	94.2	1	75.0-125			0.0273	20

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3526599-2 05/11/20 10:34

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

L1214418-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1214418-07 05/11/20 10:53 • (DUP) R3526599-3 05/11/20 11:24

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	16800	16600	10	1.20		20
Ethane	U	0.000	10	0.000		20
Ethene	U	0.000	10	0.000		20

L1214811-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1214811-01 05/11/20 11:30 • (DUP) R3526599-4 05/11/20 12:07

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	1040	1110	1	6.51		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

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

(LCS) R3526599-1 05/11/20 10:07 • (LCSD) R3526599-5 05/11/20 12:57

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	63.9	96.5	94.2	85.0-115			2.32	20
Ethane	129	121	125	93.8	96.9	85.0-115			3.25	20
Ethene	127	115	119	90.6	93.7	85.0-115			3.42	20

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



Method Blank (MB)

(MB) R3525493-3 05/06/20 22:26

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromochloromethane	U		0.128	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
trans-1,4-Dichloro-2-butene	U		0.467	5.00
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500

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



Method Blank (MB)

(MB) R3525493-3 05/06/20 22:26

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	0.500
Hexachloro-1,3-butadiene	U		0.337	1.00
2-Hexanone	U		0.787	5.00
n-Hexane	U		0.749	5.00
Iodomethane	U		0.554	5.00
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	0.500
1,2,4-Trimethylbenzene	U		0.322	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl acetate	U		0.692	5.00
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	109			80.0-120
(S) 4-Bromofluorobenzene	96.3			77.0-126
(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) R3525493-1 05/06/20 21:25 • (LCSD) R3525493-2 05/06/20 21:45

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	22.4	25.0	89.6	100	19.0-160			11.0	27
Acrylonitrile	25.0	22.0	24.0	88.0	96.0	55.0-149			8.70	20
Benzene	5.00	4.65	4.72	93.0	94.4	70.0-123			1.49	20
Bromobenzene	5.00	4.59	5.12	91.8	102	73.0-121			10.9	20
Bromodichloromethane	5.00	4.46	4.74	89.2	94.8	75.0-120			6.09	20
Bromochloromethane	5.00	5.10	5.29	102	106	76.0-122			3.66	20
Bromoform	5.00	4.45	4.59	89.0	91.8	68.0-132			3.10	20
Bromomethane	5.00	5.50	4.90	110	98.0	10.0-160			11.5	25
n-Butylbenzene	5.00	4.95	4.97	99.0	99.4	73.0-125			0.403	20
sec-Butylbenzene	5.00	4.59	4.63	91.8	92.6	75.0-125			0.868	20
tert-Butylbenzene	5.00	4.56	4.98	91.2	99.6	76.0-124			8.81	20
Carbon disulfide	5.00	5.07	4.83	101	96.6	61.0-128			4.85	20
Carbon tetrachloride	5.00	5.17	4.88	103	97.6	68.0-126			5.77	20
Chlorobenzene	5.00	5.02	5.10	100	102	80.0-121			1.58	20
Chlorodibromomethane	5.00	4.85	4.80	97.0	96.0	77.0-125			1.04	20
Chloroethane	5.00	6.05	5.71	121	114	47.0-150			5.78	20
Chloroform	5.00	4.90	4.60	98.0	92.0	73.0-120			6.32	20
Chloromethane	5.00	5.81	5.38	116	108	41.0-142			7.69	20
2-Chlorotoluene	5.00	5.06	5.04	101	101	76.0-123			0.396	20
4-Chlorotoluene	5.00	5.00	4.96	100	99.2	75.0-122			0.803	20
1,2-Dibromo-3-Chloropropane	5.00	4.02	4.43	80.4	88.6	58.0-134			9.70	20
1,2-Dibromoethane	5.00	4.85	5.04	97.0	101	80.0-122			3.84	20
Dibromomethane	5.00	4.73	4.83	94.6	96.6	80.0-120			2.09	20
1,2-Dichlorobenzene	5.00	4.82	4.98	96.4	99.6	79.0-121			3.27	20
1,3-Dichlorobenzene	5.00	5.02	5.18	100	104	79.0-120			3.14	20
1,4-Dichlorobenzene	5.00	4.99	5.10	99.8	102	79.0-120			2.18	20
trans-1,4-Dichloro-2-butene	5.00	2.43	3.22	48.6	64.4	33.0-144		<u>J3</u>	28.0	20
Dichlorodifluoromethane	5.00	6.06	6.05	121	121	51.0-149			0.165	20
1,1-Dichloroethane	5.00	4.83	4.78	96.6	95.6	70.0-126			1.04	20
1,2-Dichloroethane	5.00	4.67	5.11	93.4	102	70.0-128			9.00	20
1,1-Dichloroethene	5.00	4.77	4.67	95.4	93.4	71.0-124			2.12	20
cis-1,2-Dichloroethene	5.00	5.04	4.71	101	94.2	73.0-120			6.77	20
trans-1,2-Dichloroethene	5.00	4.94	4.69	98.8	93.8	73.0-120			5.19	20
1,2-Dichloropropane	5.00	4.90	4.74	98.0	94.8	77.0-125			3.32	20
1,1-Dichloropropene	5.00	4.87	4.80	97.4	96.0	74.0-126			1.45	20
1,3-Dichloropropane	5.00	4.45	4.56	89.0	91.2	80.0-120			2.44	20
cis-1,3-Dichloropropene	5.00	4.19	4.51	83.8	90.2	80.0-123			7.36	20
trans-1,3-Dichloropropene	5.00	4.66	4.73	93.2	94.6	78.0-124			1.49	20
2,2-Dichloropropane	5.00	4.90	4.83	98.0	96.6	58.0-130			1.44	20
Di-isopropyl ether	5.00	5.02	4.88	100	97.6	58.0-138			2.83	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) R3525493-1 05/06/20 21:25 • (LCSD) R3525493-2 05/06/20 21:45

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 %
Ethylbenzene	5.00	5.30	5.07	106	101	79.0-123			4.44	20
Hexachloro-1,3-butadiene	5.00	4.47	5.24	89.4	105	54.0-138			15.9	20
2-Hexanone	25.0	18.6	21.5	74.4	86.0	67.0-149			14.5	20
n-Hexane	5.00	5.44	5.30	109	106	57.0-133			2.61	20
Iodomethane	25.0	26.3	24.9	105	99.6	33.0-147			5.47	26
Isopropylbenzene	5.00	4.95	4.64	99.0	92.8	76.0-127			6.47	20
p-Isopropyltoluene	5.00	4.80	4.79	96.0	95.8	76.0-125			0.209	20
2-Butanone (MEK)	25.0	16.5	21.7	66.0	86.8	44.0-160		J3	27.2	20
Methylene Chloride	5.00	5.46	4.97	109	99.4	67.0-120			9.40	20
4-Methyl-2-pentanone (MIBK)	25.0	21.4	22.9	85.6	91.6	68.0-142			6.77	20
Methyl tert-butyl ether	5.00	4.78	4.75	95.6	95.0	68.0-125			0.630	20
Naphthalene	5.00	3.81	4.03	76.2	80.6	54.0-135			5.61	20
n-Propylbenzene	5.00	4.98	5.15	99.6	103	77.0-124			3.36	20
Styrene	5.00	4.66	4.75	93.2	95.0	73.0-130			1.91	20
1,1,1,2-Tetrachloroethane	5.00	5.13	4.97	103	99.4	75.0-125			3.17	20
1,1,2,2-Tetrachloroethane	5.00	4.52	4.79	90.4	95.8	65.0-130			5.80	20
Tetrachloroethene	5.00	5.47	5.40	109	108	72.0-132			1.29	20
Toluene	5.00	4.67	4.53	93.4	90.6	79.0-120			3.04	20
1,1,2-Trichlorotrifluoroethane	5.00	5.24	5.36	105	107	69.0-132			2.26	20
1,2,3-Trichlorobenzene	5.00	4.23	4.11	84.6	82.2	50.0-138			2.88	20
1,2,4-Trichlorobenzene	5.00	4.91	5.11	98.2	102	57.0-137			3.99	20
1,1,1-Trichloroethane	5.00	5.00	4.85	100	97.0	73.0-124			3.05	20
1,1,2-Trichloroethane	5.00	4.66	4.94	93.2	98.8	80.0-120			5.83	20
Trichloroethene	5.00	4.86	4.80	97.2	96.0	78.0-124			1.24	20
Trichlorofluoromethane	5.00	5.53	5.15	111	103	59.0-147			7.12	20
1,2,3-Trichloropropane	5.00	4.79	5.52	95.8	110	73.0-130			14.2	20
1,2,3-Trimethylbenzene	5.00	4.86	5.02	97.2	100	77.0-120			3.24	20
1,2,4-Trimethylbenzene	5.00	4.65	4.91	93.0	98.2	76.0-121			5.44	20
1,3,5-Trimethylbenzene	5.00	5.08	5.11	102	102	76.0-122			0.589	20
Vinyl acetate	25.0	22.4	24.8	89.6	99.2	11.0-160			10.2	20
Vinyl chloride	5.00	5.87	5.72	117	114	67.0-131			2.59	20
Xylenes, Total	15.0	14.8	14.0	98.7	93.3	79.0-123			5.56	20
(S) Toluene-d8				105	107	80.0-120				
(S) 4-Bromofluorobenzene				86.6	88.7	77.0-126				
(S) 1,2-Dichloroethane-d4				95.5	97.5	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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.
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.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
J3	The associated batch QC was outside the established quality control range for precision.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
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}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

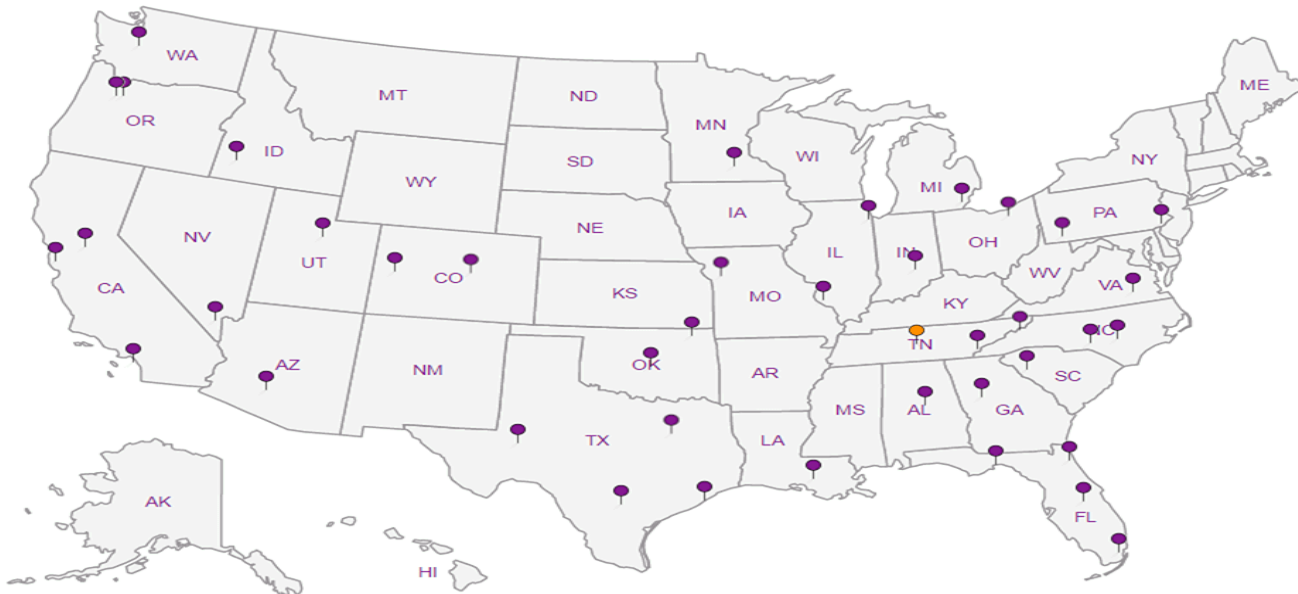
Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:

Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres
Chk

Analysis / Container / Preservative



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



SDG # L1214811
F157

Acctnum: **PESENVSWA**

Template: **T166998**

Prelogin: **P770399**

PM: **110 - Brian Ford**

PB:

Shipped Via:

Remarks | Sample # (lab only)

Report to: **Brian O'Neal/Bill Haldeman**
Email To: **boneal@pesenv.com; bhaldeman@pesenv.com;**

Project Description: **American Linen** City/State Collected: **Seattle, WA** Please Circle: **PT MT CT ET**

Phone: **206-529-3980** Client Project # **American Linen** Lab Project # **PESENVSWA-ALP**

Collected by (print): **Hannah Cohen** Site/Facility ID # **1413.001.02.501E4** P.O. #

Collected by (signature): **Hannah Cohen** **Rush?** (Lab MUST Be Notified) Quote #

Immediately Packed on Ice **N** **Y** **Three Day** **Five Day** **5 Day (Rad Only)** **10 Day (Rad Only)** Date Results Needed

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NO3,Cl,S04 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlHDPE-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs 8260D LL 40mlAmb-HCl					
MW-342-050420	Grab	GW	65	5/4/20	1050	9	X	X	X		X	X	X					-01
MW-343-050420	1	GW	103	1	1215	9	X	X	X		X	X	X					-02
MW-332-050420	1		28	1	1405	9	X	X	X		X	X	X					-03

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

Remarks: *Nitrate has a 48 hour holding time.

pH _____ Temp _____
Flow _____ Other _____

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

Samples returned via:
 UPS FedEx Courier

Tracking # **1749 9998 8534**

Relinquished by: (Signature) Hannah Cohen	Date: 5/4/20	Time: 1600	Received by: (Signature)	Trip Blank Received: Yes/No NO HCL/MeOH TBR	Bottles Received: 27	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 23.5 °C		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) L. White	Date: 5/5/20 Time: 08:45	Hold:	

Condition: **NCF / OK**

May 13, 2020

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

PES Environmental, Inc.- WA

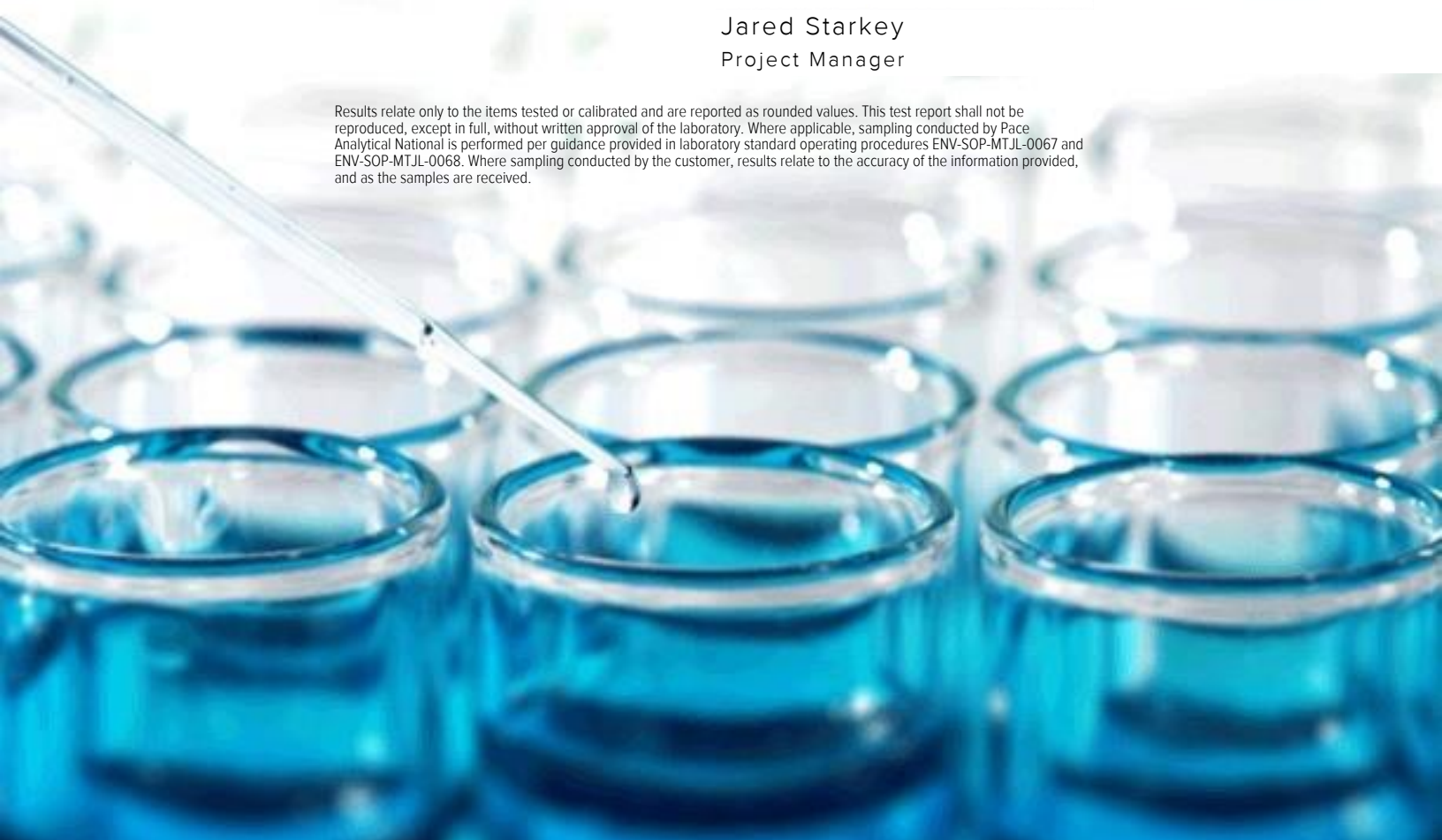
Sample Delivery Group: L1215318
Samples Received: 05/06/2020
Project Number: 1413.001.02.501E
Description: American Linen
Site: AMERICAN LINEN
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

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.





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SAMPLE SUMMARY



MW-169-050520 L1215318-01 GW

Method	Batch	Dilution	Preparation date/time	Collected by	Collected date/time	Received date/time	Location
				HRC/BLH	05/05/20 09:25	05/06/20 08:45	
Wet Chemistry by Method 2320 B-2011	WG1471423	1	05/07/20 14:20		05/07/20 14:20	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1471206	1	05/06/20 16:01		05/06/20 16:01	ST	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1471206	5	05/06/20 16:11		05/06/20 16:11	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472815	1	05/08/20 16:48		05/08/20 16:48	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1472548	1	05/08/20 13:11		05/08/20 17:17	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1474063	5	05/13/20 05:38		05/13/20 05:38	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1473786	1	05/11/20 13:37		05/11/20 13:37	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1474309	10	05/12/20 13:08		05/12/20 13:08	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1474847	1	05/13/20 09:51		05/13/20 09:51	ADM	Mt. Juliet, TN

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Al

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MW-336-050520 L1215318-02 GW

Method	Batch	Dilution	Preparation date/time	Collected by	Collected date/time	Received date/time	Location
				HRC/BLH	05/05/20 10:15	05/06/20 08:45	
Wet Chemistry by Method 2320 B-2011	WG1471423	1	05/07/20 14:38		05/07/20 14:38	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1471206	1	05/06/20 16:22		05/06/20 16:22	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472815	1	05/08/20 17:09		05/08/20 17:09	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1472548	1	05/08/20 13:11		05/08/20 17:21	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1473786	1	05/11/20 13:42		05/11/20 13:42	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1472450	1	05/07/20 23:12		05/07/20 23:12	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1474615	1	05/13/20 04:39		05/13/20 04:39	ADM	Mt. Juliet, TN

MW123-050520 L1215318-03 GW

Method	Batch	Dilution	Preparation date/time	Collected by	Collected date/time	Received date/time	Location
				HRC/BLH	05/05/20 12:20	05/06/20 08:45	
Wet Chemistry by Method 2320 B-2011	WG1471423	1	05/07/20 14:48		05/07/20 14:48	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1471206	1	05/06/20 16:44		05/06/20 16:44	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472815	1	05/08/20 17:28		05/08/20 17:28	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1472548	1	05/08/20 13:11		05/08/20 17:24	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1473786	1	05/11/20 13:46		05/11/20 13:46	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1472450	1	05/07/20 23:33		05/07/20 23:33	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1474615	1	05/13/20 05:00		05/13/20 05:00	ADM	Mt. Juliet, TN

MW-155-050520 L1215318-04 GW

Method	Batch	Dilution	Preparation date/time	Collected by	Collected date/time	Received date/time	Location
				HRC/BLH	05/05/20 13:50	05/06/20 08:45	
Wet Chemistry by Method 2320 B-2011	WG1471423	1	05/07/20 14:56		05/07/20 14:56	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1471206	1	05/06/20 16:55		05/06/20 16:55	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472815	1	05/08/20 19:45		05/08/20 19:45	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1472548	1	05/08/20 13:11		05/08/20 17:27	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1474063	1	05/13/20 06:02		05/13/20 06:02	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1473786	1	05/11/20 13:53		05/11/20 13:53	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1472450	1	05/07/20 23:53		05/07/20 23:53	JAH	Mt. Juliet, TN

SAMPLE SUMMARY

MW115-050520 L1215318-05 GW

Collected by HRC/BLH Collected date/time 05/05/20 14:25 Received date/time 05/06/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1471423	1	05/07/20 15:05	05/07/20 15:05	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1471206	1	05/06/20 17:06	05/06/20 17:06	ST	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1471206	5	05/06/20 19:16	05/06/20 19:16	ST	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472815	1	05/08/20 20:53	05/08/20 20:53	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1472548	1	05/08/20 13:11	05/08/20 17:41	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1473786	1	05/11/20 14:19	05/11/20 14:19	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1472450	1	05/08/20 00:14	05/08/20 00:14	JAH	Mt. Juliet, TN

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



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	601000		8450	20000	1	05/07/2020 14:20	WG1471423

Sample Narrative:

L1215318-01 WG1471423: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	147000		1900	5000	5	05/06/2020 16:11	WG1471206
Nitrate	225		48.0	100	1	05/06/2020 16:01	WG1471206
Sulfate	U		594	5000	1	05/06/2020 16:01	WG1471206

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)	19200		102	1000	1	05/08/2020 16:48	WG1472815

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	5100		48.9	100	1	05/08/2020 17:17	WG1472548
Manganese	821		1.32	5.00	1	05/08/2020 17:17	WG1472548

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	U		158	500	5	05/13/2020 05:38	WG1474063
(S) a,a,a-Trifluorotoluene(FID)	99.2			78.0-120		05/13/2020 05:38	WG1474063

Sample Narrative:

L1215318-01 WG1474063: Lowest possible dilution due to sample foaming.

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	18700		2.87	6.78	10	05/12/2020 13:08	WG1474309
Ethane	336		0.296	1.29	1	05/11/2020 13:37	WG1473786
Ethene	1180		0.422	1.27	1	05/11/2020 13:37	WG1473786

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		11.3	25.0	1	05/13/2020 09:51	WG1474847
Acrylonitrile	U		0.671	5.00	1	05/13/2020 09:51	WG1474847
Benzene	0.127	J	0.0941	0.500	1	05/13/2020 09:51	WG1474847
Bromobenzene	U		0.118	0.500	1	05/13/2020 09:51	WG1474847
Bromodichloromethane	U		0.136	0.500	1	05/13/2020 09:51	WG1474847
Bromochloromethane	U		0.128	0.500	1	05/13/2020 09:51	WG1474847
Bromoform	U		0.129	0.500	1	05/13/2020 09:51	WG1474847
Bromomethane	U		0.605	2.50	1	05/13/2020 09:51	WG1474847
n-Butylbenzene	U		0.157	0.500	1	05/13/2020 09:51	WG1474847
sec-Butylbenzene	U		0.125	0.500	1	05/13/2020 09:51	WG1474847

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
tert-Butylbenzene	U		0.127	0.500	1	05/13/2020 09:51	WG1474847
Carbon disulfide	0.527		0.0962	0.500	1	05/13/2020 09:51	WG1474847
Carbon tetrachloride	U		0.128	0.500	1	05/13/2020 09:51	WG1474847
Chlorobenzene	U		0.117	0.500	1	05/13/2020 09:51	WG1474847
Chlorodibromomethane	U		0.140	0.500	1	05/13/2020 09:51	WG1474847
Chloroethane	U		0.192	2.50	1	05/13/2020 09:51	WG1474847
Chloroform	U		0.111	0.500	1	05/13/2020 09:51	WG1474847
Chloromethane	U		0.960	1.25	1	05/13/2020 09:51	WG1474847
2-Chlorotoluene	U		0.106	0.500	1	05/13/2020 09:51	WG1474847
4-Chlorotoluene	U		0.114	0.500	1	05/13/2020 09:51	WG1474847
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/13/2020 09:51	WG1474847
1,2-Dibromoethane	U		0.126	0.500	1	05/13/2020 09:51	WG1474847
Dibromomethane	U		0.122	0.500	1	05/13/2020 09:51	WG1474847
1,2-Dichlorobenzene	U		0.107	0.500	1	05/13/2020 09:51	WG1474847
1,3-Dichlorobenzene	U		0.299	0.500	1	05/13/2020 09:51	WG1474847
1,4-Dichlorobenzene	U		0.120	0.500	1	05/13/2020 09:51	WG1474847
Dichlorodifluoromethane	U		0.374	2.50	1	05/13/2020 09:51	WG1474847
1,1-Dichloroethane	U		0.100	0.500	1	05/13/2020 09:51	WG1474847
1,2-Dichloroethane	U		0.0819	0.500	1	05/13/2020 09:51	WG1474847
1,1-Dichloroethene	U		0.188	0.500	1	05/13/2020 09:51	WG1474847
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/13/2020 09:51	WG1474847
trans-1,2-Dichloroethene	2.20		0.149	0.500	1	05/13/2020 09:51	WG1474847
1,2-Dichloropropane	U		0.149	0.500	1	05/13/2020 09:51	WG1474847
1,1-Dichloropropene	U		0.142	0.500	1	05/13/2020 09:51	WG1474847
1,3-Dichloropropane	U		0.109	1.00	1	05/13/2020 09:51	WG1474847
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/13/2020 09:51	WG1474847
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/13/2020 09:51	WG1474847
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/13/2020 09:51	WG1474847
2,2-Dichloropropane	U		0.161	0.500	1	05/13/2020 09:51	WG1474847
Di-isopropyl ether	U		0.105	0.500	1	05/13/2020 09:51	WG1474847
Ethylbenzene	U		0.137	0.500	1	05/13/2020 09:51	WG1474847
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/13/2020 09:51	WG1474847
2-Hexanone	U		0.787	5.00	1	05/13/2020 09:51	WG1474847
n-Hexane	1.32	U	0.749	5.00	1	05/13/2020 09:51	WG1474847
Iodomethane	U		0.554	5.00	1	05/13/2020 09:51	WG1474847
Isopropylbenzene	U		0.105	0.500	1	05/13/2020 09:51	WG1474847
p-Isopropyltoluene	U		0.120	0.500	1	05/13/2020 09:51	WG1474847
2-Butanone (MEK)	U		1.19	5.00	1	05/13/2020 09:51	WG1474847
Methylene Chloride	U		0.430	2.50	1	05/13/2020 09:51	WG1474847
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/13/2020 09:51	WG1474847
Methyl tert-butyl ether	U		0.101	0.500	1	05/13/2020 09:51	WG1474847
Naphthalene	0.176	U	0.174	2.50	1	05/13/2020 09:51	WG1474847
n-Propylbenzene	U		0.0993	0.500	1	05/13/2020 09:51	WG1474847
Styrene	U		0.118	0.500	1	05/13/2020 09:51	WG1474847
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/13/2020 09:51	WG1474847
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/13/2020 09:51	WG1474847
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/13/2020 09:51	WG1474847
Tetrachloroethene	U		0.300	0.500	1	05/13/2020 09:51	WG1474847
Toluene	0.388	U	0.278	0.500	1	05/13/2020 09:51	WG1474847
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/13/2020 09:51	WG1474847
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/13/2020 09:51	WG1474847
1,1,1-Trichloroethane	U		0.149	0.500	1	05/13/2020 09:51	WG1474847
1,1,2-Trichloroethane	U		0.158	0.500	1	05/13/2020 09:51	WG1474847
Trichloroethene	U		0.190	0.500	1	05/13/2020 09:51	WG1474847
Trichlorofluoromethane	U		0.160	2.50	1	05/13/2020 09:51	WG1474847
1,2,3-Trichloropropane	U		0.237	2.50	1	05/13/2020 09:51	WG1474847

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
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/13/2020 09:51	WG1474847
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/13/2020 09:51	WG1474847
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/13/2020 09:51	WG1474847
Vinyl acetate	U		0.692	5.00	1	05/13/2020 09:51	WG1474847
Vinyl chloride	40.5		0.234	0.500	1	05/13/2020 09:51	WG1474847
Xylenes, Total	0.493	J	0.174	1.50	1	05/13/2020 09:51	WG1474847
(S) Toluene-d8	110			80.0-120		05/13/2020 09:51	WG1474847
(S) 4-Bromofluorobenzene	105			77.0-126		05/13/2020 09:51	WG1474847
(S) 1,2-Dichloroethane-d4	119			70.0-130		05/13/2020 09:51	WG1474847

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	511000		8450	20000	1	05/07/2020 14:38	WG1471423

Sample Narrative:

L1215318-02 WG1471423: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	37500		379	1000	1	05/06/2020 16:22	WG1471206
Nitrate	U		48.0	100	1	05/06/2020 16:22	WG1471206
Sulfate	74300		594	5000	1	05/06/2020 16:22	WG1471206

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	<u>B</u>	102	1000	1	05/08/2020 17:09	WG1472815

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	10500		48.9	100	1	05/08/2020 17:21	WG1472548
Manganese	596		1.32	5.00	1	05/08/2020 17:21	WG1472548

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	271		0.287	0.678	1	05/11/2020 13:42	WG1473786
Ethane	U		0.296	1.29	1	05/11/2020 13:42	WG1473786
Ethene	U		0.422	1.27	1	05/11/2020 13:42	WG1473786

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		11.3	25.0	1	05/07/2020 23:12	WG1472450
Acrylonitrile	U		0.671	5.00	1	05/07/2020 23:12	WG1472450
Benzene	U		0.0941	0.500	1	05/07/2020 23:12	WG1472450
Bromobenzene	U		0.118	0.500	1	05/07/2020 23:12	WG1472450
Bromodichloromethane	U		0.136	0.500	1	05/07/2020 23:12	WG1472450
Bromochloromethane	U		0.128	0.500	1	05/07/2020 23:12	WG1472450
Bromoform	U		0.129	0.500	1	05/07/2020 23:12	WG1472450
Bromomethane	U		0.605	2.50	1	05/07/2020 23:12	WG1472450
n-Butylbenzene	U		0.157	0.500	1	05/07/2020 23:12	WG1472450
sec-Butylbenzene	U		0.125	0.500	1	05/07/2020 23:12	WG1472450
tert-Butylbenzene	U		0.127	0.500	1	05/07/2020 23:12	WG1472450
Carbon disulfide	U		0.0962	0.500	1	05/07/2020 23:12	WG1472450
Carbon tetrachloride	U		0.128	0.500	1	05/07/2020 23:12	WG1472450
Chlorobenzene	U		0.117	0.500	1	05/07/2020 23:12	WG1472450
Chlorodibromomethane	U		0.140	0.500	1	05/07/2020 23:12	WG1472450
Chloroethane	U		0.192	2.50	1	05/07/2020 23:12	WG1472450
Chloroform	U		0.111	0.500	1	05/07/2020 23:12	WG1472450
Chloromethane	U		0.960	1.25	1	05/07/2020 23:12	WG1472450
2-Chlorotoluene	U		0.106	0.500	1	05/07/2020 23:12	WG1472450
4-Chlorotoluene	U		0.114	0.500	1	05/07/2020 23:12	WG1472450

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	
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/07/2020 23:12	WG1472450
1,2-Dibromoethane	U		0.126	0.500	1	05/07/2020 23:12	WG1472450
Dibromomethane	U		0.122	0.500	1	05/07/2020 23:12	WG1472450
1,2-Dichlorobenzene	U		0.107	0.500	1	05/07/2020 23:12	WG1472450
1,3-Dichlorobenzene	U		0.299	0.500	1	05/07/2020 23:12	WG1472450
1,4-Dichlorobenzene	U		0.120	0.500	1	05/07/2020 23:12	WG1472450
Dichlorodifluoromethane	U		0.374	2.50	1	05/07/2020 23:12	WG1472450
1,1-Dichloroethane	U		0.100	0.500	1	05/07/2020 23:12	WG1472450
1,2-Dichloroethane	U		0.0819	0.500	1	05/07/2020 23:12	WG1472450
1,1-Dichloroethene	U		0.188	0.500	1	05/07/2020 23:12	WG1472450
cis-1,2-Dichloroethene	57.1		0.126	0.500	1	05/07/2020 23:12	WG1472450
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/07/2020 23:12	WG1472450
1,2-Dichloropropane	U		0.149	0.500	1	05/07/2020 23:12	WG1472450
1,1-Dichloropropene	U		0.142	0.500	1	05/07/2020 23:12	WG1472450
1,3-Dichloropropane	U		0.109	1.00	1	05/07/2020 23:12	WG1472450
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/07/2020 23:12	WG1472450
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/07/2020 23:12	WG1472450
trans-1,4-Dichloro-2-butene	U	JO	0.467	5.00	1	05/07/2020 23:12	WG1472450
2,2-Dichloropropane	U		0.161	0.500	1	05/07/2020 23:12	WG1472450
Di-isopropyl ether	U		0.105	0.500	1	05/07/2020 23:12	WG1472450
Ethylbenzene	U		0.137	0.500	1	05/07/2020 23:12	WG1472450
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/07/2020 23:12	WG1472450
2-Hexanone	U		0.787	5.00	1	05/07/2020 23:12	WG1472450
n-Hexane	U		0.749	5.00	1	05/07/2020 23:12	WG1472450
Iodomethane	U		0.554	5.00	1	05/07/2020 23:12	WG1472450
Isopropylbenzene	U		0.105	0.500	1	05/07/2020 23:12	WG1472450
p-Isopropyltoluene	U		0.120	0.500	1	05/07/2020 23:12	WG1472450
2-Butanone (MEK)	U		1.19	5.00	1	05/07/2020 23:12	WG1472450
Methylene Chloride	U		0.430	2.50	1	05/07/2020 23:12	WG1472450
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/07/2020 23:12	WG1472450
Methyl tert-butyl ether	U		0.101	0.500	1	05/07/2020 23:12	WG1472450
Naphthalene	U	JO	0.174	2.50	1	05/07/2020 23:12	WG1472450
n-Propylbenzene	U		0.0993	0.500	1	05/07/2020 23:12	WG1472450
Styrene	U		0.118	0.500	1	05/07/2020 23:12	WG1472450
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/07/2020 23:12	WG1472450
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/07/2020 23:12	WG1472450
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/07/2020 23:12	WG1472450
Tetrachloroethene	U		0.300	0.500	1	05/07/2020 23:12	WG1472450
Toluene	0.318	U	0.278	0.500	1	05/13/2020 04:39	WG1474615
1,2,3-Trichlorobenzene	U	JO	0.164	0.500	1	05/07/2020 23:12	WG1472450
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/07/2020 23:12	WG1472450
1,1,1-Trichloroethane	U		0.149	0.500	1	05/07/2020 23:12	WG1472450
1,1,2-Trichloroethane	U		0.158	0.500	1	05/07/2020 23:12	WG1472450
Trichloroethene	0.304	U	0.190	0.500	1	05/07/2020 23:12	WG1472450
Trichlorofluoromethane	U		0.160	2.50	1	05/07/2020 23:12	WG1472450
1,2,3-Trichloropropane	U		0.237	2.50	1	05/07/2020 23:12	WG1472450
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/07/2020 23:12	WG1472450
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/07/2020 23:12	WG1472450
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/07/2020 23:12	WG1472450
Vinyl acetate	U		0.692	5.00	1	05/07/2020 23:12	WG1472450
Vinyl chloride	6.03		0.234	0.500	1	05/07/2020 23:12	WG1472450
Xylenes, Total	U		0.174	1.50	1	05/13/2020 04:39	WG1474615
(S) Toluene-d8	105			80.0-120		05/07/2020 23:12	WG1472450
(S) Toluene-d8	96.1			80.0-120		05/13/2020 04:39	WG1474615
(S) 4-Bromofluorobenzene	92.7			77.0-126		05/07/2020 23:12	WG1472450
(S) 4-Bromofluorobenzene	92.7			77.0-126		05/13/2020 04:39	WG1474615

- 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) 1,2-Dichloroethane-d4	96.3			70.0-130		05/07/2020 23:12	WG1472450
(S) 1,2-Dichloroethane-d4	92.2			70.0-130		05/13/2020 04:39	WG1474615

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	337000		8450	20000	1	05/07/2020 14:48	WG1471423

Sample Narrative:

L1215318-03 WG1471423: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	31000		379	1000	1	05/06/2020 16:44	WG1471206
Nitrate	U		48.0	100	1	05/06/2020 16:44	WG1471206
Sulfate	23000		594	5000	1	05/06/2020 16:44	WG1471206

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)	4770		102	1000	1	05/08/2020 17:28	WG1472815

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	3460		48.9	100	1	05/08/2020 17:24	WG1472548
Manganese	1400		1.32	5.00	1	05/08/2020 17:24	WG1472548

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	2740		0.287	0.678	1	05/11/2020 13:46	WG1473786
Ethane	U		0.296	1.29	1	05/11/2020 13:46	WG1473786
Ethene	U		0.422	1.27	1	05/11/2020 13:46	WG1473786

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		11.3	25.0	1	05/07/2020 23:33	WG1472450
Acrylonitrile	U		0.671	5.00	1	05/07/2020 23:33	WG1472450
Benzene	U		0.0941	0.500	1	05/07/2020 23:33	WG1472450
Bromobenzene	U		0.118	0.500	1	05/07/2020 23:33	WG1472450
Bromodichloromethane	U		0.136	0.500	1	05/07/2020 23:33	WG1472450
Bromochloromethane	U		0.128	0.500	1	05/07/2020 23:33	WG1472450
Bromoform	U		0.129	0.500	1	05/07/2020 23:33	WG1472450
Bromomethane	U		0.605	2.50	1	05/07/2020 23:33	WG1472450
n-Butylbenzene	U		0.157	0.500	1	05/07/2020 23:33	WG1472450
sec-Butylbenzene	U		0.125	0.500	1	05/07/2020 23:33	WG1472450
tert-Butylbenzene	U		0.127	0.500	1	05/07/2020 23:33	WG1472450
Carbon disulfide	U		0.0962	0.500	1	05/07/2020 23:33	WG1472450
Carbon tetrachloride	U		0.128	0.500	1	05/07/2020 23:33	WG1472450
Chlorobenzene	U		0.117	0.500	1	05/07/2020 23:33	WG1472450
Chlorodibromomethane	U		0.140	0.500	1	05/07/2020 23:33	WG1472450
Chloroethane	U		0.192	2.50	1	05/07/2020 23:33	WG1472450
Chloroform	U		0.111	0.500	1	05/07/2020 23:33	WG1472450
Chloromethane	U		0.960	1.25	1	05/07/2020 23:33	WG1472450
2-Chlorotoluene	U		0.106	0.500	1	05/07/2020 23:33	WG1472450
4-Chlorotoluene	U		0.114	0.500	1	05/07/2020 23:33	WG1472450

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	
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/07/2020 23:33	WG1472450
1,2-Dibromoethane	U		0.126	0.500	1	05/07/2020 23:33	WG1472450
Dibromomethane	U		0.122	0.500	1	05/07/2020 23:33	WG1472450
1,2-Dichlorobenzene	U		0.107	0.500	1	05/07/2020 23:33	WG1472450
1,3-Dichlorobenzene	U		0.299	0.500	1	05/07/2020 23:33	WG1472450
1,4-Dichlorobenzene	U		0.120	0.500	1	05/07/2020 23:33	WG1472450
Dichlorodifluoromethane	U		0.374	2.50	1	05/07/2020 23:33	WG1472450
1,1-Dichloroethane	U		0.100	0.500	1	05/07/2020 23:33	WG1472450
1,2-Dichloroethane	U		0.0819	0.500	1	05/07/2020 23:33	WG1472450
1,1-Dichloroethene	U		0.188	0.500	1	05/07/2020 23:33	WG1472450
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/07/2020 23:33	WG1472450
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/07/2020 23:33	WG1472450
1,2-Dichloropropane	U		0.149	0.500	1	05/07/2020 23:33	WG1472450
1,1-Dichloropropene	U		0.142	0.500	1	05/07/2020 23:33	WG1472450
1,3-Dichloropropane	U		0.109	1.00	1	05/07/2020 23:33	WG1472450
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/07/2020 23:33	WG1472450
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/07/2020 23:33	WG1472450
trans-1,4-Dichloro-2-butene	U	JO	0.467	5.00	1	05/07/2020 23:33	WG1472450
2,2-Dichloropropane	U		0.161	0.500	1	05/07/2020 23:33	WG1472450
Di-isopropyl ether	U		0.105	0.500	1	05/07/2020 23:33	WG1472450
Ethylbenzene	U		0.137	0.500	1	05/07/2020 23:33	WG1472450
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/07/2020 23:33	WG1472450
2-Hexanone	U		0.787	5.00	1	05/07/2020 23:33	WG1472450
n-Hexane	U		0.749	5.00	1	05/07/2020 23:33	WG1472450
Iodomethane	U		0.554	5.00	1	05/07/2020 23:33	WG1472450
Isopropylbenzene	U		0.105	0.500	1	05/07/2020 23:33	WG1472450
p-Isopropyltoluene	U		0.120	0.500	1	05/07/2020 23:33	WG1472450
2-Butanone (MEK)	U		1.19	5.00	1	05/07/2020 23:33	WG1472450
Methylene Chloride	U		0.430	2.50	1	05/07/2020 23:33	WG1472450
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/07/2020 23:33	WG1472450
Methyl tert-butyl ether	U		0.101	0.500	1	05/07/2020 23:33	WG1472450
Naphthalene	U	JO	0.174	2.50	1	05/07/2020 23:33	WG1472450
n-Propylbenzene	U		0.0993	0.500	1	05/07/2020 23:33	WG1472450
Styrene	U		0.118	0.500	1	05/07/2020 23:33	WG1472450
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/07/2020 23:33	WG1472450
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/07/2020 23:33	WG1472450
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/07/2020 23:33	WG1472450
Tetrachloroethene	U		0.300	0.500	1	05/07/2020 23:33	WG1472450
Toluene	0.293	J	0.278	0.500	1	05/13/2020 05:00	WG1474615
1,2,3-Trichlorobenzene	U	JO	0.164	0.500	1	05/07/2020 23:33	WG1472450
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/07/2020 23:33	WG1472450
1,1,1-Trichloroethane	U		0.149	0.500	1	05/07/2020 23:33	WG1472450
1,1,2-Trichloroethane	U		0.158	0.500	1	05/07/2020 23:33	WG1472450
Trichloroethene	U		0.190	0.500	1	05/07/2020 23:33	WG1472450
Trichlorofluoromethane	U		0.160	2.50	1	05/07/2020 23:33	WG1472450
1,2,3-Trichloropropane	U		0.237	2.50	1	05/07/2020 23:33	WG1472450
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/07/2020 23:33	WG1472450
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/07/2020 23:33	WG1472450
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/07/2020 23:33	WG1472450
Vinyl acetate	U		0.692	5.00	1	05/07/2020 23:33	WG1472450
Vinyl chloride	U		0.234	0.500	1	05/07/2020 23:33	WG1472450
Xylenes, Total	U		0.174	1.50	1	05/13/2020 05:00	WG1474615
(S) Toluene-d8	109			80.0-120		05/07/2020 23:33	WG1472450
(S) Toluene-d8	97.7			80.0-120		05/13/2020 05:00	WG1474615
(S) 4-Bromofluorobenzene	91.8			77.0-126		05/07/2020 23:33	WG1472450
(S) 4-Bromofluorobenzene	89.5			77.0-126		05/13/2020 05:00	WG1474615

- 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) 1,2-Dichloroethane-d4	98.9			70.0-130		05/07/2020 23:33	WG1472450
(S) 1,2-Dichloroethane-d4	89.1			70.0-130		05/13/2020 05:00	WG1474615

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	258000		8450	20000	1	05/07/2020 14:56	WG1471423

Sample Narrative:

L1215318-04 WG1471423: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	12300		379	1000	1	05/06/2020 16:55	WG1471206
Nitrate	5070		48.0	100	1	05/06/2020 16:55	WG1471206
Sulfate	73300		594	5000	1	05/06/2020 16:55	WG1471206

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)	2750	<u>B</u>	102	1000	1	05/08/2020 19:45	WG1472815

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	700		48.9	100	1	05/08/2020 17:27	WG1472548
Manganese	37.5		1.32	5.00	1	05/08/2020 17:27	WG1472548

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	U		31.6	100	1	05/13/2020 06:02	WG1474063
(S) a,a,a-Trifluorotoluene(FID)	100			78.0-120		05/13/2020 06:02	WG1474063

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	05/11/2020 13:53	WG1473786
Ethane	U		0.296	1.29	1	05/11/2020 13:53	WG1473786
Ethene	U		0.422	1.27	1	05/11/2020 13:53	WG1473786

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		11.3	25.0	1	05/07/2020 23:53	WG1472450
Acrylonitrile	U		0.671	5.00	1	05/07/2020 23:53	WG1472450
Benzene	U		0.0941	0.500	1	05/07/2020 23:53	WG1472450
Bromobenzene	U		0.118	0.500	1	05/07/2020 23:53	WG1472450
Bromodichloromethane	U		0.136	0.500	1	05/07/2020 23:53	WG1472450
Bromochloromethane	U		0.128	0.500	1	05/07/2020 23:53	WG1472450
Bromoform	U		0.129	0.500	1	05/07/2020 23:53	WG1472450
Bromomethane	U		0.605	2.50	1	05/07/2020 23:53	WG1472450
n-Butylbenzene	U		0.157	0.500	1	05/07/2020 23:53	WG1472450
sec-Butylbenzene	U		0.125	0.500	1	05/07/2020 23:53	WG1472450
tert-Butylbenzene	U		0.127	0.500	1	05/07/2020 23:53	WG1472450
Carbon disulfide	U		0.0962	0.500	1	05/07/2020 23:53	WG1472450
Carbon tetrachloride	U		0.128	0.500	1	05/07/2020 23:53	WG1472450

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
Chlorobenzene	U		0.117	0.500	1	05/07/2020 23:53	WG1472450
Chlorodibromomethane	U		0.140	0.500	1	05/07/2020 23:53	WG1472450
Chloroethane	U		0.192	2.50	1	05/07/2020 23:53	WG1472450
Chloroform	U		0.111	0.500	1	05/07/2020 23:53	WG1472450
Chloromethane	U		0.960	1.25	1	05/07/2020 23:53	WG1472450
2-Chlorotoluene	U		0.106	0.500	1	05/07/2020 23:53	WG1472450
4-Chlorotoluene	U		0.114	0.500	1	05/07/2020 23:53	WG1472450
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/07/2020 23:53	WG1472450
1,2-Dibromoethane	U		0.126	0.500	1	05/07/2020 23:53	WG1472450
Dibromomethane	U		0.122	0.500	1	05/07/2020 23:53	WG1472450
1,2-Dichlorobenzene	U		0.107	0.500	1	05/07/2020 23:53	WG1472450
1,3-Dichlorobenzene	U		0.299	0.500	1	05/07/2020 23:53	WG1472450
1,4-Dichlorobenzene	U		0.120	0.500	1	05/07/2020 23:53	WG1472450
Dichlorodifluoromethane	U		0.374	2.50	1	05/07/2020 23:53	WG1472450
1,1-Dichloroethane	U		0.100	0.500	1	05/07/2020 23:53	WG1472450
1,2-Dichloroethane	U		0.0819	0.500	1	05/07/2020 23:53	WG1472450
1,1-Dichloroethene	U		0.188	0.500	1	05/07/2020 23:53	WG1472450
cis-1,2-Dichloroethene	16.4		0.126	0.500	1	05/07/2020 23:53	WG1472450
trans-1,2-Dichloroethene	0.158	<u>J</u>	0.149	0.500	1	05/07/2020 23:53	WG1472450
1,2-Dichloropropane	U		0.149	0.500	1	05/07/2020 23:53	WG1472450
1,1-Dichloropropene	U		0.142	0.500	1	05/07/2020 23:53	WG1472450
1,3-Dichloropropane	U		0.109	1.00	1	05/07/2020 23:53	WG1472450
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/07/2020 23:53	WG1472450
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/07/2020 23:53	WG1472450
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.467	5.00	1	05/07/2020 23:53	WG1472450
2,2-Dichloropropane	U		0.161	0.500	1	05/07/2020 23:53	WG1472450
Di-isopropyl ether	U		0.105	0.500	1	05/07/2020 23:53	WG1472450
Ethylbenzene	U		0.137	0.500	1	05/07/2020 23:53	WG1472450
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/07/2020 23:53	WG1472450
2-Hexanone	U		0.787	5.00	1	05/07/2020 23:53	WG1472450
n-Hexane	U		0.749	5.00	1	05/07/2020 23:53	WG1472450
Iodomethane	U		0.554	5.00	1	05/07/2020 23:53	WG1472450
Isopropylbenzene	U		0.105	0.500	1	05/07/2020 23:53	WG1472450
p-Isopropyltoluene	U		0.120	0.500	1	05/07/2020 23:53	WG1472450
2-Butanone (MEK)	U		1.19	5.00	1	05/07/2020 23:53	WG1472450
Methylene Chloride	U		0.430	2.50	1	05/07/2020 23:53	WG1472450
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/07/2020 23:53	WG1472450
Methyl tert-butyl ether	U		0.101	0.500	1	05/07/2020 23:53	WG1472450
Naphthalene	U	<u>JO</u>	0.174	2.50	1	05/07/2020 23:53	WG1472450
n-Propylbenzene	U		0.0993	0.500	1	05/07/2020 23:53	WG1472450
Styrene	U		0.118	0.500	1	05/07/2020 23:53	WG1472450
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/07/2020 23:53	WG1472450
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/07/2020 23:53	WG1472450
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/07/2020 23:53	WG1472450
Tetrachloroethene	140		0.300	0.500	1	05/07/2020 23:53	WG1472450
Toluene	U		0.278	0.500	1	05/07/2020 23:53	WG1472450
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	05/07/2020 23:53	WG1472450
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/07/2020 23:53	WG1472450
1,1,1-Trichloroethane	U		0.149	0.500	1	05/07/2020 23:53	WG1472450
1,1,2-Trichloroethane	U		0.158	0.500	1	05/07/2020 23:53	WG1472450
Trichloroethene	27.3		0.190	0.500	1	05/07/2020 23:53	WG1472450
Trichlorofluoromethane	U		0.160	2.50	1	05/07/2020 23:53	WG1472450
1,2,3-Trichloropropane	U		0.237	2.50	1	05/07/2020 23:53	WG1472450
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/07/2020 23:53	WG1472450
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/07/2020 23:53	WG1472450
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/07/2020 23:53	WG1472450

- 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
Vinyl acetate	U		0.692	5.00	1	05/07/2020 23:53	WG1472450
Vinyl chloride	U		0.234	0.500	1	05/07/2020 23:53	WG1472450
Xylenes, Total	U		0.174	1.50	1	05/07/2020 23:53	WG1472450
<i>(S) Toluene-d8</i>	107			80.0-120		05/07/2020 23:53	WG1472450
<i>(S) 4-Bromofluorobenzene</i>	93.9			77.0-126		05/07/2020 23:53	WG1472450
<i>(S) 1,2-Dichloroethane-d4</i>	95.6			70.0-130		05/07/2020 23:53	WG1472450

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	355000		8450	20000	1	05/07/2020 15:05	WG1471423

Sample Narrative:

L1215318-05 WG1471423: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	28300		379	1000	1	05/06/2020 17:06	WG1471206
Nitrate	U		48.0	100	1	05/06/2020 17:06	WG1471206
Sulfate	209000		2970	25000	5	05/06/2020 19:16	WG1471206

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)	6840		102	1000	1	05/08/2020 20:53	WG1472815

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	11500		48.9	100	1	05/08/2020 17:41	WG1472548
Manganese	1460		1.32	5.00	1	05/08/2020 17:41	WG1472548

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	1760		0.287	0.678	1	05/11/2020 14:19	WG1473786
Ethane	U		0.296	1.29	1	05/11/2020 14:19	WG1473786
Ethene	U		0.422	1.27	1	05/11/2020 14:19	WG1473786

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		11.3	25.0	1	05/08/2020 00:14	WG1472450
Acrylonitrile	U		0.671	5.00	1	05/08/2020 00:14	WG1472450
Benzene	U		0.0941	0.500	1	05/08/2020 00:14	WG1472450
Bromobenzene	U		0.118	0.500	1	05/08/2020 00:14	WG1472450
Bromodichloromethane	U		0.136	0.500	1	05/08/2020 00:14	WG1472450
Bromochloromethane	U		0.128	0.500	1	05/08/2020 00:14	WG1472450
Bromoform	U		0.129	0.500	1	05/08/2020 00:14	WG1472450
Bromomethane	U		0.605	2.50	1	05/08/2020 00:14	WG1472450
n-Butylbenzene	U		0.157	0.500	1	05/08/2020 00:14	WG1472450
sec-Butylbenzene	U		0.125	0.500	1	05/08/2020 00:14	WG1472450
tert-Butylbenzene	U		0.127	0.500	1	05/08/2020 00:14	WG1472450
Carbon disulfide	U		0.0962	0.500	1	05/08/2020 00:14	WG1472450
Carbon tetrachloride	U		0.128	0.500	1	05/08/2020 00:14	WG1472450
Chlorobenzene	U		0.117	0.500	1	05/08/2020 00:14	WG1472450
Chlorodibromomethane	U		0.140	0.500	1	05/08/2020 00:14	WG1472450
Chloroethane	U		0.192	2.50	1	05/08/2020 00:14	WG1472450
Chloroform	U		0.111	0.500	1	05/08/2020 00:14	WG1472450
Chloromethane	U		0.960	1.25	1	05/08/2020 00:14	WG1472450
2-Chlorotoluene	U		0.106	0.500	1	05/08/2020 00:14	WG1472450
4-Chlorotoluene	U		0.114	0.500	1	05/08/2020 00:14	WG1472450

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	
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/08/2020 00:14	WG1472450
1,2-Dibromoethane	U		0.126	0.500	1	05/08/2020 00:14	WG1472450
Dibromomethane	U		0.122	0.500	1	05/08/2020 00:14	WG1472450
1,2-Dichlorobenzene	U		0.107	0.500	1	05/08/2020 00:14	WG1472450
1,3-Dichlorobenzene	U		0.299	0.500	1	05/08/2020 00:14	WG1472450
1,4-Dichlorobenzene	U		0.120	0.500	1	05/08/2020 00:14	WG1472450
Dichlorodifluoromethane	U		0.374	2.50	1	05/08/2020 00:14	WG1472450
1,1-Dichloroethane	U		0.100	0.500	1	05/08/2020 00:14	WG1472450
1,2-Dichloroethane	U		0.0819	0.500	1	05/08/2020 00:14	WG1472450
1,1-Dichloroethene	U		0.188	0.500	1	05/08/2020 00:14	WG1472450
cis-1,2-Dichloroethene	0.654		0.126	0.500	1	05/08/2020 00:14	WG1472450
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/08/2020 00:14	WG1472450
1,2-Dichloropropane	U		0.149	0.500	1	05/08/2020 00:14	WG1472450
1,1-Dichloropropene	U		0.142	0.500	1	05/08/2020 00:14	WG1472450
1,3-Dichloropropane	U		0.109	1.00	1	05/08/2020 00:14	WG1472450
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/08/2020 00:14	WG1472450
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/08/2020 00:14	WG1472450
trans-1,4-Dichloro-2-butene	U	JO	0.467	5.00	1	05/08/2020 00:14	WG1472450
2,2-Dichloropropane	U		0.161	0.500	1	05/08/2020 00:14	WG1472450
Di-isopropyl ether	U		0.105	0.500	1	05/08/2020 00:14	WG1472450
Ethylbenzene	U		0.137	0.500	1	05/08/2020 00:14	WG1472450
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/08/2020 00:14	WG1472450
2-Hexanone	U		0.787	5.00	1	05/08/2020 00:14	WG1472450
n-Hexane	U		0.749	5.00	1	05/08/2020 00:14	WG1472450
Iodomethane	U		0.554	5.00	1	05/08/2020 00:14	WG1472450
Isopropylbenzene	U		0.105	0.500	1	05/08/2020 00:14	WG1472450
p-Isopropyltoluene	U		0.120	0.500	1	05/08/2020 00:14	WG1472450
2-Butanone (MEK)	U		1.19	5.00	1	05/08/2020 00:14	WG1472450
Methylene Chloride	U		0.430	2.50	1	05/08/2020 00:14	WG1472450
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/08/2020 00:14	WG1472450
Methyl tert-butyl ether	U		0.101	0.500	1	05/08/2020 00:14	WG1472450
Naphthalene	U	JO	0.174	2.50	1	05/08/2020 00:14	WG1472450
n-Propylbenzene	U		0.0993	0.500	1	05/08/2020 00:14	WG1472450
Styrene	U		0.118	0.500	1	05/08/2020 00:14	WG1472450
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/08/2020 00:14	WG1472450
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/08/2020 00:14	WG1472450
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/08/2020 00:14	WG1472450
Tetrachloroethene	U		0.300	0.500	1	05/08/2020 00:14	WG1472450
Toluene	U		0.278	0.500	1	05/08/2020 00:14	WG1472450
1,2,3-Trichlorobenzene	U	JO	0.164	0.500	1	05/08/2020 00:14	WG1472450
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/08/2020 00:14	WG1472450
1,1,1-Trichloroethane	U		0.149	0.500	1	05/08/2020 00:14	WG1472450
1,1,2-Trichloroethane	U		0.158	0.500	1	05/08/2020 00:14	WG1472450
Trichloroethene	U		0.190	0.500	1	05/08/2020 00:14	WG1472450
Trichlorofluoromethane	U		0.160	2.50	1	05/08/2020 00:14	WG1472450
1,2,3-Trichloropropane	U		0.237	2.50	1	05/08/2020 00:14	WG1472450
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/08/2020 00:14	WG1472450
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/08/2020 00:14	WG1472450
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/08/2020 00:14	WG1472450
Vinyl acetate	U		0.692	5.00	1	05/08/2020 00:14	WG1472450
Vinyl chloride	8.86		0.234	0.500	1	05/08/2020 00:14	WG1472450
Xylenes, Total	U		0.174	1.50	1	05/08/2020 00:14	WG1472450
(S) Toluene-d8	106			80.0-120		05/08/2020 00:14	WG1472450
(S) 4-Bromofluorobenzene	100			77.0-126		05/08/2020 00:14	WG1472450
(S) 1,2-Dichloroethane-d4	103			70.0-130		05/08/2020 00:14	WG1472450

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



Method Blank (MB)

(MB) R3525703-1 05/07/20 11:23

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1215362-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1215362-01 05/07/20 11:52 • (DUP) R3525703-2 05/07/20 12:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	84500	84600	1	0.115		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5 headspace

L1215318-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1215318-01 05/07/20 14:20 • (DUP) R3525703-4 05/07/20 14:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	601000	593000	1	1.31		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3525703-3 05/07/20 13:14

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	102000	102	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3525339-1 05/06/20 09:43

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		379	1000
Nitrate	U		48.0	100
Sulfate	U		594	5000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1215207-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1215207-01 05/06/20 13:50 • (DUP) R3525339-3 05/06/20 14:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Nitrate	2070	1960	1	5.31		15

L1215207-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1215207-01 05/06/20 14:12 • (DUP) R3525339-4 05/06/20 14:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	359000	359000	5	0.111		15
Sulfate	128000	127000	5	0.660		15

L1215374-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1215374-05 05/06/20 18:11 • (DUP) R3525339-7 05/06/20 18:22

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	2000	2030	1	1.73		15
Nitrate	240	249	1	4.01		15
Sulfate	22900	23200	1	1.61		15

Laboratory Control Sample (LCS)

(LCS) R3525339-2 05/06/20 09:54

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40000	37000	92.5	80.0-120	
Nitrate	8000	7370	92.1	80.0-120	
Sulfate	40000	36000	90.0	80.0-120	



L1215207-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1215207-02 05/06/20 14:34 • (MS) R3525339-5 05/06/20 14:45 • (MSD) R3525339-6 05/06/20 14:55

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 %
Chloride	50000	320000	351000	354000	61.4	68.0	1	80.0-120	<u>EV</u>	<u>EV</u>	0.929	15
Nitrate	5000	14000	18700	18800	94.3	95.8	1	80.0-120	<u>E</u>	<u>E</u>	0.401	15
Sulfate	50000	199000	241000	242000	84.0	86.4	1	80.0-120	<u>E</u>	<u>E</u>	0.500	15

L1215374-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1215374-06 05/06/20 18:33 • (MS) R3525339-8 05/06/20 18:43

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	2840	51800	97.9	1	80.0-120	
Nitrate	5000	151	4990	96.8	1	80.0-120	
Sulfate	50000	25500	74700	98.5	1	80.0-120	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3526150-1 05/08/20 13:53

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	361	↓	102	1000

¹ Cp

² Tc

³ Ss

⁴ Cn

L1215318-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1215318-03 05/08/20 17:28 • (DUP) R3526150-3 05/08/20 17:48

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
TOC	4770	4880	1	2.18		20

⁵ Sr

⁶ Qc

Laboratory Control Sample (LCS)

(LCS) R3526150-2 05/08/20 14:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC	75000	79100	105	85.0-115	

⁷ Gl

⁸ Al

L1215779-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1215779-01 05/09/20 01:32 • (MS) R3526150-7 05/09/20 01:56 • (MSD) R3526150-8 05/09/20 02:21

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 %
TOC	50000	ND	60200	58400	119	116	1	80.0-120			3.02	20

⁹ Sc



Method Blank (MB)

(MB) R3526078-1 05/08/20 16:12

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		48.9	100
Manganese	U		1.32	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) R3526078-2 05/08/20 16:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron	5000	4810	96.2	80.0-120	
Manganese	50.0	48.0	96.0	80.0-120	

L1216335-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1216335-02 05/08/20 16:19 • (MS) R3526078-4 05/08/20 16:25 • (MSD) R3526078-5 05/08/20 16:28

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	ND	4900	4960	98.0	99.3	1	75.0-125			1.23	20
Manganese	50.0	ND	49.2	49.1	98.4	98.2	1	75.0-125			0.274	20



Method Blank (MB)

(MB) R3527353-2 05/13/20 00:07

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)	100			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3527353-1 05/13/20 23:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5370	97.6	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			103	78.0-120	



Method Blank (MB)

(MB) R3526659-2 05/11/20 13:13

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1215207-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1215207-01 05/11/20 13:27 • (DUP) R3526659-3 05/11/20 14:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	201	186	1	7.75		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

L1215318-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1215318-05 05/11/20 14:19 • (DUP) R3526659-4 05/11/20 14:50

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	1760	1730	1	1.72		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

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

(LCS) R3526659-1 05/11/20 12:57 • (LCSD) R3526659-7 05/11/20 15:00

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	63.9	61.8	94.2	91.2	85.0-115			3.34	20
Ethane	129	125	119	96.9	92.2	85.0-115			4.92	20
Ethene	127	119	115	93.7	90.6	85.0-115			3.42	20



L1215620-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1215620-02 05/11/20 14:25 • (MS) R3526659-5 05/11/20 14:53 • (MSD) R3526659-6 05/11/20 14:57

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	1870	1820	1840	0.000	0.000	1	85.0-115	<u>V</u>	<u>V</u>	1.09	20
Ethane	129	U	104	109	80.6	84.5	1	85.0-115	<u>J6</u>	<u>J6</u>	4.69	20
Ethene	127	U	99.7	104	78.5	81.9	1	85.0-115	<u>J6</u>	<u>J6</u>	4.22	20

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



Method Blank (MB)

(MB) R3527061-2 05/12/20 12:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Methane	U		0.287	0.678

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1215869-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1215869-01 05/12/20 13:13 • (DUP) R3527061-3 05/12/20 13:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Methane	21.8	21.5	1	1.39		20

L1216400-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1216400-02 05/12/20 14:07 • (DUP) R3527061-4 05/12/20 14:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Methane	ND	0.000	1	0.000		20

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

(LCS) R3527061-1 05/12/20 09:24 • (LCSD) R3527061-5 05/12/20 14:48

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Methane	67.8	59.4	58.7	87.6	86.6	85.0-115			1.19	20



Method Blank (MB)

(MB) R3527021-2 05/07/20 19:17

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromochloromethane	U		0.128	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
trans-1,4-Dichloro-2-butene	U		0.467	5.00
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3527021-2 05/07/20 19:17

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	0.500
Hexachloro-1,3-butadiene	U		0.337	1.00
2-Hexanone	U		0.787	5.00
n-Hexane	U		0.749	5.00
Iodomethane	U		0.554	5.00
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
1,2,3-Trichlorobenzene	0.183	U	0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	0.500
1,2,4-Trimethylbenzene	U		0.322	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl acetate	U		0.692	5.00
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	110			80.0-120
(S) 4-Bromofluorobenzene	95.6			77.0-126
(S) 1,2-Dichloroethane-d4	101			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) R3527021-1 05/07/20 18:36

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	25.0	25.1	100	19.0-160	
Acrylonitrile	25.0	23.8	95.2	55.0-149	
Benzene	5.00	4.78	95.6	70.0-123	
Bromobenzene	5.00	4.35	87.0	73.0-121	
Bromodichloromethane	5.00	4.66	93.2	75.0-120	
Bromochloromethane	5.00	5.40	108	76.0-122	
Bromoform	5.00	4.65	93.0	68.0-132	
Bromomethane	5.00	5.81	116	10.0-160	
n-Butylbenzene	5.00	4.43	88.6	73.0-125	
sec-Butylbenzene	5.00	4.44	88.8	75.0-125	
tert-Butylbenzene	5.00	4.39	87.8	76.0-124	
Carbon disulfide	5.00	5.18	104	61.0-128	
Carbon tetrachloride	5.00	5.90	118	68.0-126	
Chlorobenzene	5.00	4.95	99.0	80.0-121	
Chlorodibromomethane	5.00	5.01	100	77.0-125	
Chloroethane	5.00	6.43	129	47.0-150	
Chloroform	5.00	5.03	101	73.0-120	
Chloromethane	5.00	6.21	124	41.0-142	
2-Chlorotoluene	5.00	4.54	90.8	76.0-123	
4-Chlorotoluene	5.00	4.61	92.2	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.01	80.2	58.0-134	
1,2-Dibromoethane	5.00	4.78	95.6	80.0-122	
Dibromomethane	5.00	4.93	98.6	80.0-120	
1,2-Dichlorobenzene	5.00	4.53	90.6	79.0-121	
1,3-Dichlorobenzene	5.00	4.52	90.4	79.0-120	
1,4-Dichlorobenzene	5.00	4.99	99.8	79.0-120	
trans-1,4-Dichloro-2-butene	5.00	2.97	59.4	33.0-144	
Dichlorodifluoromethane	5.00	6.19	124	51.0-149	
1,1-Dichloroethane	5.00	5.11	102	70.0-126	
1,2-Dichloroethane	5.00	5.14	103	70.0-128	
1,1-Dichloroethene	5.00	4.84	96.8	71.0-124	
cis-1,2-Dichloroethene	5.00	5.10	102	73.0-120	
trans-1,2-Dichloroethene	5.00	5.29	106	73.0-120	
1,2-Dichloropropane	5.00	5.03	101	77.0-125	
1,1-Dichloropropene	5.00	4.72	94.4	74.0-126	
1,3-Dichloropropane	5.00	4.36	87.2	80.0-120	
cis-1,3-Dichloropropene	5.00	4.39	87.8	80.0-123	
trans-1,3-Dichloropropene	5.00	4.81	96.2	78.0-124	
2,2-Dichloropropane	5.00	5.53	111	58.0-130	
Di-isopropyl ether	5.00	5.38	108	58.0-138	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3527021-1 05/07/20 18:36

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	5.00	5.11	102	79.0-123	
Hexachloro-1,3-butadiene	5.00	4.15	83.0	54.0-138	
2-Hexanone	25.0	21.2	84.8	67.0-149	
n-Hexane	5.00	5.97	119	57.0-133	
Iodomethane	25.0	26.9	108	33.0-147	
Isopropylbenzene	5.00	4.72	94.4	76.0-127	
p-Isopropyltoluene	5.00	4.48	89.6	76.0-125	
2-Butanone (MEK)	25.0	21.6	86.4	44.0-160	
Methylene Chloride	5.00	5.31	106	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	22.8	91.2	68.0-142	
Methyl tert-butyl ether	5.00	4.85	97.0	68.0-125	
Naphthalene	5.00	3.30	66.0	54.0-135	
n-Propylbenzene	5.00	4.43	88.6	77.0-124	
Styrene	5.00	4.64	92.8	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	5.10	102	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	4.02	80.4	65.0-130	
Tetrachloroethene	5.00	5.41	108	72.0-132	
Toluene	5.00	4.48	89.6	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	5.59	112	69.0-132	
1,2,3-Trichlorobenzene	5.00	3.74	74.8	50.0-138	
1,2,4-Trichlorobenzene	5.00	4.15	83.0	57.0-137	
1,1,1-Trichloroethane	5.00	5.32	106	73.0-124	
1,1,2-Trichloroethane	5.00	4.96	99.2	80.0-120	
Trichloroethene	5.00	5.35	107	78.0-124	
Trichlorofluoromethane	5.00	5.90	118	59.0-147	
1,2,3-Trichloropropane	5.00	4.66	93.2	73.0-130	
1,2,3-Trimethylbenzene	5.00	4.43	88.6	77.0-120	
1,2,4-Trimethylbenzene	5.00	4.50	90.0	76.0-121	
1,3,5-Trimethylbenzene	5.00	4.64	92.8	76.0-122	
Vinyl acetate	25.0	26.2	105	11.0-160	
Vinyl chloride	5.00	6.27	125	67.0-131	
Xylenes, Total	15.0	14.5	96.7	79.0-123	
(S) Toluene-d8			104	80.0-120	
(S) 4-Bromofluorobenzene			93.4	77.0-126	
(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) R3527335-2 05/13/20 01:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Toluene	U		0.278	0.500
Xylenes, Total	U		0.174	1.50
<i>(S) Toluene-d8</i>	95.2			80.0-120
<i>(S) 4-Bromofluorobenzene</i>	84.7			77.0-126
<i>(S) 1,2-Dichloroethane-d4</i>	91.2			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3527335-1 05/13/20 00:08

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Toluene	5.00	5.66	113	79.0-120	
Xylenes, Total	15.0	16.9	113	79.0-123	
<i>(S) Toluene-d8</i>			96.9	80.0-120	
<i>(S) 4-Bromofluorobenzene</i>			86.7	77.0-126	
<i>(S) 1,2-Dichloroethane-d4</i>			87.7	70.0-130	

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3527382-2 05/13/20 08:35

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromochloromethane	U		0.128	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
trans-1,4-Dichloro-2-butene	U		0.467	5.00
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3527382-2 05/13/20 08:35

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	0.500
Hexachloro-1,3-butadiene	U		0.337	1.00
2-Hexanone	U		0.787	5.00
n-Hexane	U		0.749	5.00
Iodomethane	U		0.554	5.00
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	0.500
1,2,3-Trimethylbenzene	U		0.104	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl acetate	U		0.692	5.00
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	108			80.0-120
(S) 4-Bromofluorobenzene	102			77.0-126
(S) 1,2-Dichloroethane-d4	118			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) R3527382-1 05/13/20 07:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	25.0	33.6	134	19.0-160	
Acrylonitrile	25.0	20.8	83.2	55.0-149	
Benzene	5.00	4.62	92.4	70.0-123	
Bromobenzene	5.00	4.37	87.4	73.0-121	
Bromodichloromethane	5.00	5.18	104	75.0-120	
Bromochloromethane	5.00	5.45	109	76.0-122	
Bromoform	5.00	4.90	98.0	68.0-132	
Bromomethane	5.00	5.60	112	10.0-160	
n-Butylbenzene	5.00	4.41	88.2	73.0-125	
sec-Butylbenzene	5.00	4.80	96.0	75.0-125	
tert-Butylbenzene	5.00	4.73	94.6	76.0-124	
Carbon disulfide	5.00	5.53	111	61.0-128	
Carbon tetrachloride	5.00	5.28	106	68.0-126	
Chlorobenzene	5.00	4.88	97.6	80.0-121	
Chlorodibromomethane	5.00	5.03	101	77.0-125	
Chloroethane	5.00	6.00	120	47.0-150	
Chloroform	5.00	4.90	98.0	73.0-120	
Chloromethane	5.00	5.10	102	41.0-142	
2-Chlorotoluene	5.00	4.57	91.4	76.0-123	
4-Chlorotoluene	5.00	4.69	93.8	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.51	90.2	58.0-134	
1,2-Dibromoethane	5.00	5.00	100	80.0-122	
Dibromomethane	5.00	4.84	96.8	80.0-120	
1,2-Dichlorobenzene	5.00	4.62	92.4	79.0-121	
1,3-Dichlorobenzene	5.00	4.70	94.0	79.0-120	
1,4-Dichlorobenzene	5.00	4.56	91.2	79.0-120	
Dichlorodifluoromethane	5.00	5.33	107	51.0-149	
1,1-Dichloroethane	5.00	4.95	99.0	70.0-126	
1,2-Dichloroethane	5.00	4.80	96.0	70.0-128	
1,1-Dichloroethene	5.00	5.59	112	71.0-124	
cis-1,2-Dichloroethene	5.00	5.09	102	73.0-120	
trans-1,2-Dichloroethene	5.00	5.40	108	73.0-120	
1,2-Dichloropropane	5.00	4.62	92.4	77.0-125	
1,1-Dichloropropene	5.00	5.22	104	74.0-126	
1,3-Dichloropropane	5.00	5.03	101	80.0-120	
cis-1,3-Dichloropropene	5.00	4.87	97.4	80.0-123	
trans-1,3-Dichloropropene	5.00	5.08	102	78.0-124	
trans-1,4-Dichloro-2-butene	5.00	4.75	95.0	33.0-144	
2,2-Dichloropropane	5.00	4.94	98.8	58.0-130	
Di-isopropyl ether	5.00	4.87	97.4	58.0-138	

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



Laboratory Control Sample (LCS)

(LCS) R3527382-1 05/13/20 07:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	5.00	4.85	97.0	79.0-123	
Hexachloro-1,3-butadiene	5.00	4.26	85.2	54.0-138	
2-Hexanone	25.0	28.4	114	67.0-149	
n-Hexane	5.00	5.69	114	57.0-133	
Iodomethane	25.0	27.9	112	33.0-147	
Isopropylbenzene	5.00	5.00	100	76.0-127	
p-Isopropyltoluene	5.00	4.78	95.6	76.0-125	
2-Butanone (MEK)	25.0	31.5	126	44.0-160	
Methylene Chloride	5.00	5.07	101	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	26.5	106	68.0-142	
Methyl tert-butyl ether	5.00	4.68	93.6	68.0-125	
Naphthalene	5.00	3.85	77.0	54.0-135	
n-Propylbenzene	5.00	4.41	88.2	77.0-124	
Styrene	5.00	4.84	96.8	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	5.12	102	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	4.20	84.0	65.0-130	
1,1,2-Trichlorotrifluoroethane	5.00	5.63	113	69.0-132	
Tetrachloroethene	5.00	5.29	106	72.0-132	
Toluene	5.00	4.59	91.8	79.0-120	
1,2,3-Trichlorobenzene	5.00	4.01	80.2	50.0-138	
1,2,4-Trichlorobenzene	5.00	3.99	79.8	57.0-137	
1,1,1-Trichloroethane	5.00	5.58	112	73.0-124	
1,1,2-Trichloroethane	5.00	5.12	102	80.0-120	
Trichloroethene	5.00	5.22	104	78.0-124	
Trichlorofluoromethane	5.00	6.03	121	59.0-147	
1,2,3-Trichloropropane	5.00	5.05	101	73.0-130	
1,2,4-Trimethylbenzene	5.00	4.66	93.2	76.0-121	
1,2,3-Trimethylbenzene	5.00	4.51	90.2	77.0-120	
1,3,5-Trimethylbenzene	5.00	4.59	91.8	76.0-122	
Vinyl acetate	25.0	24.6	98.4	11.0-160	
Vinyl chloride	5.00	5.57	111	67.0-131	
Xylenes, Total	15.0	14.5	96.7	79.0-123	
(S) Toluene-d8			106	80.0-120	
(S) 4-Bromofluorobenzene			104	77.0-126	
(S) 1,2-Dichloroethane-d4			116	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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.

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

Qualifier	Description
B	The same analyte is found in the associated blank.
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.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
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.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
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}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

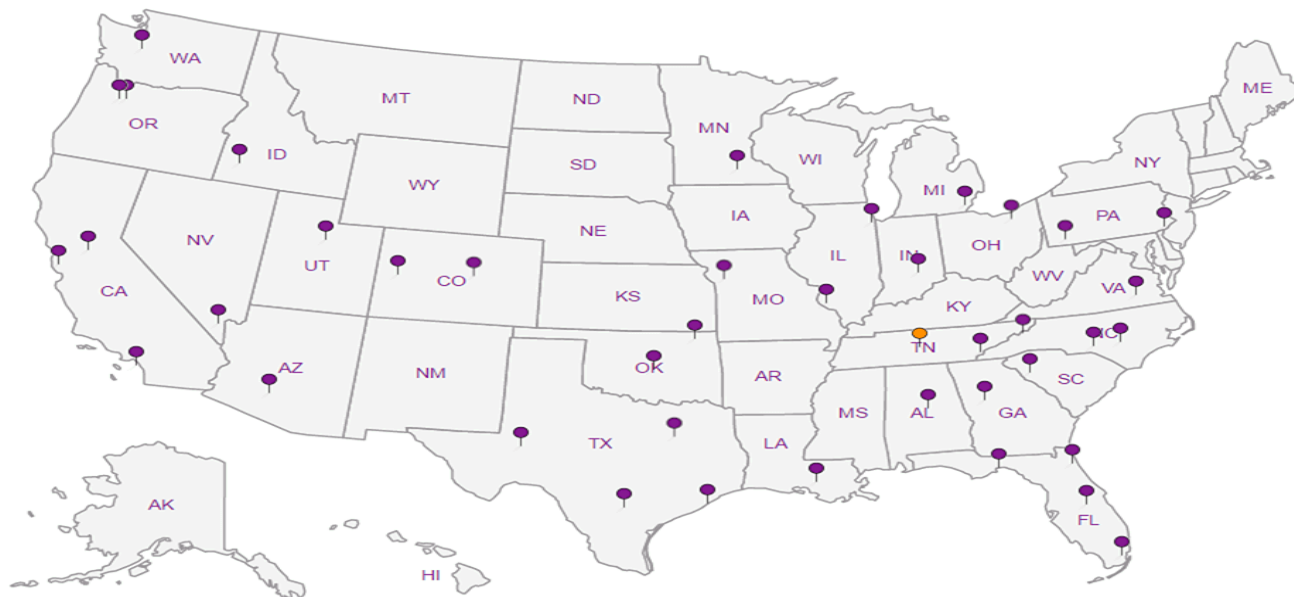
Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres
Chk

Analysis / Container / Preservative



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



SDG # L215318
D213

Acctnum: **PESENVSWA**

Template: **T166998**

Prelogin: **P770399**

PM: **110 - Brian Ford**

PB:

Shipped Via:

Remarks Sample # (lab only)

Report to:
Brian O'Neal/Bill Haldeman

Email To:
boneal@pesenv.com;bhaldeman@pesenv.com;

Project Description:
American Linen

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

Please Circle:
PT MT CT ET

Phone: **206-529-3980**

Client Project #
1413.001.0250/E

Lab Project #
PESENVSWA-ALP

Collected by (print):
HRC/BLH

Site/Facility ID #
American Linen

P.O. #

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

Quote #

Date Results Needed

No.
of
Ctrs

Immediately
Packed on Ice N ___ Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Ctrs	*NO3,Cl,SO4 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlHDPE-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs 8260D LL 40mlAmb-HCl
MW-169-050520	Grab	GW	18	5/5/20	925	12	X	X	X	X	X	X	X
MW-336-050520		GW	90		1015	9	X	X	X	X	X	X	X
MW123-050520		GW	75		1220	12	X	X	X	X	X	X	X
MW-155-050520		GW	27.5		1350	12	X	X	X	X	X	X	X
MW115-050520		GW	40		1425	9	X	X	X	X	X	X	X
		GW											
		GW											
		GW											
		GW											
		GW											

-01
-02
-03
-04
-05

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

Remarks: *Nitrate has a 48 hour holding time.

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

Samples returned via:
___ UPS ___ FedEx ___ Courier

Tracking #

Relinquished by: (Signature)
[Signature]

Date: **5/5/20**
Time: **1600**

Received by: (Signature)

Trip Blank Received: Yes (No)
HCL/MeOH
TBR

Relinquished by: (Signature)

Date: _____
Time: _____

Received by: (Signature)

Temp: **8.3** °C
Bottles Received: **54**
.97.2=1.1

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: _____
Time: _____

Received for lab by: (Signature)
[Signature]

Date: **5-6**
Time: **0845**

Hold:

Condition:
NCF / OK

Brian Ford

From: Shannon E. McKernan <SMcKernan@pesenv.com>
Sent: Wednesday, May 6, 2020 8:45 PM
To: Brian Ford; Kim Vik; Bill Haldeman; Brian O'Neal; Karsten Springstead
Subject: RE: Pace Analytical National Login for 1413.001.02.501E American Linen L1215318

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Brian-

Please hold NWTPH Gx analysis for MW123-050520 (L1215318-03).

Thanks-
Shannon

-----Original Message-----

From: Brian Ford <bford@pacenational.com>
Sent: May 6, 2020 5:17 PM
To: Kim Vik <KVik@pesenv.com>; Bill Haldeman <bhaldeman@pesenv.com>; Brian O'Neal <boneal@pesenv.com>; Shannon E. McKernan <SMcKernan@pesenv.com>; Karsten Springstead <KSpringstead@pesenv.com>
Subject: Pace Analytical National Login for 1413.001.02.501E American Linen L1215318

"Privileged and Confidential"

Thank you for choosing Pace National! Please find enclosed PDF files containing your laboratory login confirmation and chain of custody.

Pace National is leading the laboratory industry with our On-line Data Management tools. Please contact your Project Manager to learn how to create historical Excel tables or access data in real time using powerful and intuitive software that is only available at <https://www.pacenational.com>.

Visit Pace National's secure data management web site - myData - for all your reporting and data management needs at https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fwww.pacenational.com%2flogin&c=E,1,kbsQFkBUSt_6dM1vnUBOtfpi9yhnZOe6KlksLqlS9sWr1mohZ3cuy_p3WbkZ-OsKkqX-UdmH6R7MUiwXaZ6YSfv4aCXNQgVRv_KCBvprEODpY9ZBBQ,,&typo=1

Pace National ... "Your Lab of Choice"

Brian Ford
Technical Service Representative
615-773-9772

Pace Analytical National
12065 Lebanon Rd.

Mt. Juliet, TN 37122

PES Environmental, Inc.- WA

Sample Delivery Group: L1215745
Samples Received: 05/06/2020
Project Number: 1413.001.02.501B
Description: American Linen

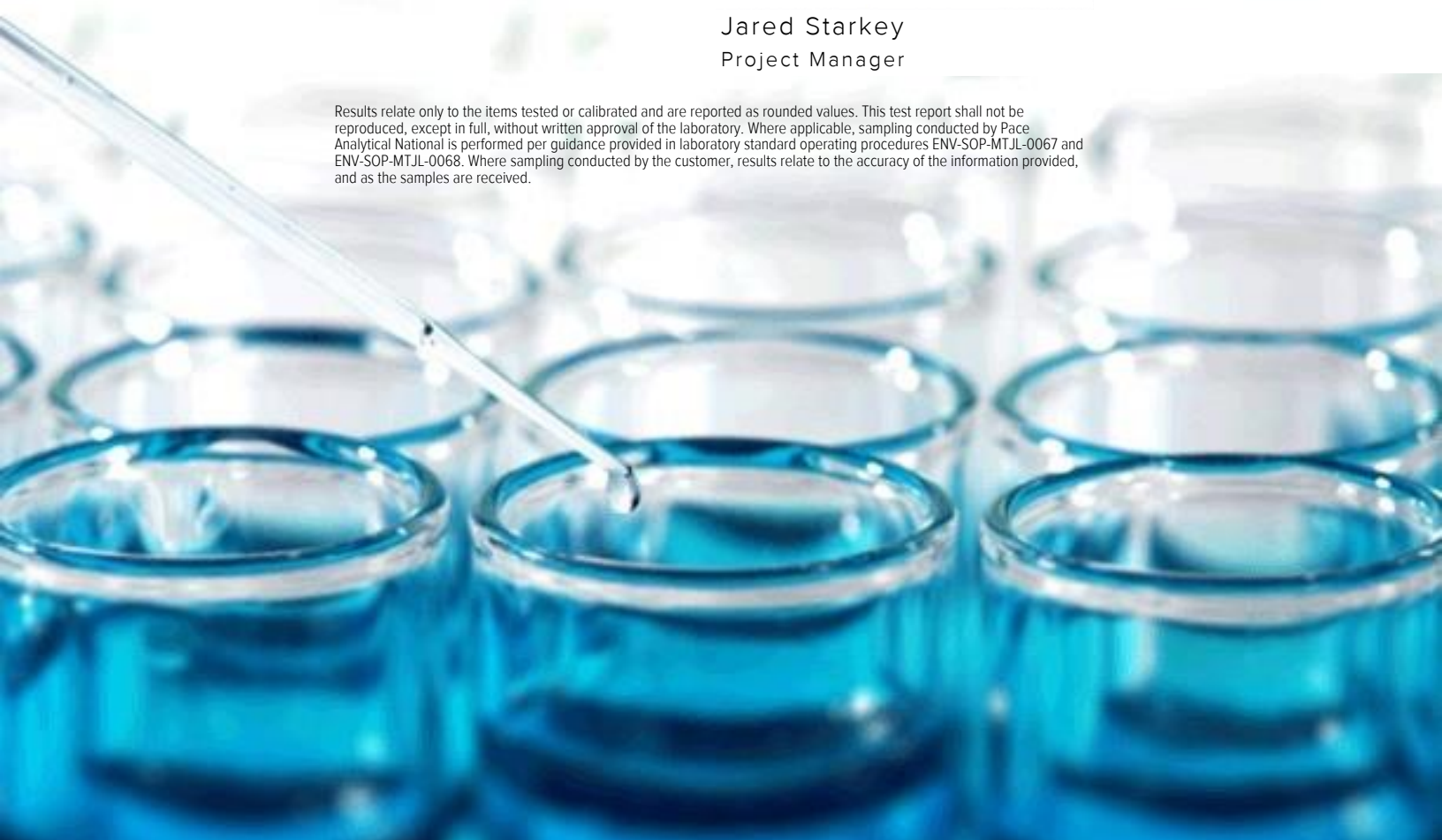
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

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.





Cp: Cover Page	1	¹Cp
Tc: Table of Contents	2	²Tc
Ss: Sample Summary	3	³Ss
Cn: Case Narrative	4	⁴Cn
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MW-341-85 L1215745-02	7	
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MW-341-95 L1215745-04	11	
MW-341-99 L1215745-05	13	⁶Qc
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Qc: Quality Control Summary	19	⁸Al
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SAMPLE SUMMARY



MW-2021-85 L1215745-01 Solid

Collected by
R. McLaughlin

Collected date/time
05/04/20 12:00

Received date/time
05/06/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1475034	1	05/14/20 13:29	05/14/20 13:41	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1474179	1	05/04/20 12:00	05/11/20 22:20	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1474881	1	05/04/20 12:00	05/12/20 20:57	JHH	Mt. Juliet, TN

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

MW-341-85 L1215745-02 Solid

Collected by
R. McLaughlin

Collected date/time
05/04/20 14:30

Received date/time
05/06/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1475034	1	05/14/20 13:29	05/14/20 13:41	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1474179	1	05/04/20 14:30	05/11/20 22:39	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1474881	1	05/04/20 14:30	05/12/20 21:16	JHH	Mt. Juliet, TN

MW-341-90 L1215745-03 Solid

Collected by
R. McLaughlin

Collected date/time
05/04/20 14:32

Received date/time
05/06/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1475034	1	05/14/20 13:29	05/14/20 13:41	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1474179	1	05/04/20 14:32	05/11/20 22:58	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1474881	1	05/04/20 14:32	05/12/20 21:34	JHH	Mt. Juliet, TN

MW-341-95 L1215745-04 Solid

Collected by
R. McLaughlin

Collected date/time
05/04/20 14:35

Received date/time
05/06/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1475034	1	05/14/20 13:29	05/14/20 13:41	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1474179	1	05/04/20 14:35	05/11/20 23:17	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1474881	1	05/04/20 14:35	05/12/20 21:53	JHH	Mt. Juliet, TN

MW-341-99 L1215745-05 Solid

Collected by
R. McLaughlin

Collected date/time
05/04/20 14:42

Received date/time
05/06/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1475034	1	05/14/20 13:29	05/14/20 13:41	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1474179	1	05/04/20 14:42	05/11/20 23:36	BMB	Mt. Juliet, TN

MW-341-104 L1215745-06 Solid

Collected by
R. McLaughlin

Collected date/time
05/04/20 15:00

Received date/time
05/06/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1475034	1	05/14/20 13:29	05/14/20 13:41	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1474179	1	05/04/20 15:00	05/11/20 23:55	BMB	Mt. Juliet, TN

TB-050520 L1215745-07 GW

Collected by
R. McLaughlin

Collected date/time
05/05/20 10:00

Received date/time
05/06/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1474033	1	05/11/20 15:04	05/11/20 15:04	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1474778	1	05/13/20 05:20	05/13/20 05:20	ADM	Mt. Juliet, TN



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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.9		1	05/14/2020 13:41	WG1475034

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0420	0.0576	1	05/11/2020 22:20	WG1474179
Acrylonitrile	U		0.00416	0.0144	1	05/11/2020 22:20	WG1474179
Benzene	0.0226		0.000538	0.00115	1	05/11/2020 22:20	WG1474179
Bromobenzene	U		0.00104	0.0144	1	05/11/2020 22:20	WG1474179
Bromodichloromethane	U		0.000835	0.00288	1	05/11/2020 22:20	WG1474179
Bromochloromethane	U	J4	0.000649	0.00576	1	05/11/2020 22:20	WG1474179
Bromoform	U		0.00135	0.0288	1	05/11/2020 22:20	WG1474179
Bromomethane	U		0.00227	0.0144	1	05/11/2020 22:20	WG1474179
n-Butylbenzene	U		0.00604	0.0144	1	05/11/2020 22:20	WG1474179
sec-Butylbenzene	U		0.00332	0.0144	1	05/11/2020 22:20	WG1474179
tert-Butylbenzene	U		0.00224	0.00576	1	05/11/2020 22:20	WG1474179
Carbon disulfide	U		0.000806	0.0144	1	05/11/2020 22:20	WG1474179
Carbon tetrachloride	U		0.00103	0.00576	1	05/11/2020 22:20	WG1474179
Chlorobenzene	U		0.000242	0.00288	1	05/11/2020 22:20	WG1474179
Chlorodibromomethane	U		0.000705	0.00288	1	05/11/2020 22:20	WG1474179
Chloroethane	U		0.00196	0.00576	1	05/11/2020 22:20	WG1474179
Chloroform	U		0.00119	0.00288	1	05/11/2020 22:20	WG1474179
Chloromethane	U		0.00501	0.0144	1	05/11/2020 22:20	WG1474179
2-Chlorotoluene	U		0.000996	0.00288	1	05/11/2020 22:20	WG1474179
4-Chlorotoluene	U		0.000518	0.00576	1	05/11/2020 22:20	WG1474179
1,2-Dibromo-3-Chloropropane	U		0.00449	0.0288	1	05/11/2020 22:20	WG1474179
1,2-Dibromoethane	U		0.000746	0.00288	1	05/11/2020 22:20	WG1474179
Dibromomethane	U		0.000863	0.00576	1	05/11/2020 22:20	WG1474179
1,2-Dichlorobenzene	U		0.000489	0.00576	1	05/11/2020 22:20	WG1474179
1,3-Dichlorobenzene	U		0.000691	0.00576	1	05/11/2020 22:20	WG1474179
1,4-Dichlorobenzene	U		0.000806	0.00576	1	05/11/2020 22:20	WG1474179
Dichlorodifluoromethane	U		0.00185	0.00288	1	05/11/2020 22:20	WG1474179
1,1-Dichloroethane	U		0.000565	0.00288	1	05/11/2020 22:20	WG1474179
1,2-Dichloroethane	U		0.000747	0.00288	1	05/11/2020 22:20	WG1474179
1,1-Dichloroethene	U		0.000698	0.00288	1	05/11/2020 22:20	WG1474179
cis-1,2-Dichloroethene	0.00774		0.000845	0.00288	1	05/11/2020 22:20	WG1474179
trans-1,2-Dichloroethene	U		0.00120	0.00576	1	05/11/2020 22:20	WG1474179
1,2-Dichloropropane	U		0.00163	0.00576	1	05/11/2020 22:20	WG1474179
1,1-Dichloropropene	U		0.000931	0.00288	1	05/11/2020 22:20	WG1474179
1,3-Dichloropropane	U		0.000577	0.00576	1	05/11/2020 22:20	WG1474179
cis-1,3-Dichloropropene	U		0.000871	0.00288	1	05/11/2020 22:20	WG1474179
trans-1,3-Dichloropropene	U		0.00131	0.00576	1	05/11/2020 22:20	WG1474179
trans-1,4-Dichloro-2-butene	U		0.00214	0.00576	1	05/11/2020 22:20	WG1474179
2,2-Dichloropropane	U		0.00159	0.00288	1	05/11/2020 22:20	WG1474179
Di-isopropyl ether	U		0.000472	0.00115	1	05/11/2020 22:20	WG1474179
Ethylbenzene	U		0.000848	0.00288	1	05/11/2020 22:20	WG1474179
Hexachloro-1,3-butadiene	U		0.00691	0.0288	1	05/11/2020 22:20	WG1474179
2-Hexanone	U		0.00387	0.0288	1	05/11/2020 22:20	WG1474179
n-Hexane	U		0.00260	0.00576	1	05/11/2020 22:20	WG1474179
Iodomethane	U		0.00267	0.0144	1	05/11/2020 22:20	WG1474179
Isopropylbenzene	U		0.000489	0.00288	1	05/11/2020 22:20	WG1474179
p-Isopropyltoluene	U		0.00294	0.00576	1	05/11/2020 22:20	WG1474179
2-Butanone (MEK)	U		0.0731	0.115	1	05/11/2020 22:20	WG1474179
Methylene Chloride	U		0.00764	0.0288	1	05/11/2020 22:20	WG1474179
4-Methyl-2-pentanone (MIBK)	U		0.00262	0.0288	1	05/11/2020 22:20	WG1474179

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



Collected date/time: 05/04/20 12:00

L1215745

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000403	0.00115	1	05/11/2020 22:20	WG1474179
Naphthalene	U		0.00562	0.0144	1	05/12/2020 20:57	WG1474881
n-Propylbenzene	U		0.00109	0.00576	1	05/11/2020 22:20	WG1474179
Styrene	U		0.000264	0.0144	1	05/11/2020 22:20	WG1474179
1,1,1,2-Tetrachloroethane	U		0.00109	0.00288	1	05/11/2020 22:20	WG1474179
1,1,2,2-Tetrachloroethane	U		0.000800	0.00288	1	05/11/2020 22:20	WG1474179
1,1,2-Trichlorotrifluoroethane	U		0.000868	0.00288	1	05/11/2020 22:20	WG1474179
Tetrachloroethene	0.0670		0.00103	0.00288	1	05/11/2020 22:20	WG1474179
Toluene	U		0.00150	0.00576	1	05/11/2020 22:20	WG1474179
1,2,3-Trichlorobenzene	U		0.00844	0.0144	1	05/11/2020 22:20	WG1474179
1,2,4-Trichlorobenzene	U		0.00507	0.0144	1	05/11/2020 22:20	WG1474179
1,1,1-Trichloroethane	U		0.00106	0.00288	1	05/11/2020 22:20	WG1474179
1,1,2-Trichloroethane	U		0.000687	0.00288	1	05/11/2020 22:20	WG1474179
Trichloroethene	0.0132		0.000672	0.00115	1	05/11/2020 22:20	WG1474179
Trichlorofluoromethane	U		0.000952	0.00288	1	05/11/2020 22:20	WG1474179
1,2,3-Trichloropropane	U		0.00187	0.0144	1	05/11/2020 22:20	WG1474179
1,2,4-Trimethylbenzene	U		0.00182	0.00576	1	05/11/2020 22:20	WG1474179
1,2,3-Trimethylbenzene	U		0.00182	0.00576	1	05/11/2020 22:20	WG1474179
1,3,5-Trimethylbenzene	U		0.00230	0.00576	1	05/11/2020 22:20	WG1474179
Vinyl acetate	U		0.00292	0.0144	1	05/11/2020 22:20	WG1474179
Vinyl chloride	U		0.00134	0.00288	1	05/11/2020 22:20	WG1474179
Xylenes, Total	U		0.00101	0.00748	1	05/11/2020 22:20	WG1474179
(S) Toluene-d8	101			75.0-131		05/11/2020 22:20	WG1474179
(S) Toluene-d8	107			75.0-131		05/12/2020 20:57	WG1474881
(S) 4-Bromofluorobenzene	99.4			67.0-138		05/11/2020 22:20	WG1474179
(S) 4-Bromofluorobenzene	85.1			67.0-138		05/12/2020 20:57	WG1474881
(S) 1,2-Dichloroethane-d4	107			70.0-130		05/11/2020 22:20	WG1474179
(S) 1,2-Dichloroethane-d4	89.4			70.0-130		05/12/2020 20:57	WG1474881

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.0		1	05/14/2020 13:41	WG1475034

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0415	0.0568	1	05/11/2020 22:39	WG1474179
Acrylonitrile	U		0.00410	0.0142	1	05/11/2020 22:39	WG1474179
Benzene	0.0194		0.000531	0.00114	1	05/11/2020 22:39	WG1474179
Bromobenzene	U		0.00102	0.0142	1	05/11/2020 22:39	WG1474179
Bromodichloromethane	U		0.000824	0.00284	1	05/11/2020 22:39	WG1474179
Bromochloromethane	U	J4	0.000641	0.00568	1	05/11/2020 22:39	WG1474179
Bromoform	U		0.00133	0.0284	1	05/11/2020 22:39	WG1474179
Bromomethane	U		0.00224	0.0142	1	05/11/2020 22:39	WG1474179
n-Butylbenzene	U		0.00596	0.0142	1	05/11/2020 22:39	WG1474179
sec-Butylbenzene	U		0.00327	0.0142	1	05/11/2020 22:39	WG1474179
tert-Butylbenzene	U		0.00222	0.00568	1	05/11/2020 22:39	WG1474179
Carbon disulfide	U		0.000795	0.0142	1	05/11/2020 22:39	WG1474179
Carbon tetrachloride	U		0.00102	0.00568	1	05/11/2020 22:39	WG1474179
Chlorobenzene	U		0.000239	0.00284	1	05/11/2020 22:39	WG1474179
Chlorodibromomethane	U		0.000695	0.00284	1	05/11/2020 22:39	WG1474179
Chloroethane	U		0.00193	0.00568	1	05/11/2020 22:39	WG1474179
Chloroform	U		0.00117	0.00284	1	05/11/2020 22:39	WG1474179
Chloromethane	U		0.00494	0.0142	1	05/11/2020 22:39	WG1474179
2-Chlorotoluene	U		0.000983	0.00284	1	05/11/2020 22:39	WG1474179
4-Chlorotoluene	U		0.000511	0.00568	1	05/11/2020 22:39	WG1474179
1,2-Dibromo-3-Chloropropane	U		0.00443	0.0284	1	05/11/2020 22:39	WG1474179
1,2-Dibromoethane	U		0.000736	0.00284	1	05/11/2020 22:39	WG1474179
Dibromomethane	U		0.000852	0.00568	1	05/11/2020 22:39	WG1474179
1,2-Dichlorobenzene	U		0.000483	0.00568	1	05/11/2020 22:39	WG1474179
1,3-Dichlorobenzene	U		0.000682	0.00568	1	05/11/2020 22:39	WG1474179
1,4-Dichlorobenzene	U		0.000795	0.00568	1	05/11/2020 22:39	WG1474179
Dichlorodifluoromethane	U		0.00183	0.00284	1	05/11/2020 22:39	WG1474179
1,1-Dichloroethane	U		0.000558	0.00284	1	05/11/2020 22:39	WG1474179
1,2-Dichloroethane	U		0.000737	0.00284	1	05/11/2020 22:39	WG1474179
1,1-Dichloroethene	U		0.000688	0.00284	1	05/11/2020 22:39	WG1474179
cis-1,2-Dichloroethene	0.00626		0.000834	0.00284	1	05/11/2020 22:39	WG1474179
trans-1,2-Dichloroethene	U		0.00118	0.00568	1	05/11/2020 22:39	WG1474179
1,2-Dichloropropane	U		0.00161	0.00568	1	05/11/2020 22:39	WG1474179
1,1-Dichloropropene	U		0.000919	0.00284	1	05/11/2020 22:39	WG1474179
1,3-Dichloropropane	U		0.000569	0.00568	1	05/11/2020 22:39	WG1474179
cis-1,3-Dichloropropene	U		0.000860	0.00284	1	05/11/2020 22:39	WG1474179
trans-1,3-Dichloropropene	U		0.00130	0.00568	1	05/11/2020 22:39	WG1474179
trans-1,4-Dichloro-2-butene	U		0.00211	0.00568	1	05/11/2020 22:39	WG1474179
2,2-Dichloropropane	U		0.00157	0.00284	1	05/11/2020 22:39	WG1474179
Di-isopropyl ether	U		0.000466	0.00114	1	05/11/2020 22:39	WG1474179
Ethylbenzene	U		0.000837	0.00284	1	05/11/2020 22:39	WG1474179
Hexachloro-1,3-butadiene	U		0.00682	0.0284	1	05/11/2020 22:39	WG1474179
2-Hexanone	U		0.00382	0.0284	1	05/11/2020 22:39	WG1474179
n-Hexane	U		0.00257	0.00568	1	05/11/2020 22:39	WG1474179
Iodomethane	U		0.00264	0.0142	1	05/11/2020 22:39	WG1474179
Isopropylbenzene	U		0.000483	0.00284	1	05/11/2020 22:39	WG1474179
p-Isopropyltoluene	U		0.00290	0.00568	1	05/11/2020 22:39	WG1474179
2-Butanone (MEK)	U		0.0721	0.114	1	05/11/2020 22:39	WG1474179
Methylene Chloride	U		0.00754	0.0284	1	05/11/2020 22:39	WG1474179
4-Methyl-2-pentanone (MIBK)	U		0.00259	0.0284	1	05/11/2020 22:39	WG1474179

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



Collected date/time: 05/04/20 14:30

L1215745

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000398	0.00114	1	05/11/2020 22:39	WG1474179
Naphthalene	U		0.00554	0.0142	1	05/12/2020 21:16	WG1474881
n-Propylbenzene	U		0.00108	0.00568	1	05/11/2020 22:39	WG1474179
Styrene	U		0.000260	0.0142	1	05/11/2020 22:39	WG1474179
1,1,1,2-Tetrachloroethane	U		0.00108	0.00284	1	05/11/2020 22:39	WG1474179
1,1,2,2-Tetrachloroethane	U		0.000790	0.00284	1	05/11/2020 22:39	WG1474179
1,1,2-Trichlorotrifluoroethane	U		0.000857	0.00284	1	05/11/2020 22:39	WG1474179
Tetrachloroethene	0.0488		0.00102	0.00284	1	05/11/2020 22:39	WG1474179
Toluene	U		0.00148	0.00568	1	05/11/2020 22:39	WG1474179
1,2,3-Trichlorobenzene	U		0.00833	0.0142	1	05/11/2020 22:39	WG1474179
1,2,4-Trichlorobenzene	U		0.00500	0.0142	1	05/11/2020 22:39	WG1474179
1,1,1-Trichloroethane	U		0.00105	0.00284	1	05/11/2020 22:39	WG1474179
1,1,2-Trichloroethane	U		0.000678	0.00284	1	05/11/2020 22:39	WG1474179
Trichloroethene	0.00855		0.000663	0.00114	1	05/11/2020 22:39	WG1474179
Trichlorofluoromethane	U		0.000940	0.00284	1	05/11/2020 22:39	WG1474179
1,2,3-Trichloropropane	U		0.00184	0.0142	1	05/11/2020 22:39	WG1474179
1,2,4-Trimethylbenzene	U		0.00179	0.00568	1	05/11/2020 22:39	WG1474179
1,2,3-Trimethylbenzene	U		0.00179	0.00568	1	05/11/2020 22:39	WG1474179
1,3,5-Trimethylbenzene	U		0.00227	0.00568	1	05/11/2020 22:39	WG1474179
Vinyl acetate	U		0.00289	0.0142	1	05/11/2020 22:39	WG1474179
Vinyl chloride	U		0.00132	0.00284	1	05/11/2020 22:39	WG1474179
Xylenes, Total	U		0.00100	0.00738	1	05/11/2020 22:39	WG1474179
(S) Toluene-d8	98.2			75.0-131		05/11/2020 22:39	WG1474179
(S) Toluene-d8	108			75.0-131		05/12/2020 21:16	WG1474881
(S) 4-Bromofluorobenzene	97.2			67.0-138		05/11/2020 22:39	WG1474179
(S) 4-Bromofluorobenzene	84.5			67.0-138		05/12/2020 21:16	WG1474881
(S) 1,2-Dichloroethane-d4	109			70.0-130		05/11/2020 22:39	WG1474179
(S) 1,2-Dichloroethane-d4	90.5			70.0-130		05/12/2020 21:16	WG1474881

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.9		1	05/14/2020 13:41	WG1475034

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0411	0.0562	1	05/11/2020 22:58	WG1474179
Acrylonitrile	U		0.00406	0.0141	1	05/11/2020 22:58	WG1474179
Benzene	0.0278		0.000525	0.00112	1	05/11/2020 22:58	WG1474179
Bromobenzene	U		0.00101	0.0141	1	05/11/2020 22:58	WG1474179
Bromodichloromethane	U		0.000816	0.00281	1	05/11/2020 22:58	WG1474179
Bromochloromethane	U	J4	0.000634	0.00562	1	05/11/2020 22:58	WG1474179
Bromoform	U		0.00132	0.0281	1	05/11/2020 22:58	WG1474179
Bromomethane	U		0.00222	0.0141	1	05/11/2020 22:58	WG1474179
n-Butylbenzene	U		0.00591	0.0141	1	05/11/2020 22:58	WG1474179
sec-Butylbenzene	U		0.00324	0.0141	1	05/11/2020 22:58	WG1474179
tert-Butylbenzene	U		0.00219	0.00562	1	05/11/2020 22:58	WG1474179
Carbon disulfide	U		0.000787	0.0141	1	05/11/2020 22:58	WG1474179
Carbon tetrachloride	U		0.00101	0.00562	1	05/11/2020 22:58	WG1474179
Chlorobenzene	U		0.000236	0.00281	1	05/11/2020 22:58	WG1474179
Chlorodibromomethane	U		0.000688	0.00281	1	05/11/2020 22:58	WG1474179
Chloroethane	U		0.00191	0.00562	1	05/11/2020 22:58	WG1474179
Chloroform	U		0.00116	0.00281	1	05/11/2020 22:58	WG1474179
Chloromethane	U		0.00489	0.0141	1	05/11/2020 22:58	WG1474179
2-Chlorotoluene	U		0.000973	0.00281	1	05/11/2020 22:58	WG1474179
4-Chlorotoluene	U		0.000506	0.00562	1	05/11/2020 22:58	WG1474179
1,2-Dibromo-3-Chloropropane	U		0.00439	0.0281	1	05/11/2020 22:58	WG1474179
1,2-Dibromoethane	U		0.000729	0.00281	1	05/11/2020 22:58	WG1474179
Dibromomethane	U		0.000844	0.00562	1	05/11/2020 22:58	WG1474179
1,2-Dichlorobenzene	U		0.000478	0.00562	1	05/11/2020 22:58	WG1474179
1,3-Dichlorobenzene	U		0.000675	0.00562	1	05/11/2020 22:58	WG1474179
1,4-Dichlorobenzene	U		0.000787	0.00562	1	05/11/2020 22:58	WG1474179
Dichlorodifluoromethane	U		0.00181	0.00281	1	05/11/2020 22:58	WG1474179
1,1-Dichloroethane	U		0.000552	0.00281	1	05/11/2020 22:58	WG1474179
1,2-Dichloroethane	U		0.000730	0.00281	1	05/11/2020 22:58	WG1474179
1,1-Dichloroethene	U		0.000682	0.00281	1	05/11/2020 22:58	WG1474179
cis-1,2-Dichloroethene	0.0179		0.000826	0.00281	1	05/11/2020 22:58	WG1474179
trans-1,2-Dichloroethene	U		0.00117	0.00562	1	05/11/2020 22:58	WG1474179
1,2-Dichloropropane	U		0.00160	0.00562	1	05/11/2020 22:58	WG1474179
1,1-Dichloropropene	U		0.000910	0.00281	1	05/11/2020 22:58	WG1474179
1,3-Dichloropropane	U		0.000564	0.00562	1	05/11/2020 22:58	WG1474179
cis-1,3-Dichloropropene	U		0.000852	0.00281	1	05/11/2020 22:58	WG1474179
trans-1,3-Dichloropropene	U		0.00128	0.00562	1	05/11/2020 22:58	WG1474179
trans-1,4-Dichloro-2-butene	U		0.00209	0.00562	1	05/11/2020 22:58	WG1474179
2,2-Dichloropropane	U		0.00155	0.00281	1	05/11/2020 22:58	WG1474179
Di-isopropyl ether	U		0.000461	0.00112	1	05/11/2020 22:58	WG1474179
Ethylbenzene	U		0.000829	0.00281	1	05/11/2020 22:58	WG1474179
Hexachloro-1,3-butadiene	U		0.00675	0.0281	1	05/11/2020 22:58	WG1474179
2-Hexanone	U		0.00378	0.0281	1	05/11/2020 22:58	WG1474179
n-Hexane	U		0.00254	0.00562	1	05/11/2020 22:58	WG1474179
Iodomethane	U		0.00261	0.0141	1	05/11/2020 22:58	WG1474179
Isopropylbenzene	U		0.000478	0.00281	1	05/11/2020 22:58	WG1474179
p-Isopropyltoluene	U		0.00287	0.00562	1	05/11/2020 22:58	WG1474179
2-Butanone (MEK)	U		0.0714	0.112	1	05/11/2020 22:58	WG1474179
Methylene Chloride	U		0.00747	0.0281	1	05/11/2020 22:58	WG1474179
4-Methyl-2-pentanone (MIBK)	U		0.00256	0.0281	1	05/11/2020 22:58	WG1474179

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000394	0.00112	1	05/11/2020 22:58	WG1474179
Naphthalene	U		0.00549	0.0141	1	05/12/2020 21:34	WG1474881
n-Propylbenzene	U		0.00107	0.00562	1	05/11/2020 22:58	WG1474179
Styrene	U		0.000258	0.0141	1	05/11/2020 22:58	WG1474179
1,1,1,2-Tetrachloroethane	U		0.00107	0.00281	1	05/11/2020 22:58	WG1474179
1,1,2,2-Tetrachloroethane	U		0.000782	0.00281	1	05/11/2020 22:58	WG1474179
1,1,2-Trichlorotrifluoroethane	U		0.000848	0.00281	1	05/11/2020 22:58	WG1474179
Tetrachloroethene	0.0603		0.00101	0.00281	1	05/11/2020 22:58	WG1474179
Toluene	U		0.00146	0.00562	1	05/11/2020 22:58	WG1474179
1,2,3-Trichlorobenzene	U		0.00825	0.0141	1	05/11/2020 22:58	WG1474179
1,2,4-Trichlorobenzene	U		0.00495	0.0141	1	05/11/2020 22:58	WG1474179
1,1,1-Trichloroethane	U		0.00104	0.00281	1	05/11/2020 22:58	WG1474179
1,1,2-Trichloroethane	U		0.000672	0.00281	1	05/11/2020 22:58	WG1474179
Trichloroethene	0.0549		0.000657	0.00112	1	05/11/2020 22:58	WG1474179
Trichlorofluoromethane	U		0.000930	0.00281	1	05/11/2020 22:58	WG1474179
1,2,3-Trichloropropane	U		0.00182	0.0141	1	05/11/2020 22:58	WG1474179
1,2,4-Trimethylbenzene	U		0.00178	0.00562	1	05/11/2020 22:58	WG1474179
1,2,3-Trimethylbenzene	U		0.00178	0.00562	1	05/11/2020 22:58	WG1474179
1,3,5-Trimethylbenzene	U		0.00225	0.00562	1	05/11/2020 22:58	WG1474179
Vinyl acetate	U		0.00286	0.0141	1	05/11/2020 22:58	WG1474179
Vinyl chloride	U		0.00130	0.00281	1	05/11/2020 22:58	WG1474179
Xylenes, Total	U		0.000990	0.00731	1	05/11/2020 22:58	WG1474179
(S) Toluene-d8	96.9			75.0-131		05/11/2020 22:58	WG1474179
(S) Toluene-d8	107			75.0-131		05/12/2020 21:34	WG1474881
(S) 4-Bromofluorobenzene	96.4			67.0-138		05/11/2020 22:58	WG1474179
(S) 4-Bromofluorobenzene	87.1			67.0-138		05/12/2020 21:34	WG1474881
(S) 1,2-Dichloroethane-d4	106			70.0-130		05/11/2020 22:58	WG1474179
(S) 1,2-Dichloroethane-d4	85.5			70.0-130		05/12/2020 21:34	WG1474881

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.8		1	05/14/2020 13:41	WG1475034

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0425	0.0583	1	05/11/2020 23:17	WG1474179
Acrylonitrile	U		0.00421	0.0146	1	05/11/2020 23:17	WG1474179
Benzene	0.0491		0.000544	0.00117	1	05/11/2020 23:17	WG1474179
Bromobenzene	U		0.00105	0.0146	1	05/11/2020 23:17	WG1474179
Bromodichloromethane	U		0.000845	0.00291	1	05/11/2020 23:17	WG1474179
Bromochloromethane	U	J4	0.000657	0.00583	1	05/11/2020 23:17	WG1474179
Bromoform	U		0.00136	0.0291	1	05/11/2020 23:17	WG1474179
Bromomethane	U		0.00230	0.0146	1	05/11/2020 23:17	WG1474179
n-Butylbenzene	U		0.00612	0.0146	1	05/11/2020 23:17	WG1474179
sec-Butylbenzene	U		0.00336	0.0146	1	05/11/2020 23:17	WG1474179
tert-Butylbenzene	U		0.00227	0.00583	1	05/11/2020 23:17	WG1474179
Carbon disulfide	U		0.000816	0.0146	1	05/11/2020 23:17	WG1474179
Carbon tetrachloride	U		0.00105	0.00583	1	05/11/2020 23:17	WG1474179
Chlorobenzene	U		0.000245	0.00291	1	05/11/2020 23:17	WG1474179
Chlorodibromomethane	U		0.000713	0.00291	1	05/11/2020 23:17	WG1474179
Chloroethane	U		0.00198	0.00583	1	05/11/2020 23:17	WG1474179
Chloroform	U		0.00120	0.00291	1	05/11/2020 23:17	WG1474179
Chloromethane	U		0.00507	0.0146	1	05/11/2020 23:17	WG1474179
2-Chlorotoluene	U		0.00101	0.00291	1	05/11/2020 23:17	WG1474179
4-Chlorotoluene	U		0.000524	0.00583	1	05/11/2020 23:17	WG1474179
1,2-Dibromo-3-Chloropropane	U		0.00454	0.0291	1	05/11/2020 23:17	WG1474179
1,2-Dibromoethane	U		0.000755	0.00291	1	05/11/2020 23:17	WG1474179
Dibromomethane	U		0.000874	0.00583	1	05/11/2020 23:17	WG1474179
1,2-Dichlorobenzene	U		0.000495	0.00583	1	05/11/2020 23:17	WG1474179
1,3-Dichlorobenzene	U		0.000699	0.00583	1	05/11/2020 23:17	WG1474179
1,4-Dichlorobenzene	U		0.000816	0.00583	1	05/11/2020 23:17	WG1474179
Dichlorodifluoromethane	U		0.00188	0.00291	1	05/11/2020 23:17	WG1474179
1,1-Dichloroethane	U		0.000572	0.00291	1	05/11/2020 23:17	WG1474179
1,2-Dichloroethane	U		0.000756	0.00291	1	05/11/2020 23:17	WG1474179
1,1-Dichloroethene	U		0.000706	0.00291	1	05/11/2020 23:17	WG1474179
cis-1,2-Dichloroethene	0.0692		0.000855	0.00291	1	05/11/2020 23:17	WG1474179
trans-1,2-Dichloroethene	U		0.00121	0.00583	1	05/11/2020 23:17	WG1474179
1,2-Dichloropropane	U		0.00165	0.00583	1	05/11/2020 23:17	WG1474179
1,1-Dichloropropene	U		0.000943	0.00291	1	05/11/2020 23:17	WG1474179
1,3-Dichloropropane	U		0.000584	0.00583	1	05/11/2020 23:17	WG1474179
cis-1,3-Dichloropropene	U		0.000882	0.00291	1	05/11/2020 23:17	WG1474179
trans-1,3-Dichloropropene	U		0.00133	0.00583	1	05/11/2020 23:17	WG1474179
trans-1,4-Dichloro-2-butene	U		0.00217	0.00583	1	05/11/2020 23:17	WG1474179
2,2-Dichloropropane	U		0.00161	0.00291	1	05/11/2020 23:17	WG1474179
Di-isopropyl ether	U		0.000478	0.00117	1	05/11/2020 23:17	WG1474179
Ethylbenzene	U		0.000859	0.00291	1	05/11/2020 23:17	WG1474179
Hexachloro-1,3-butadiene	U		0.00699	0.0291	1	05/11/2020 23:17	WG1474179
2-Hexanone	U		0.00391	0.0291	1	05/11/2020 23:17	WG1474179
n-Hexane	U		0.00263	0.00583	1	05/11/2020 23:17	WG1474179
Iodomethane	U		0.00270	0.0146	1	05/11/2020 23:17	WG1474179
Isopropylbenzene	U		0.000495	0.00291	1	05/11/2020 23:17	WG1474179
p-Isopropyltoluene	U		0.00297	0.00583	1	05/11/2020 23:17	WG1474179
2-Butanone (MEK)	U		0.0740	0.117	1	05/11/2020 23:17	WG1474179
Methylene Chloride	U		0.00774	0.0291	1	05/11/2020 23:17	WG1474179
4-Methyl-2-pentanone (MIBK)	U		0.00266	0.0291	1	05/11/2020 23:17	WG1474179

- 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 (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000408	0.00117	1	05/11/2020 23:17	WG1474179
Naphthalene	U		0.00569	0.0146	1	05/12/2020 21:53	WG1474881
n-Propylbenzene	U		0.00111	0.00583	1	05/11/2020 23:17	WG1474179
Styrene	U		0.000267	0.0146	1	05/11/2020 23:17	WG1474179
1,1,1,2-Tetrachloroethane	U		0.00110	0.00291	1	05/11/2020 23:17	WG1474179
1,1,2,2-Tetrachloroethane	U		0.000810	0.00291	1	05/11/2020 23:17	WG1474179
1,1,2-Trichlorotrifluoroethane	U		0.000879	0.00291	1	05/11/2020 23:17	WG1474179
Tetrachloroethene	U		0.00104	0.00291	1	05/11/2020 23:17	WG1474179
Toluene	U		0.00151	0.00583	1	05/11/2020 23:17	WG1474179
1,2,3-Trichlorobenzene	U		0.00854	0.0146	1	05/11/2020 23:17	WG1474179
1,2,4-Trichlorobenzene	U		0.00513	0.0146	1	05/11/2020 23:17	WG1474179
1,1,1-Trichloroethane	U		0.00108	0.00291	1	05/11/2020 23:17	WG1474179
1,1,2-Trichloroethane	U		0.000696	0.00291	1	05/11/2020 23:17	WG1474179
Trichloroethene	U		0.000680	0.00117	1	05/11/2020 23:17	WG1474179
Trichlorofluoromethane	U		0.000964	0.00291	1	05/11/2020 23:17	WG1474179
1,2,3-Trichloropropane	U		0.00189	0.0146	1	05/11/2020 23:17	WG1474179
1,2,4-Trimethylbenzene	U		0.00184	0.00583	1	05/11/2020 23:17	WG1474179
1,2,3-Trimethylbenzene	U		0.00184	0.00583	1	05/11/2020 23:17	WG1474179
1,3,5-Trimethylbenzene	U		0.00233	0.00583	1	05/11/2020 23:17	WG1474179
Vinyl acetate	U		0.00296	0.0146	1	05/11/2020 23:17	WG1474179
Vinyl chloride	U		0.00135	0.00291	1	05/11/2020 23:17	WG1474179
Xylenes, Total	U		0.00103	0.00757	1	05/11/2020 23:17	WG1474179
(S) Toluene-d8	98.4			75.0-131		05/11/2020 23:17	WG1474179
(S) Toluene-d8	105			75.0-131		05/12/2020 21:53	WG1474881
(S) 4-Bromofluorobenzene	97.4			67.0-138		05/11/2020 23:17	WG1474179
(S) 4-Bromofluorobenzene	86.7			67.0-138		05/12/2020 21:53	WG1474881
(S) 1,2-Dichloroethane-d4	112			70.0-130		05/11/2020 23:17	WG1474179
(S) 1,2-Dichloroethane-d4	90.1			70.0-130		05/12/2020 21:53	WG1474881

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



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.3		1	05/14/2020 13:41	WG1475034

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0428	0.0586	1	05/11/2020 23:36	WG1474179
Acrylonitrile	U		0.00423	0.0147	1	05/11/2020 23:36	WG1474179
Benzene	0.0400		0.000548	0.00117	1	05/11/2020 23:36	WG1474179
Bromobenzene	U		0.00106	0.0147	1	05/11/2020 23:36	WG1474179
Bromodichloromethane	U		0.000850	0.00293	1	05/11/2020 23:36	WG1474179
Bromochloromethane	U	J4	0.000661	0.00586	1	05/11/2020 23:36	WG1474179
Bromoform	U		0.00137	0.0293	1	05/11/2020 23:36	WG1474179
Bromomethane	U		0.00231	0.0147	1	05/11/2020 23:36	WG1474179
n-Butylbenzene	U		0.00616	0.0147	1	05/11/2020 23:36	WG1474179
sec-Butylbenzene	U		0.00338	0.0147	1	05/11/2020 23:36	WG1474179
tert-Butylbenzene	U		0.00229	0.00586	1	05/11/2020 23:36	WG1474179
Carbon disulfide	U		0.000821	0.0147	1	05/11/2020 23:36	WG1474179
Carbon tetrachloride	U		0.00105	0.00586	1	05/11/2020 23:36	WG1474179
Chlorobenzene	U		0.000246	0.00293	1	05/11/2020 23:36	WG1474179
Chlorodibromomethane	U		0.000718	0.00293	1	05/11/2020 23:36	WG1474179
Chloroethane	U		0.00199	0.00586	1	05/11/2020 23:36	WG1474179
Chloroform	U		0.00121	0.00293	1	05/11/2020 23:36	WG1474179
Chloromethane	U		0.00510	0.0147	1	05/11/2020 23:36	WG1474179
2-Chlorotoluene	U		0.00101	0.00293	1	05/11/2020 23:36	WG1474179
4-Chlorotoluene	U		0.000528	0.00586	1	05/11/2020 23:36	WG1474179
1,2-Dibromo-3-Chloropropane	U		0.00457	0.0293	1	05/11/2020 23:36	WG1474179
1,2-Dibromoethane	U		0.000760	0.00293	1	05/11/2020 23:36	WG1474179
Dibromomethane	U		0.000879	0.00586	1	05/11/2020 23:36	WG1474179
1,2-Dichlorobenzene	U		0.000498	0.00586	1	05/11/2020 23:36	WG1474179
1,3-Dichlorobenzene	U		0.000703	0.00586	1	05/11/2020 23:36	WG1474179
1,4-Dichlorobenzene	U		0.000821	0.00586	1	05/11/2020 23:36	WG1474179
Dichlorodifluoromethane	U		0.00189	0.00293	1	05/11/2020 23:36	WG1474179
1,1-Dichloroethane	U		0.000576	0.00293	1	05/11/2020 23:36	WG1474179
1,2-Dichloroethane	U		0.000761	0.00293	1	05/11/2020 23:36	WG1474179
1,1-Dichloroethene	U		0.000710	0.00293	1	05/11/2020 23:36	WG1474179
cis-1,2-Dichloroethene	0.0587		0.000861	0.00293	1	05/11/2020 23:36	WG1474179
trans-1,2-Dichloroethene	U		0.00122	0.00586	1	05/11/2020 23:36	WG1474179
1,2-Dichloropropane	U		0.00166	0.00586	1	05/11/2020 23:36	WG1474179
1,1-Dichloropropene	U		0.000948	0.00293	1	05/11/2020 23:36	WG1474179
1,3-Dichloropropane	U		0.000587	0.00586	1	05/11/2020 23:36	WG1474179
cis-1,3-Dichloropropene	U		0.000888	0.00293	1	05/11/2020 23:36	WG1474179
trans-1,3-Dichloropropene	U		0.00134	0.00586	1	05/11/2020 23:36	WG1474179
trans-1,4-Dichloro-2-butene	U		0.00218	0.00586	1	05/11/2020 23:36	WG1474179
2,2-Dichloropropane	U		0.00162	0.00293	1	05/11/2020 23:36	WG1474179
Di-isopropyl ether	U		0.000481	0.00117	1	05/11/2020 23:36	WG1474179
Ethylbenzene	U		0.000864	0.00293	1	05/11/2020 23:36	WG1474179
Hexachloro-1,3-butadiene	U		0.00703	0.0293	1	05/11/2020 23:36	WG1474179
2-Hexanone	U		0.00394	0.0293	1	05/11/2020 23:36	WG1474179
n-Hexane	U		0.00265	0.00586	1	05/11/2020 23:36	WG1474179
Iodomethane	U		0.00272	0.0147	1	05/11/2020 23:36	WG1474179
Isopropylbenzene	U		0.000498	0.00293	1	05/11/2020 23:36	WG1474179
p-Isopropyltoluene	U		0.00299	0.00586	1	05/11/2020 23:36	WG1474179
2-Butanone (MEK)	U		0.0744	0.117	1	05/11/2020 23:36	WG1474179
Methylene Chloride	U		0.00778	0.0293	1	05/11/2020 23:36	WG1474179
4-Methyl-2-pentanone (MIBK)	U		0.00267	0.0293	1	05/11/2020 23:36	WG1474179

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



Collected date/time: 05/04/20 14:42

L1215745

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000410	0.00117	1	05/11/2020 23:36	WG1474179
Naphthalene	U		0.00572	0.0147	1	05/11/2020 23:36	WG1474179
n-Propylbenzene	U		0.00111	0.00586	1	05/11/2020 23:36	WG1474179
Styrene	U		0.000268	0.0147	1	05/11/2020 23:36	WG1474179
1,1,1,2-Tetrachloroethane	U		0.00111	0.00293	1	05/11/2020 23:36	WG1474179
1,1,2,2-Tetrachloroethane	U		0.000815	0.00293	1	05/11/2020 23:36	WG1474179
1,1,2-Trichlorotrifluoroethane	U		0.000884	0.00293	1	05/11/2020 23:36	WG1474179
Tetrachloroethene	U		0.00105	0.00293	1	05/11/2020 23:36	WG1474179
Toluene	U		0.00152	0.00586	1	05/11/2020 23:36	WG1474179
1,2,3-Trichlorobenzene	U		0.00859	0.0147	1	05/11/2020 23:36	WG1474179
1,2,4-Trichlorobenzene	U		0.00516	0.0147	1	05/11/2020 23:36	WG1474179
1,1,1-Trichloroethane	U		0.00108	0.00293	1	05/11/2020 23:36	WG1474179
1,1,2-Trichloroethane	U		0.000700	0.00293	1	05/11/2020 23:36	WG1474179
Trichloroethene	U		0.000685	0.00117	1	05/11/2020 23:36	WG1474179
Trichlorofluoromethane	U		0.000970	0.00293	1	05/11/2020 23:36	WG1474179
1,2,3-Trichloropropane	U		0.00190	0.0147	1	05/11/2020 23:36	WG1474179
1,2,4-Trimethylbenzene	U		0.00185	0.00586	1	05/11/2020 23:36	WG1474179
1,2,3-Trimethylbenzene	U		0.00185	0.00586	1	05/11/2020 23:36	WG1474179
1,3,5-Trimethylbenzene	U		0.00234	0.00586	1	05/11/2020 23:36	WG1474179
Vinyl acetate	U		0.00298	0.0147	1	05/11/2020 23:36	WG1474179
Vinyl chloride	U		0.00136	0.00293	1	05/11/2020 23:36	WG1474179
Xylenes, Total	U		0.00103	0.00762	1	05/11/2020 23:36	WG1474179
(S) Toluene-d8	100			75.0-131		05/11/2020 23:36	WG1474179
(S) 4-Bromofluorobenzene	97.6			67.0-138		05/11/2020 23:36	WG1474179
(S) 1,2-Dichloroethane-d4	109			70.0-130		05/11/2020 23:36	WG1474179

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.8		1	05/14/2020 13:41	WG1475034

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0435	0.0596	1	05/11/2020 23:55	WG1474179
Acrylonitrile	U		0.00431	0.0149	1	05/11/2020 23:55	WG1474179
Benzene	0.0315		0.000557	0.00119	1	05/11/2020 23:55	WG1474179
Bromobenzene	U		0.00107	0.0149	1	05/11/2020 23:55	WG1474179
Bromodichloromethane	U		0.000865	0.00298	1	05/11/2020 23:55	WG1474179
Bromochloromethane	U	J4	0.000673	0.00596	1	05/11/2020 23:55	WG1474179
Bromoform	U		0.00140	0.0298	1	05/11/2020 23:55	WG1474179
Bromomethane	U		0.00235	0.0149	1	05/11/2020 23:55	WG1474179
n-Butylbenzene	U		0.00626	0.0149	1	05/11/2020 23:55	WG1474179
sec-Butylbenzene	U		0.00344	0.0149	1	05/11/2020 23:55	WG1474179
tert-Butylbenzene	U		0.00233	0.00596	1	05/11/2020 23:55	WG1474179
Carbon disulfide	U		0.000835	0.0149	1	05/11/2020 23:55	WG1474179
Carbon tetrachloride	U		0.00107	0.00596	1	05/11/2020 23:55	WG1474179
Chlorobenzene	U		0.000250	0.00298	1	05/11/2020 23:55	WG1474179
Chlorodibromomethane	U		0.000730	0.00298	1	05/11/2020 23:55	WG1474179
Chloroethane	U		0.00203	0.00596	1	05/11/2020 23:55	WG1474179
Chloroform	U		0.00123	0.00298	1	05/11/2020 23:55	WG1474179
Chloromethane	U		0.00519	0.0149	1	05/11/2020 23:55	WG1474179
2-Chlorotoluene	U		0.00103	0.00298	1	05/11/2020 23:55	WG1474179
4-Chlorotoluene	U		0.000537	0.00596	1	05/11/2020 23:55	WG1474179
1,2-Dibromo-3-Chloropropane	U		0.00465	0.0298	1	05/11/2020 23:55	WG1474179
1,2-Dibromoethane	U		0.000773	0.00298	1	05/11/2020 23:55	WG1474179
Dibromomethane	U		0.000895	0.00596	1	05/11/2020 23:55	WG1474179
1,2-Dichlorobenzene	U		0.000507	0.00596	1	05/11/2020 23:55	WG1474179
1,3-Dichlorobenzene	U		0.000716	0.00596	1	05/11/2020 23:55	WG1474179
1,4-Dichlorobenzene	U		0.000835	0.00596	1	05/11/2020 23:55	WG1474179
Dichlorodifluoromethane	U		0.00192	0.00298	1	05/11/2020 23:55	WG1474179
1,1-Dichloroethane	U		0.000586	0.00298	1	05/11/2020 23:55	WG1474179
1,2-Dichloroethane	U		0.000774	0.00298	1	05/11/2020 23:55	WG1474179
1,1-Dichloroethene	U		0.000723	0.00298	1	05/11/2020 23:55	WG1474179
cis-1,2-Dichloroethene	0.0514		0.000876	0.00298	1	05/11/2020 23:55	WG1474179
trans-1,2-Dichloroethene	U		0.00124	0.00596	1	05/11/2020 23:55	WG1474179
1,2-Dichloropropane	U		0.00169	0.00596	1	05/11/2020 23:55	WG1474179
1,1-Dichloropropene	U		0.000965	0.00298	1	05/11/2020 23:55	WG1474179
1,3-Dichloropropane	U		0.000598	0.00596	1	05/11/2020 23:55	WG1474179
cis-1,3-Dichloropropene	U		0.000903	0.00298	1	05/11/2020 23:55	WG1474179
trans-1,3-Dichloropropene	U		0.00136	0.00596	1	05/11/2020 23:55	WG1474179
trans-1,4-Dichloro-2-butene	U		0.00222	0.00596	1	05/11/2020 23:55	WG1474179
2,2-Dichloropropane	U		0.00165	0.00298	1	05/11/2020 23:55	WG1474179
Di-isopropyl ether	U		0.000489	0.00119	1	05/11/2020 23:55	WG1474179
Ethylbenzene	U		0.000879	0.00298	1	05/11/2020 23:55	WG1474179
Hexachloro-1,3-butadiene	U		0.00716	0.0298	1	05/11/2020 23:55	WG1474179
2-Hexanone	U		0.00401	0.0298	1	05/11/2020 23:55	WG1474179
n-Hexane	U		0.00270	0.00596	1	05/11/2020 23:55	WG1474179
Iodomethane	U		0.00277	0.0149	1	05/11/2020 23:55	WG1474179
Isopropylbenzene	U		0.000507	0.00298	1	05/11/2020 23:55	WG1474179
p-Isopropyltoluene	U		0.00304	0.00596	1	05/11/2020 23:55	WG1474179
2-Butanone (MEK)	U		0.0757	0.119	1	05/11/2020 23:55	WG1474179
Methylene Chloride	U		0.00792	0.0298	1	05/11/2020 23:55	WG1474179
4-Methyl-2-pentanone (MIBK)	U		0.00272	0.0298	1	05/11/2020 23:55	WG1474179

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



Collected date/time: 05/04/20 15:00

L1215745

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000417	0.00119	1	05/11/2020 23:55	WG1474179
Naphthalene	U		0.00582	0.0149	1	05/11/2020 23:55	WG1474179
n-Propylbenzene	U		0.00113	0.00596	1	05/11/2020 23:55	WG1474179
Styrene	U		0.000273	0.0149	1	05/11/2020 23:55	WG1474179
1,1,1,2-Tetrachloroethane	U		0.00113	0.00298	1	05/11/2020 23:55	WG1474179
1,1,2,2-Tetrachloroethane	U		0.000829	0.00298	1	05/11/2020 23:55	WG1474179
1,1,2-Trichlorotrifluoroethane	U		0.000899	0.00298	1	05/11/2020 23:55	WG1474179
Tetrachloroethene	U		0.00107	0.00298	1	05/11/2020 23:55	WG1474179
Toluene	U		0.00155	0.00596	1	05/11/2020 23:55	WG1474179
1,2,3-Trichlorobenzene	U		0.00874	0.0149	1	05/11/2020 23:55	WG1474179
1,2,4-Trichlorobenzene	U		0.00525	0.0149	1	05/11/2020 23:55	WG1474179
1,1,1-Trichloroethane	U		0.00110	0.00298	1	05/11/2020 23:55	WG1474179
1,1,2-Trichloroethane	U		0.000712	0.00298	1	05/11/2020 23:55	WG1474179
Trichloroethene	U		0.000697	0.00119	1	05/11/2020 23:55	WG1474179
Trichlorofluoromethane	U		0.000986	0.00298	1	05/11/2020 23:55	WG1474179
1,2,3-Trichloropropane	U		0.00193	0.0149	1	05/11/2020 23:55	WG1474179
1,2,4-Trimethylbenzene	U		0.00188	0.00596	1	05/11/2020 23:55	WG1474179
1,2,3-Trimethylbenzene	U		0.00188	0.00596	1	05/11/2020 23:55	WG1474179
1,3,5-Trimethylbenzene	U		0.00239	0.00596	1	05/11/2020 23:55	WG1474179
Vinyl acetate	U		0.00303	0.0149	1	05/11/2020 23:55	WG1474179
Vinyl chloride	U		0.00138	0.00298	1	05/11/2020 23:55	WG1474179
Xylenes, Total	U		0.00105	0.00775	1	05/11/2020 23:55	WG1474179
(S) Toluene-d8	98.1			75.0-131		05/11/2020 23:55	WG1474179
(S) 4-Bromofluorobenzene	96.0			67.0-138		05/11/2020 23:55	WG1474179
(S) 1,2-Dichloroethane-d4	109			70.0-130		05/11/2020 23:55	WG1474179

- 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		11.3	25.0	1	05/11/2020 15:04	WG1474033
Acrylonitrile	U		0.671	5.00	1	05/11/2020 15:04	WG1474033
Benzene	U		0.0941	0.500	1	05/11/2020 15:04	WG1474033
Bromobenzene	U		0.118	0.500	1	05/11/2020 15:04	WG1474033
Bromodichloromethane	U		0.136	0.500	1	05/11/2020 15:04	WG1474033
Bromochloromethane	U		0.128	0.500	1	05/11/2020 15:04	WG1474033
Bromoform	U		0.129	0.500	1	05/11/2020 15:04	WG1474033
Bromomethane	U		0.605	2.50	1	05/11/2020 15:04	WG1474033
n-Butylbenzene	U		0.157	0.500	1	05/11/2020 15:04	WG1474033
sec-Butylbenzene	U		0.125	0.500	1	05/11/2020 15:04	WG1474033
tert-Butylbenzene	U		0.127	0.500	1	05/11/2020 15:04	WG1474033
Carbon disulfide	U		0.0962	0.500	1	05/11/2020 15:04	WG1474033
Carbon tetrachloride	U		0.128	0.500	1	05/11/2020 15:04	WG1474033
Chlorobenzene	U		0.117	0.500	1	05/11/2020 15:04	WG1474033
Chlorodibromomethane	U		0.140	0.500	1	05/11/2020 15:04	WG1474033
Chloroethane	U		0.192	2.50	1	05/11/2020 15:04	WG1474033
Chloroform	U		0.111	0.500	1	05/11/2020 15:04	WG1474033
Chloromethane	U		0.960	1.25	1	05/11/2020 15:04	WG1474033
2-Chlorotoluene	U		0.106	0.500	1	05/11/2020 15:04	WG1474033
4-Chlorotoluene	U		0.114	0.500	1	05/11/2020 15:04	WG1474033
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/11/2020 15:04	WG1474033
1,2-Dibromoethane	U		0.126	0.500	1	05/11/2020 15:04	WG1474033
Dibromomethane	U		0.122	0.500	1	05/11/2020 15:04	WG1474033
1,2-Dichlorobenzene	U		0.107	0.500	1	05/11/2020 15:04	WG1474033
1,3-Dichlorobenzene	U		0.299	0.500	1	05/11/2020 15:04	WG1474033
1,4-Dichlorobenzene	U		0.120	0.500	1	05/11/2020 15:04	WG1474033
Dichlorodifluoromethane	U		0.374	2.50	1	05/11/2020 15:04	WG1474033
1,1-Dichloroethane	U		0.100	0.500	1	05/11/2020 15:04	WG1474033
1,2-Dichloroethane	U		0.0819	0.500	1	05/11/2020 15:04	WG1474033
1,1-Dichloroethene	U		0.188	0.500	1	05/11/2020 15:04	WG1474033
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/11/2020 15:04	WG1474033
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/11/2020 15:04	WG1474033
1,2-Dichloropropane	U		0.149	0.500	1	05/11/2020 15:04	WG1474033
1,1-Dichloropropene	U		0.142	0.500	1	05/11/2020 15:04	WG1474033
1,3-Dichloropropane	U		0.109	1.00	1	05/11/2020 15:04	WG1474033
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/11/2020 15:04	WG1474033
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/11/2020 15:04	WG1474033
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/11/2020 15:04	WG1474033
2,2-Dichloropropane	U		0.161	0.500	1	05/11/2020 15:04	WG1474033
Di-isopropyl ether	U		0.105	0.500	1	05/11/2020 15:04	WG1474033
Ethylbenzene	U		0.137	0.500	1	05/11/2020 15:04	WG1474033
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.337	1.00	1	05/11/2020 15:04	WG1474033
2-Hexanone	U		0.787	5.00	1	05/11/2020 15:04	WG1474033
n-Hexane	U		0.749	5.00	1	05/11/2020 15:04	WG1474033
Iodomethane	U		0.554	5.00	1	05/11/2020 15:04	WG1474033
Isopropylbenzene	U		0.105	0.500	1	05/11/2020 15:04	WG1474033
p-Isopropyltoluene	U		0.120	0.500	1	05/11/2020 15:04	WG1474033
2-Butanone (MEK)	U		1.19	5.00	1	05/11/2020 15:04	WG1474033
Methylene Chloride	U		0.430	2.50	1	05/11/2020 15:04	WG1474033
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/11/2020 15:04	WG1474033
Methyl tert-butyl ether	U		0.101	0.500	1	05/11/2020 15:04	WG1474033
Naphthalene	0.335	<u>J</u>	0.174	2.50	1	05/13/2020 05:20	WG1474778
n-Propylbenzene	U		0.0993	0.500	1	05/11/2020 15:04	WG1474033
Styrene	U		0.118	0.500	1	05/11/2020 15:04	WG1474033
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/11/2020 15:04	WG1474033
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/11/2020 15:04	WG1474033

- 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-Trichlorotrifluoroethane	U		0.180	0.500	1	05/11/2020 15:04	WG1474033
Tetrachloroethene	U		0.300	0.500	1	05/11/2020 15:04	WG1474033
Toluene	U		0.278	0.500	1	05/11/2020 15:04	WG1474033
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	05/11/2020 15:04	WG1474033
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.481	1.00	1	05/11/2020 15:04	WG1474033
1,1,1-Trichloroethane	U		0.149	0.500	1	05/11/2020 15:04	WG1474033
1,1,2-Trichloroethane	U		0.158	0.500	1	05/11/2020 15:04	WG1474033
Trichloroethene	U		0.190	0.500	1	05/11/2020 15:04	WG1474033
Trichlorofluoromethane	U		0.160	2.50	1	05/11/2020 15:04	WG1474033
1,2,3-Trichloropropane	U		0.237	2.50	1	05/11/2020 15:04	WG1474033
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/11/2020 15:04	WG1474033
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/11/2020 15:04	WG1474033
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/11/2020 15:04	WG1474033
Vinyl acetate	U		0.692	5.00	1	05/11/2020 15:04	WG1474033
Vinyl chloride	U		0.234	0.500	1	05/11/2020 15:04	WG1474033
Xylenes, Total	U		0.174	1.50	1	05/11/2020 15:04	WG1474033
(S) Toluene-d8	108			80.0-120		05/11/2020 15:04	WG1474033
(S) Toluene-d8	98.5			80.0-120		05/13/2020 05:20	WG1474778
(S) 4-Bromofluorobenzene	106			77.0-126		05/11/2020 15:04	WG1474033
(S) 4-Bromofluorobenzene	90.2			77.0-126		05/13/2020 05:20	WG1474778
(S) 1,2-Dichloroethane-d4	109			70.0-130		05/11/2020 15:04	WG1474033
(S) 1,2-Dichloroethane-d4	93.6			70.0-130		05/13/2020 05:20	WG1474778

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3528211-1 05/14/20 13:41

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

L1215748-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1215748-01 05/14/20 13:41 • (DUP) R3528211-3 05/14/20 13:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
	%	%		%		%
Total Solids	77.6	78.2	1	0.848		10

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3528211-2 05/14/20 13:41

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	



Method Blank (MB)

(MB) R3527116-3 05/11/20 11:26

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromochloromethane	U		0.128	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
trans-1,4-Dichloro-2-butene	U		0.467	5.00
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3527116-3 05/11/20 11:26

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	0.500
Hexachloro-1,3-butadiene	U		0.337	1.00
2-Hexanone	U		0.787	5.00
n-Hexane	U		0.749	5.00
Iodomethane	U		0.554	5.00
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	0.500
1,2,4-Trimethylbenzene	U		0.322	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl acetate	U		0.692	5.00
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	108			80.0-120
(S) 4-Bromofluorobenzene	103			77.0-126
(S) 1,2-Dichloroethane-d4	114			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) R3527116-1 05/11/20 10:28 • (LCSD) R3527116-2 05/11/20 10:47

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	33.2	35.2	133	141	19.0-160			5.85	27
Acrylonitrile	25.0	22.1	24.3	88.4	97.2	55.0-149			9.48	20
Benzene	5.00	4.08	4.36	81.6	87.2	70.0-123			6.64	20
Bromobenzene	5.00	4.31	4.51	86.2	90.2	73.0-121			4.54	20
Bromodichloromethane	5.00	4.84	4.81	96.8	96.2	75.0-120			0.622	20
Bromochloromethane	5.00	5.03	5.11	101	102	76.0-122			1.58	20
Bromoform	5.00	4.77	4.92	95.4	98.4	68.0-132			3.10	20
Bromomethane	5.00	4.45	4.90	89.0	98.0	10.0-160			9.63	25
n-Butylbenzene	5.00	4.01	4.42	80.2	88.4	73.0-125			9.73	20
sec-Butylbenzene	5.00	4.26	4.75	85.2	95.0	75.0-125			10.9	20
tert-Butylbenzene	5.00	4.30	4.65	86.0	93.0	76.0-124			7.82	20
Carbon disulfide	5.00	4.23	4.63	84.6	92.6	61.0-128			9.03	20
Carbon tetrachloride	5.00	4.56	5.01	91.2	100	68.0-126			9.40	20
Chlorobenzene	5.00	4.36	4.63	87.2	92.6	80.0-121			6.01	20
Chlorodibromomethane	5.00	4.65	4.85	93.0	97.0	77.0-125			4.21	20
Chloroethane	5.00	4.71	5.07	94.2	101	47.0-150			7.36	20
Chloroform	5.00	4.34	4.60	86.8	92.0	73.0-120			5.82	20
Chloromethane	5.00	5.06	5.48	101	110	41.0-142			7.97	20
2-Chlorotoluene	5.00	4.27	4.51	85.4	90.2	76.0-123			5.47	20
4-Chlorotoluene	5.00	4.35	4.71	87.0	94.2	75.0-122			7.95	20
1,2-Dibromo-3-Chloropropane	5.00	4.50	4.55	90.0	91.0	58.0-134			1.10	20
1,2-Dibromoethane	5.00	4.58	4.75	91.6	95.0	80.0-122			3.64	20
Dibromomethane	5.00	4.61	4.94	92.2	98.8	80.0-120			6.91	20
1,2-Dichlorobenzene	5.00	4.33	4.47	86.6	89.4	79.0-121			3.18	20
1,3-Dichlorobenzene	5.00	4.27	4.64	85.4	92.8	79.0-120			8.31	20
1,4-Dichlorobenzene	5.00	4.25	4.56	85.0	91.2	79.0-120			7.04	20
trans-1,4-Dichloro-2-butene	5.00	4.83	5.18	96.6	104	33.0-144			6.99	20
Dichlorodifluoromethane	5.00	4.13	4.61	82.6	92.2	51.0-149			11.0	20
1,1-Dichloroethane	5.00	4.56	4.73	91.2	94.6	70.0-126			3.66	20
1,2-Dichloroethane	5.00	4.63	4.76	92.6	95.2	70.0-128			2.77	20
1,1-Dichloroethene	5.00	4.86	5.24	97.2	105	71.0-124			7.52	20
cis-1,2-Dichloroethene	5.00	4.58	4.87	91.6	97.4	73.0-120			6.14	20
trans-1,2-Dichloroethene	5.00	4.51	4.88	90.2	97.6	73.0-120			7.88	20
1,2-Dichloropropane	5.00	4.32	4.60	86.4	92.0	77.0-125			6.28	20
1,1-Dichloropropene	5.00	4.29	4.80	85.8	96.0	74.0-126			11.2	20
1,3-Dichloropropane	5.00	4.74	4.85	94.8	97.0	80.0-120			2.29	20
cis-1,3-Dichloropropene	5.00	4.57	4.71	91.4	94.2	80.0-123			3.02	20
trans-1,3-Dichloropropene	5.00	4.76	4.95	95.2	99.0	78.0-124			3.91	20
2,2-Dichloropropane	5.00	4.65	4.83	93.0	96.6	58.0-130			3.80	20
Di-isopropyl ether	5.00	4.54	4.65	90.8	93.0	58.0-138			2.39	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) R3527116-1 05/11/20 10:28 • (LCSD) R3527116-2 05/11/20 10:47

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 %
Ethylbenzene	5.00	4.46	4.61	89.2	92.2	79.0-123			3.31	20
Hexachloro-1,3-butadiene	5.00	3.54	3.84	70.8	76.8	54.0-138			8.13	20
2-Hexanone	25.0	27.5	27.7	110	111	67.0-149			0.725	20
n-Hexane	5.00	4.77	5.34	95.4	107	57.0-133			11.3	20
Iodomethane	25.0	23.5	25.4	94.0	102	33.0-147			7.77	26
Isopropylbenzene	5.00	4.25	4.66	85.0	93.2	76.0-127			9.20	20
p-Isopropyltoluene	5.00	4.33	4.79	86.6	95.8	76.0-125			10.1	20
2-Butanone (MEK)	25.0	31.9	32.3	128	129	44.0-160			1.25	20
Methylene Chloride	5.00	4.58	4.84	91.6	96.8	67.0-120			5.52	20
4-Methyl-2-pentanone (MIBK)	25.0	26.2	26.4	105	106	68.0-142			0.760	20
Methyl tert-butyl ether	5.00	4.56	4.38	91.2	87.6	68.0-125			4.03	20
n-Propylbenzene	5.00	4.06	4.43	81.2	88.6	77.0-124			8.72	20
Styrene	5.00	4.35	4.74	87.0	94.8	73.0-130			8.58	20
1,1,1,2-Tetrachloroethane	5.00	4.45	4.82	89.0	96.4	75.0-125			7.98	20
1,1,2,2-Tetrachloroethane	5.00	4.14	4.32	82.8	86.4	65.0-130			4.26	20
Tetrachloroethene	5.00	4.45	4.86	89.0	97.2	72.0-132			8.81	20
Toluene	5.00	4.03	4.29	80.6	85.8	79.0-120			6.25	20
1,1,2-Trichlorotrifluoroethane	5.00	4.92	5.37	98.4	107	69.0-132			8.75	20
1,2,3-Trichlorobenzene	5.00	3.43	3.68	68.6	73.6	50.0-138			7.03	20
1,2,4-Trichlorobenzene	5.00	3.62	3.78	72.4	75.6	57.0-137			4.32	20
1,1,1-Trichloroethane	5.00	4.62	4.86	92.4	97.2	73.0-124			5.06	20
1,1,2-Trichloroethane	5.00	4.82	4.96	96.4	99.2	80.0-120			2.86	20
Trichloroethene	5.00	4.57	4.90	91.4	98.0	78.0-124			6.97	20
Trichlorofluoromethane	5.00	4.95	5.35	99.0	107	59.0-147			7.77	20
1,2,3-Trichloropropane	5.00	4.86	5.04	97.2	101	73.0-130			3.64	20
1,2,3-Trimethylbenzene	5.00	4.14	4.44	82.8	88.8	77.0-120			6.99	20
1,2,4-Trimethylbenzene	5.00	4.19	4.54	83.8	90.8	76.0-121			8.02	20
1,3,5-Trimethylbenzene	5.00	4.13	4.56	82.6	91.2	76.0-122			9.90	20
Vinyl acetate	25.0	28.6	27.1	114	108	11.0-160			5.39	20
Vinyl chloride	5.00	4.37	4.83	87.4	96.6	67.0-131			10.0	20
Xylenes, Total	15.0	12.7	13.7	84.7	91.3	79.0-123			7.58	20
(S) Toluene-d8				106	107	80.0-120				
(S) 4-Bromofluorobenzene				103	102	77.0-126				
(S) 1,2-Dichloroethane-d4				117	116	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



L1216199-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1216199-04 05/11/20 16:40 • (MS) R3527116-4 05/11/20 20:10 • (MSD) R3527116-5 05/11/20 20:30

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 %
Bromochloromethane	5.00	U	4.24	4.83	84.8	96.6	1	38.0-142			13.0	26
Acetone	25.0	U	33.7	33.7	135	135	1	10.0-160			0.000	35
Acrylonitrile	25.0	U	23.2	24.1	92.8	96.4	1	21.0-160			3.81	32
Benzene	5.00	U	3.47	4.07	69.4	81.4	1	17.0-158			15.9	27
Bromobenzene	5.00	U	3.84	4.48	76.8	89.6	1	30.0-149			15.4	28
Bromodichloromethane	5.00	U	4.04	4.64	80.8	92.8	1	31.0-150			13.8	27
Bromoform	5.00	U	4.32	4.70	86.4	94.0	1	29.0-150			8.43	29
Bromomethane	5.00	U	3.50	4.18	70.0	83.6	1	10.0-160			17.7	38
n-Butylbenzene	5.00	U	3.13	4.21	62.6	84.2	1	31.0-150			29.4	30
sec-Butylbenzene	5.00	U	3.40	4.47	68.0	89.4	1	33.0-155			27.2	29
tert-Butylbenzene	5.00	U	3.35	4.32	67.0	86.4	1	34.0-153			25.3	28
Carbon disulfide	5.00	U	3.14	4.08	62.8	81.6	1	10.0-156			26.0	28
Carbon tetrachloride	5.00	U	2.83	4.44	56.6	88.8	1	23.0-159		J3	44.3	28
Chlorobenzene	5.00	U	3.82	4.42	76.4	88.4	1	33.0-152			14.6	27
Chlorodibromomethane	5.00	U	4.30	4.81	86.0	96.2	1	37.0-149			11.2	27
Chloroethane	5.00	U	3.72	4.59	74.4	91.8	1	10.0-160			20.9	30
Chloroform	5.00	0.128	3.81	4.43	76.2	88.6	1	29.0-154			15.0	28
Chloromethane	5.00	U	2.95	3.30	59.0	66.0	1	10.0-160			11.2	29
trans-1,4-Dichloro-2-butene	5.00	U	4.59	4.89	91.8	97.8	1	10.0-157			6.33	37
2-Chlorotoluene	5.00	U	3.53	4.24	70.6	84.8	1	32.0-153			18.3	28
4-Chlorotoluene	5.00	U	3.77	4.53	75.4	90.6	1	32.0-150			18.3	28
1,2-Dibromo-3-Chloropropane	5.00	U	4.11	4.62	82.2	92.4	1	22.0-151			11.7	34
1,2-Dibromoethane	5.00	U	4.51	4.81	90.2	96.2	1	34.0-147			6.44	27
2-Hexanone	25.0	U	27.4	29.2	110	117	1	21.0-160			6.36	29
Dibromomethane	5.00	U	4.16	4.60	83.2	92.0	1	30.0-151			10.0	27
1,2-Dichlorobenzene	5.00	U	3.97	4.61	79.4	92.2	1	34.0-149			14.9	28
n-Hexane	5.00	U	3.52	4.87	70.4	97.4	1	10.0-153		J3	32.2	28
1,3-Dichlorobenzene	5.00	U	3.88	4.42	77.6	88.4	1	36.0-146			13.0	27
Iodomethane	25.0	U	12.6	22.8	50.4	91.2	1	10.0-160		J3	57.6	40
1,4-Dichlorobenzene	5.00	U	3.81	4.46	76.2	89.2	1	35.0-142			15.7	27
Dichlorodifluoromethane	5.00	U	2.71	3.52	54.2	70.4	1	10.0-160			26.0	29
1,1-Dichloroethane	5.00	U	3.55	4.31	71.0	86.2	1	25.0-158			19.3	27
1,2-Dichloroethane	5.00	U	4.02	4.29	80.4	85.8	1	29.0-151			6.50	27
1,1-Dichloroethene	5.00	U	3.48	4.71	69.6	94.2	1	11.0-160		J3	30.0	29
cis-1,2-Dichloroethene	5.00	U	3.88	4.61	77.6	92.2	1	10.0-160			17.2	27
trans-1,2-Dichloroethene	5.00	U	3.67	4.45	73.4	89.0	1	17.0-153			19.2	27
1,2-Dichloropropane	5.00	U	3.74	4.30	74.8	86.0	1	30.0-156			13.9	27
1,1-Dichloropropene	5.00	U	3.33	4.36	66.6	87.2	1	25.0-158			26.8	27
1,3-Dichloropropane	5.00	U	4.43	5.00	88.6	100	1	38.0-147			12.1	27
cis-1,3-Dichloropropene	5.00	U	4.04	4.44	80.8	88.8	1	34.0-149			9.43	28

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



L1216199-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1216199-04 05/11/20 16:40 • (MS) R3527116-4 05/11/20 20:10 • (MSD) R3527116-5 05/11/20 20:30

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 %
trans-1,3-Dichloropropene	5.00	U	4.38	4.97	87.6	99.4	1	32.0-149			12.6	28
2,2-Dichloropropane	5.00	U	2.99	4.61	59.8	92.2	1	24.0-152		J3	42.6	29
Di-isopropyl ether	5.00	U	3.85	4.63	77.0	92.6	1	21.0-160			18.4	28
Ethylbenzene	5.00	U	3.62	4.35	72.4	87.0	1	30.0-155			18.3	27
Hexachloro-1,3-butadiene	5.00	U	2.82	3.67	56.4	73.4	1	20.0-154			26.2	34
Isopropylbenzene	5.00	U	3.34	4.41	66.8	88.2	1	28.0-157		J3	27.6	27
Vinyl acetate	25.0	U	27.0	30.2	108	121	1	12.0-160			11.2	31
p-Isopropyltoluene	5.00	U	3.32	4.51	66.4	90.2	1	30.0-154		J3	30.4	29
2-Butanone (MEK)	25.0	U	29.9	32.3	120	129	1	10.0-160			7.72	32
Methylene Chloride	5.00	U	3.62	4.54	72.4	90.8	1	23.0-144			22.5	28
4-Methyl-2-pentanone (MIBK)	25.0	U	24.6	26.9	98.4	108	1	29.0-160			8.93	29
Methyl tert-butyl ether	5.00	U	4.02	4.64	80.4	92.8	1	28.0-150			14.3	29
n-Propylbenzene	5.00	U	3.20	4.15	64.0	83.0	1	31.0-154			25.9	28
Styrene	5.00	U	3.96	4.73	79.2	94.6	1	33.0-155			17.7	28
1,1,1,2-Tetrachloroethane	5.00	U	3.77	4.59	75.4	91.8	1	36.0-151			19.6	29
1,1,2,2-Tetrachloroethane	5.00	U	4.19	4.58	83.8	91.6	1	33.0-150			8.89	28
Tetrachloroethene	5.00	1.37	4.63	5.54	65.2	83.4	1	10.0-160			17.9	27
Toluene	5.00	U	3.33	4.09	66.6	81.8	1	26.0-154			20.5	28
1,1,2-Trichlorotrifluoroethane	5.00	U	2.25	4.90	45.0	98.0	1	23.0-160		J3	74.1	30
1,2,3-Trichlorobenzene	5.00	U	3.24	4.02	64.8	80.4	1	17.0-150			21.5	36
1,2,4-Trichlorobenzene	5.00	U	3.42	3.95	68.4	79.0	1	24.0-150			14.4	33
1,1,1-Trichloroethane	5.00	U	3.11	4.53	62.2	90.6	1	23.0-160		J3	37.2	28
1,1,2-Trichloroethane	5.00	U	4.50	4.96	90.0	99.2	1	35.0-147			9.73	27
Trichloroethene	5.00	U	3.57	4.42	71.4	88.4	1	10.0-160			21.3	25
Trichlorofluoromethane	5.00	U	3.54	4.73	70.8	94.6	1	17.0-160			28.8	31
1,2,3-Trichloropropane	5.00	U	4.56	4.98	91.2	99.6	1	34.0-151			8.81	29
1,2,3-Trimethylbenzene	5.00	U	3.52	4.28	70.4	85.6	1	32.0-149			19.5	28
1,2,4-Trimethylbenzene	5.00	U	3.45	4.30	69.0	86.0	1	26.0-154			21.9	27
1,3,5-Trimethylbenzene	5.00	U	3.31	4.29	66.2	85.8	1	28.0-153			25.8	27
Vinyl chloride	5.00	U	3.08	1.75	61.6	35.0	1	10.0-160		J3	55.1	27
Xylenes, Total	15.0	U	10.5	13.0	70.0	86.7	1	29.0-154			21.3	28
(S) Toluene-d8					107	107		80.0-120				
(S) 4-Bromofluorobenzene					102	105		77.0-126				
(S) 1,2-Dichloroethane-d4					110	111		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



L1217103-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1217103-01 05/11/20 18:54 • (MS) R3527116-6 05/11/20 20:49 • (MSD) R3527116-7 05/11/20 21:08

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 %
Bromochloromethane	5.00	U	4.89	4.91	97.8	98.2	1	38.0-142			0.408	26
Acetone	25.0	U	35.8	32.7	143	131	1	10.0-160			9.05	35
Acrylonitrile	25.0	U	24.8	20.6	99.2	82.4	1	21.0-160			18.5	32
Benzene	5.00	0.203	3.87	3.74	73.3	70.7	1	17.0-158			3.42	27
Bromobenzene	5.00	U	4.17	4.03	83.4	80.6	1	30.0-149			3.41	28
Bromodichloromethane	5.00	U	4.52	4.53	90.4	90.6	1	31.0-150			0.221	27
Bromoform	5.00	U	4.84	4.77	96.8	95.4	1	29.0-150			1.46	29
Bromomethane	5.00	U	4.21	4.01	84.2	80.2	1	10.0-160			4.87	38
n-Butylbenzene	5.00	U	4.03	3.64	80.6	72.8	1	31.0-150			10.2	30
sec-Butylbenzene	5.00	U	4.23	3.85	84.6	77.0	1	33.0-155			9.41	29
tert-Butylbenzene	5.00	U	4.06	3.79	81.2	75.8	1	34.0-153			6.88	28
Carbon disulfide	5.00	U	3.96	3.78	79.2	75.6	1	10.0-156			4.65	28
Carbon tetrachloride	5.00	U	4.13	3.85	82.6	77.0	1	23.0-159			7.02	28
Chlorobenzene	5.00	U	4.20	4.08	84.0	81.6	1	33.0-152			2.90	27
Chlorodibromomethane	5.00	U	4.64	4.72	92.8	94.4	1	37.0-149			1.71	27
Chloroethane	5.00	U	4.31	4.22	86.2	84.4	1	10.0-160			2.11	30
Chloroform	5.00	U	4.09	4.06	81.8	81.2	1	29.0-154			0.736	28
Chloromethane	5.00	U	3.21	3.05	64.2	61.0	1	10.0-160			5.11	29
trans-1,4-Dichloro-2-butene	5.00	U	4.91	4.94	98.2	98.8	1	10.0-157			0.609	37
2-Chlorotoluene	5.00	U	3.91	3.80	78.2	76.0	1	32.0-153			2.85	28
4-Chlorotoluene	5.00	U	4.09	4.02	81.8	80.4	1	32.0-150			1.73	28
1,2-Dibromo-3-Chloropropane	5.00	U	4.75	4.38	95.0	87.6	1	22.0-151			8.11	34
1,2-Dibromoethane	5.00	U	4.88	4.87	97.6	97.4	1	34.0-147			0.205	27
2-Hexanone	25.0	U	30.5	29.1	122	116	1	21.0-160			4.70	29
Dibromomethane	5.00	U	4.61	4.35	92.2	87.0	1	30.0-151			5.80	27
1,2-Dichlorobenzene	5.00	U	4.37	4.21	87.4	84.2	1	34.0-149			3.73	28
n-Hexane	5.00	U	4.60	4.38	92.0	87.6	1	10.0-153			4.90	28
1,3-Dichlorobenzene	5.00	U	4.18	4.10	83.6	82.0	1	36.0-146			1.93	27
Iodomethane	25.0	U	22.0	21.2	88.0	84.8	1	10.0-160			3.70	40
1,4-Dichlorobenzene	5.00	U	4.20	4.09	84.0	81.8	1	35.0-142			2.65	27
Dichlorodifluoromethane	5.00	U	3.43	3.23	68.6	64.6	1	10.0-160			6.01	29
1,1-Dichloroethane	5.00	U	4.15	3.95	83.0	79.0	1	25.0-158			4.94	27
1,2-Dichloroethane	5.00	U	4.34	4.22	86.8	84.4	1	29.0-151			2.80	27
1,1-Dichloroethene	5.00	U	4.41	4.12	88.2	82.4	1	11.0-160			6.80	29
cis-1,2-Dichloroethene	5.00	U	4.52	4.42	90.4	88.4	1	10.0-160			2.24	27
trans-1,2-Dichloroethene	5.00	U	4.19	4.13	83.8	82.6	1	17.0-153			1.44	27
1,2-Dichloropropane	5.00	U	4.15	4.12	83.0	82.4	1	30.0-156			0.726	27
1,1-Dichloropropene	5.00	U	4.13	3.82	82.6	76.4	1	25.0-158			7.80	27
1,3-Dichloropropane	5.00	U	4.80	4.77	96.0	95.4	1	38.0-147			0.627	27
cis-1,3-Dichloropropene	5.00	U	4.42	4.29	88.4	85.8	1	34.0-149			2.99	28

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



L1217103-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1217103-01 05/11/20 18:54 • (MS) R3527116-6 05/11/20 20:49 • (MSD) R3527116-7 05/11/20 21:08

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 %
trans-1,3-Dichloropropene	5.00	U	4.69	4.63	93.8	92.6	1	32.0-149			1.29	28
2,2-Dichloropropane	5.00	U	4.36	3.84	87.2	76.8	1	24.0-152			12.7	29
Di-isopropyl ether	5.00	U	4.48	4.39	89.6	87.8	1	21.0-160			2.03	28
Ethylbenzene	5.00	0.239	4.24	3.92	80.0	73.6	1	30.0-155			7.84	27
Hexachloro-1,3-butadiene	5.00	U	3.69	3.67	73.8	73.4	1	20.0-154			0.543	34
Isopropylbenzene	5.00	U	4.10	3.85	82.0	77.0	1	28.0-157			6.29	27
Vinyl acetate	25.0	U	31.4	29.9	126	120	1	12.0-160			4.89	31
p-Isopropyltoluene	5.00	U	4.22	3.96	84.4	79.2	1	30.0-154			6.36	29
2-Butanone (MEK)	25.0	U	34.8	32.4	139	130	1	10.0-160			7.14	32
Methylene Chloride	5.00	U	4.34	4.31	86.8	86.2	1	23.0-144			0.694	28
4-Methyl-2-pentanone (MIBK)	25.0	U	27.9	26.9	112	108	1	29.0-160			3.65	29
Methyl tert-butyl ether	5.00	U	4.80	4.52	96.0	90.4	1	28.0-150			6.01	29
n-Propylbenzene	5.00	U	3.83	3.57	76.6	71.4	1	31.0-154			7.03	28
Styrene	5.00	U	4.28	4.20	85.6	84.0	1	33.0-155			1.89	28
1,1,1,2-Tetrachloroethane	5.00	U	4.32	4.43	86.4	88.6	1	36.0-151			2.51	29
1,1,2,2-Tetrachloroethane	5.00	U	4.60	4.46	92.0	89.2	1	33.0-150			3.09	28
Tetrachloroethene	5.00	U	4.28	3.88	85.6	77.6	1	10.0-160			9.80	27
Toluene	5.00	U	3.85	3.66	77.0	73.2	1	26.0-154			5.06	28
1,1,2-Trichlorotrifluoroethane	5.00	U	4.66	4.22	93.2	84.4	1	23.0-160			9.91	30
1,2,3-Trichlorobenzene	5.00	U	3.91	3.73	78.2	74.6	1	17.0-150			4.71	36
1,2,4-Trichlorobenzene	5.00	U	3.80	3.75	76.0	75.0	1	24.0-150			1.32	33
1,1,1-Trichloroethane	5.00	U	4.19	3.95	83.8	79.0	1	23.0-160			5.90	28
1,1,2-Trichloroethane	5.00	U	4.89	4.92	97.8	98.4	1	35.0-147			0.612	27
Trichloroethene	5.00	U	4.18	3.86	83.6	77.2	1	10.0-160			7.96	25
Trichlorofluoromethane	5.00	U	2.34	1.66	46.8	33.2	1	17.0-160		J3	34.0	31
1,2,3-Trichloropropane	5.00	U	4.99	4.92	99.8	98.4	1	34.0-151			1.41	29
1,2,3-Trimethylbenzene	5.00	U	4.07	3.91	81.4	78.2	1	32.0-149			4.01	28
1,2,4-Trimethylbenzene	5.00	U	3.99	3.74	79.8	74.8	1	26.0-154			6.47	27
1,3,5-Trimethylbenzene	5.00	U	3.91	3.75	78.2	75.0	1	28.0-153			4.18	27
Vinyl chloride	5.00	U	4.04	3.56	80.8	71.2	1	10.0-160			12.6	27
Xylenes, Total	15.0	U	12.2	11.7	81.3	78.0	1	29.0-154			4.18	28
(S) Toluene-d8					105	109		80.0-120				
(S) 4-Bromofluorobenzene					104	106		77.0-126				
(S) 1,2-Dichloroethane-d4					111	112		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) R3527336-2 05/13/20 01:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Naphthalene	U		0.174	2.50
(S) Toluene-d8	95.2			80.0-120
(S) 4-Bromofluorobenzene	84.7			77.0-126
(S) 1,2-Dichloroethane-d4	91.2			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3527336-1 05/13/20 00:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	5.00	6.21	124	54.0-135	
(S) Toluene-d8			96.9	80.0-120	
(S) 4-Bromofluorobenzene			86.7	77.0-126	
(S) 1,2-Dichloroethane-d4			87.7	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) R3527149-2 05/11/20 19:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromochloromethane	U		0.000564	0.00500
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon disulfide	U		0.000700	0.0125
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
trans-1,4-Dichloro-2-butene	U		0.00186	0.00500
Dichlorodifluoromethane	U		0.00161	0.00250
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3527149-2 05/11/20 19:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
n-Hexane	U		0.00226	0.00500
2-Hexanone	U		0.00336	0.0250
Iodomethane	U		0.00232	0.0125
Isopropylbenzene	U		0.000425	0.00250
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl acetate	U		0.00254	0.0125
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	102			75.0-131
(S) 4-Bromofluorobenzene	94.0			67.0-138
(S) 1,2-Dichloroethane-d4	106			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) R3527149-1 05/11/20 18:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.573	91.7	10.0-160	
Acrylonitrile	0.625	0.709	113	45.0-153	
Benzene	0.125	0.128	102	70.0-123	
Bromobenzene	0.125	0.136	109	73.0-121	
Bromodichloromethane	0.125	0.116	92.8	73.0-121	
Bromochloromethane	0.125	0.161	129	77.0-128	J4
Bromoform	0.125	0.123	98.4	64.0-132	
Bromomethane	0.125	0.142	114	56.0-147	
n-Butylbenzene	0.125	0.125	100	68.0-135	
sec-Butylbenzene	0.125	0.131	105	74.0-130	
tert-Butylbenzene	0.125	0.123	98.4	75.0-127	
Carbon disulfide	0.125	0.111	88.8	56.0-133	
Carbon tetrachloride	0.125	0.147	118	66.0-128	
Chlorobenzene	0.125	0.120	96.0	76.0-128	
Chlorodibromomethane	0.125	0.146	117	74.0-127	
Chloroethane	0.125	0.117	93.6	61.0-134	
Chloroform	0.125	0.109	87.2	72.0-123	
Chloromethane	0.125	0.123	98.4	51.0-138	
2-Chlorotoluene	0.125	0.131	105	75.0-124	
4-Chlorotoluene	0.125	0.130	104	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.125	100	59.0-130	
1,2-Dibromoethane	0.125	0.134	107	74.0-128	
Dibromomethane	0.125	0.126	101	75.0-122	
1,2-Dichlorobenzene	0.125	0.149	119	76.0-124	
1,3-Dichlorobenzene	0.125	0.142	114	76.0-125	
1,4-Dichlorobenzene	0.125	0.130	104	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.137	110	45.0-143	
Dichlorodifluoromethane	0.125	0.115	92.0	43.0-156	
1,1-Dichloroethane	0.125	0.148	118	70.0-127	
1,2-Dichloroethane	0.125	0.113	90.4	65.0-131	
1,1-Dichloroethene	0.125	0.155	124	65.0-131	
cis-1,2-Dichloroethene	0.125	0.112	89.6	73.0-125	
trans-1,2-Dichloroethene	0.125	0.127	102	71.0-125	
1,2-Dichloropropane	0.125	0.139	111	74.0-125	
1,1-Dichloropropene	0.125	0.147	118	73.0-125	
1,3-Dichloropropane	0.125	0.123	98.4	80.0-125	
cis-1,3-Dichloropropene	0.125	0.135	108	76.0-127	
trans-1,3-Dichloropropene	0.125	0.134	107	73.0-127	
2,2-Dichloropropane	0.125	0.142	114	59.0-135	
Di-isopropyl ether	0.125	0.121	96.8	60.0-136	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3527149-1 05/11/20 18:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	0.125	0.120	96.0	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.151	121	57.0-150	
n-Hexane	0.125	0.108	86.4	55.0-137	
2-Hexanone	0.625	0.563	90.1	54.0-147	
Iodomethane	0.625	0.802	128	74.0-134	
Isopropylbenzene	0.125	0.124	99.2	72.0-127	
p-Isopropyltoluene	0.125	0.141	113	72.0-133	
2-Butanone (MEK)	0.625	0.715	114	30.0-160	
Methylene Chloride	0.125	0.128	102	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.727	116	56.0-143	
Methyl tert-butyl ether	0.125	0.137	110	66.0-132	
Naphthalene	0.125	0.142	114	59.0-130	
n-Propylbenzene	0.125	0.143	114	74.0-126	
Styrene	0.125	0.128	102	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.148	118	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.139	111	68.0-128	
Tetrachloroethene	0.125	0.134	107	70.0-136	
Toluene	0.125	0.109	87.2	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.138	110	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.138	110	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.145	116	62.0-137	
1,1,1-Trichloroethane	0.125	0.147	118	69.0-126	
1,1,2-Trichloroethane	0.125	0.123	98.4	78.0-123	
Trichloroethene	0.125	0.130	104	76.0-126	
Trichlorofluoromethane	0.125	0.151	121	61.0-142	
1,2,3-Trichloropropane	0.125	0.144	115	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.108	86.4	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.131	105	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.130	104	73.0-127	
Vinyl acetate	0.625	0.796	127	43.0-159	
Vinyl chloride	0.125	0.154	123	63.0-134	
Xylenes, Total	0.375	0.362	96.5	72.0-127	
(S) Toluene-d8			98.4	75.0-131	
(S) 4-Bromofluorobenzene			98.4	67.0-138	
(S) 1,2-Dichloroethane-d4			115	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



L1215759-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1215759-05 05/12/20 00:53 • (MS) R3527149-3 05/12/20 03:05 • (MSD) R3527149-4 05/12/20 03:24

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	U	0.415	0.430	66.4	68.8	1	10.0-160			3.55	40
Acrylonitrile	0.625	U	0.545	0.632	87.2	101	1	10.0-160			14.8	40
Benzene	0.125	U	0.130	0.131	104	105	1	10.0-149			0.766	37
Bromobenzene	0.125	U	0.143	0.121	114	96.8	1	10.0-156			16.7	38
Bromodichloromethane	0.125	U	0.114	0.115	91.2	92.0	1	10.0-143			0.873	37
Bromochloromethane	0.125	U	0.149	0.150	119	120	1	10.0-155			0.669	33
Bromoform	0.125	U	0.108	0.107	86.4	85.6	1	10.0-146			0.930	36
Bromomethane	0.125	U	0.118	0.108	94.4	86.4	1	10.0-149			8.85	38
n-Butylbenzene	0.125	U	0.124	0.113	99.2	90.4	1	10.0-160			9.28	40
sec-Butylbenzene	0.125	U	0.130	0.120	104	96.0	1	10.0-159			8.00	39
tert-Butylbenzene	0.125	U	0.123	0.112	98.4	89.6	1	10.0-156			9.36	39
Carbon disulfide	0.125	U	0.108	0.110	86.4	88.0	1	10.0-145			1.83	39
Carbon tetrachloride	0.125	U	0.140	0.139	112	111	1	10.0-145			0.717	37
Chlorobenzene	0.125	U	0.119	0.116	95.2	92.8	1	10.0-152			2.55	39
Chlorodibromomethane	0.125	U	0.136	0.129	109	103	1	10.0-146			5.28	37
Chloroethane	0.125	U	0.0994	0.0918	79.5	73.4	1	10.0-146			7.95	40
Chloroform	0.125	U	0.113	0.108	90.4	86.4	1	10.0-146			4.52	37
Chloromethane	0.125	U	0.121	0.122	96.8	97.6	1	10.0-159			0.823	37
2-Chlorotoluene	0.125	U	0.138	0.131	110	105	1	10.0-159			5.20	38
4-Chlorotoluene	0.125	U	0.132	0.118	106	94.4	1	10.0-155			11.2	39
1,2-Dibromo-3-Chloropropane	0.125	U	0.102	0.0832	81.6	66.6	1	10.0-151			20.3	39
1,2-Dibromoethane	0.125	U	0.129	0.129	103	103	1	10.0-148			0.000	34
Dibromomethane	0.125	U	0.114	0.120	91.2	96.0	1	10.0-147			5.13	35
1,2-Dichlorobenzene	0.125	U	0.146	0.129	117	103	1	10.0-155			12.4	37
1,3-Dichlorobenzene	0.125	U	0.142	0.129	114	103	1	10.0-153			9.59	38
1,4-Dichlorobenzene	0.125	U	0.128	0.117	102	93.6	1	10.0-151			8.98	38
Dichlorodifluoromethane	0.125	U	0.104	0.110	83.2	88.0	1	10.0-160			5.61	35
trans-1,4-Dichloro-2-butene	0.125	U	0.124	0.102	99.2	81.6	1	10.0-152			19.5	36
1,1-Dichloroethane	0.125	U	0.145	0.142	116	114	1	10.0-147			2.09	37
1,2-Dichloroethane	0.125	U	0.107	0.110	85.6	88.0	1	10.0-148			2.76	35
1,1-Dichloroethene	0.125	U	0.155	0.153	124	122	1	10.0-155			1.30	37
cis-1,2-Dichloroethene	0.125	U	0.110	0.121	88.0	96.8	1	10.0-149			9.52	37
trans-1,2-Dichloroethene	0.125	U	0.136	0.126	109	101	1	10.0-150			7.63	37
1,2-Dichloropropane	0.125	U	0.136	0.139	109	111	1	10.0-148			2.18	37
1,1-Dichloropropene	0.125	U	0.146	0.148	117	118	1	10.0-153			1.36	35
1,3-Dichloropropane	0.125	U	0.121	0.119	96.8	95.2	1	10.0-154			1.67	35
cis-1,3-Dichloropropene	0.125	U	0.131	0.136	105	109	1	10.0-151			3.75	37
trans-1,3-Dichloropropene	0.125	U	0.128	0.123	102	98.4	1	10.0-148			3.98	37
2,2-Dichloropropane	0.125	U	0.135	0.125	108	100	1	10.0-138			7.69	36
Di-isopropyl ether	0.125	U	0.121	0.120	96.8	96.0	1	10.0-147			0.830	36

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



L1215759-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1215759-05 05/12/20 00:53 • (MS) R3527149-3 05/12/20 03:05 • (MSD) R3527149-4 05/12/20 03:24

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.125	U	0.126	0.117	101	93.6	1	10.0-160			7.41	38
Hexachloro-1,3-butadiene	0.125	U	0.136	0.128	109	102	1	10.0-160			6.06	40
2-Hexanone	0.625	U	0.513	0.481	82.1	77.0	1	10.0-160			6.44	36
Isopropylbenzene	0.125	U	0.123	0.121	98.4	96.8	1	10.0-155			1.64	38
n-Hexane	0.125	U	0.107	0.0897	85.6	71.8	1	10.0-157			17.6	37
Iodomethane	0.625	U	0.797	0.777	128	124	1	10.0-160			2.54	38
p-Isopropyltoluene	0.125	U	0.145	0.130	116	104	1	10.0-160			10.9	40
2-Butanone (MEK)	0.625	U	0.615	0.670	98.4	107	1	10.0-160			8.56	40
Methylene Chloride	0.125	U	0.124	0.122	99.2	97.6	1	10.0-141			1.63	37
4-Methyl-2-pentanone (MIBK)	0.625	U	0.627	0.647	100	104	1	10.0-160			3.14	35
Methyl tert-butyl ether	0.125	U	0.126	0.122	101	97.6	1	11.0-147			3.23	35
Naphthalene	0.125	U	0.106	0.0967	84.8	77.4	1	10.0-160			9.18	36
n-Propylbenzene	0.125	U	0.143	0.132	114	106	1	10.0-158			8.00	38
Styrene	0.125	U	0.127	0.125	102	100	1	10.0-160			1.59	40
1,1,1,2-Tetrachloroethane	0.125	U	0.144	0.141	115	113	1	10.0-149			2.11	39
1,1,2,2-Tetrachloroethane	0.125	U	0.124	0.113	99.2	90.4	1	10.0-160			9.28	35
Tetrachloroethene	0.125	U	0.138	0.136	110	109	1	10.0-156			1.46	39
Toluene	0.125	U	0.113	0.109	90.4	87.2	1	10.0-156			3.60	38
1,1,2-Trichlorotrifluoroethane	0.125	U	0.124	0.126	99.2	101	1	10.0-160			1.60	36
1,2,3-Trichlorobenzene	0.125	U	0.110	0.105	88.0	84.0	1	10.0-160			4.65	40
1,2,4-Trichlorobenzene	0.125	U	0.130	0.123	104	98.4	1	10.0-160			5.53	40
1,1,1-Trichloroethane	0.125	U	0.147	0.141	118	113	1	10.0-144			4.17	35
1,1,2-Trichloroethane	0.125	U	0.120	0.122	96.0	97.6	1	10.0-160			1.65	35
Trichloroethene	0.125	U	0.130	0.129	104	103	1	10.0-156			0.772	38
Trichlorofluoromethane	0.125	U	0.119	0.118	95.2	94.4	1	10.0-160			0.844	40
1,2,3-Trichloropropane	0.125	U	0.128	0.126	102	101	1	10.0-156			1.57	35
1,2,3-Trimethylbenzene	0.125	U	0.111	0.103	88.8	82.4	1	10.0-160			7.48	36
1,2,4-Trimethylbenzene	0.125	U	0.133	0.120	106	96.0	1	10.0-160			10.3	36
1,3,5-Trimethylbenzene	0.125	U	0.134	0.120	107	96.0	1	10.0-160			11.0	38
Vinyl chloride	0.125	U	0.164	0.158	131	126	1	10.0-160			3.73	37
Vinyl acetate	0.625	U	0.663	0.636	106	102	1	10.0-128			4.16	40
Xylenes, Total	0.375	U	0.373	0.356	99.5	94.9	1	10.0-160			4.66	38
(S) Toluene-d8					99.4	99.3		75.0-131				
(S) 4-Bromofluorobenzene					97.8	98.0		67.0-138				
(S) 1,2-Dichloroethane-d4					109	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) R3527248-2 05/12/20 19:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Naphthalene	U		0.00488	0.0125
(S) Toluene-d8	108			75.0-131
(S) 4-Bromofluorobenzene	85.3			67.0-138
(S) 1,2-Dichloroethane-d4	86.5			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3527248-1 05/12/20 19:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	0.125	0.0900	72.0	59.0-130	
(S) Toluene-d8			102	75.0-131	
(S) 4-Bromofluorobenzene			88.3	67.0-138	
(S) 1,2-Dichloroethane-d4			98.3	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



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

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	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.

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

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
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.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
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}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

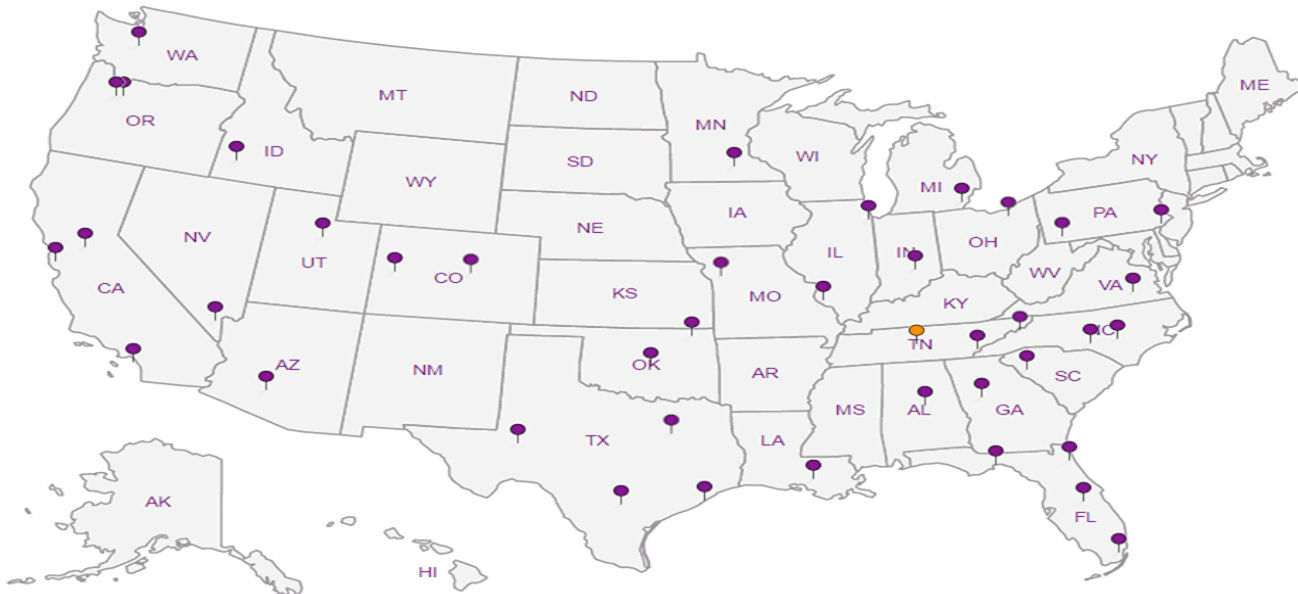
Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

PES Environmental, Inc.- WA

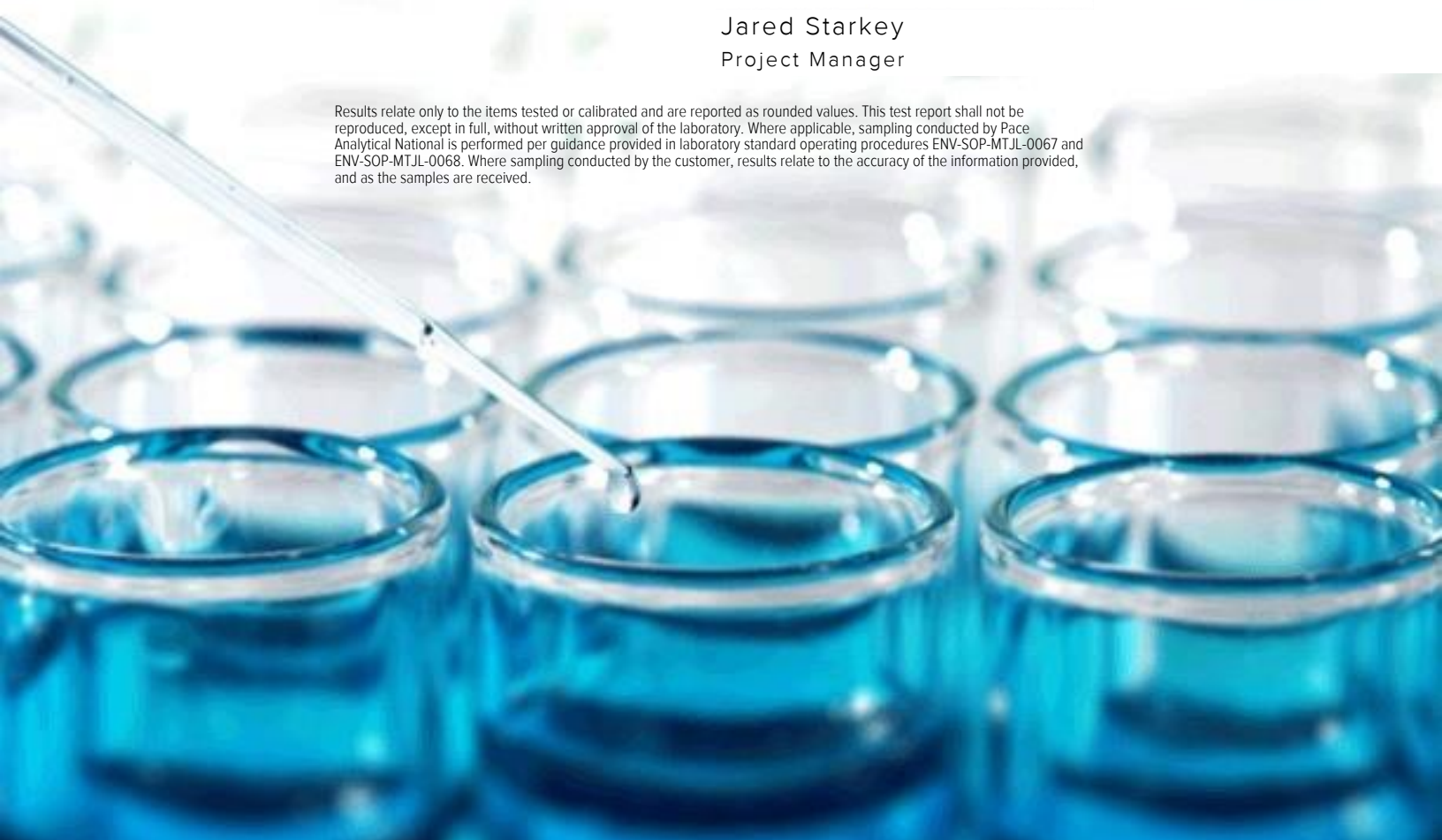
Sample Delivery Group: L1215869
Samples Received: 05/07/2020
Project Number: 1413.001.02.501E
Description: American Linen
Site: AMERICAN LINEN
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

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.





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SAMPLE SUMMARY

FMW-137-050620 L1215869-01 GW

Collected by: HRC/BLH
 Collected date/time: 05/06/20 07:35
 Received date/time: 05/07/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1472978	1	05/09/20 20:19	05/09/20 20:19	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1471933	1	05/07/20 15:19	05/07/20 15:19	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472819	1	05/08/20 20:32	05/08/20 20:32	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1472549	1	05/11/20 17:06	05/11/20 22:20	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1474309	1	05/12/20 13:13	05/12/20 13:13	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1472992	1	05/08/20 21:45	05/08/20 21:45	JHH	Mt. Juliet, TN

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

MW-8-050620 L1215869-02 GW

Collected by: HRC/BLH
 Collected date/time: 05/06/20 09:00
 Received date/time: 05/07/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1472992	1	05/08/20 22:04	05/08/20 22:04	JHH	Mt. Juliet, TN

MW-930-050620 L1215869-03 GW

Collected by: HRC/BLH
 Collected date/time: 05/06/20 10:00
 Received date/time: 05/07/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1472978	1	05/09/20 20:26	05/09/20 20:26	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1471933	1	05/07/20 15:36	05/07/20 15:36	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472819	1	05/08/20 20:45	05/08/20 20:45	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1472549	1	05/11/20 17:06	05/11/20 22:23	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1475231	1	05/13/20 17:16	05/13/20 17:16	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1474309	1	05/12/20 13:18	05/12/20 13:18	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1472992	1	05/08/20 22:23	05/08/20 22:23	JHH	Mt. Juliet, TN

MW106-050620 L1215869-04 GW

Collected by: HRC/BLH
 Collected date/time: 05/06/20 11:35
 Received date/time: 05/07/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1472978	1	05/09/20 20:43	05/09/20 20:43	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1471933	1	05/07/20 16:10	05/07/20 16:10	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472819	1	05/08/20 20:58	05/08/20 20:58	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1472549	1	05/11/20 17:06	05/11/20 22:26	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1475231	1	05/13/20 17:37	05/13/20 17:37	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1474309	1	05/12/20 13:21	05/12/20 13:21	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1472992	1	05/08/20 22:42	05/08/20 22:42	JHH	Mt. Juliet, TN

FMW-129-050620 L1215869-05 GW

Collected by: HRC/BLH
 Collected date/time: 05/06/20 11:40
 Received date/time: 05/07/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1472978	1	05/09/20 20:50	05/09/20 20:50	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1471933	1	05/07/20 17:35	05/07/20 17:35	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472819	1	05/08/20 21:15	05/08/20 21:15	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1472549	1	05/11/20 17:06	05/11/20 22:30	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1474309	1	05/12/20 13:25	05/12/20 13:25	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1473379	1	05/10/20 15:32	05/10/20 15:32	JAH	Mt. Juliet, TN

SAMPLE SUMMARY

EQ-050620 L1215869-06 GW

Collected by: HRC/BLH
 Collected date/time: 05/06/20 13:00
 Received date/time: 05/07/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1472980	1	05/11/20 20:09	05/11/20 20:09	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1471933	1	05/07/20 17:52	05/07/20 17:52	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1472819	1	05/08/20 22:47	05/08/20 22:47	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1472549	1	05/11/20 17:06	05/11/20 22:33	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1475231	1	05/13/20 18:29	05/13/20 18:29	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1474309	1	05/12/20 13:29	05/12/20 13:29	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1472732	1	05/08/20 17:46	05/08/20 17:46	ADM	Mt. Juliet, TN

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



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	699000		8450	20000	1	05/09/2020 20:19	WG1472978

Sample Narrative:

L1215869-01 WG1472978: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	44400		379	1000	1	05/07/2020 15:19	WG1471933
Nitrate	U		48.0	100	1	05/07/2020 15:19	WG1471933
Sulfate	7180		594	5000	1	05/07/2020 15:19	WG1471933

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)	5800		102	1000	1	05/08/2020 20:32	WG1472819

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	34600		48.9	100	1	05/11/2020 22:20	WG1472549
Manganese	2420		1.32	5.00	1	05/11/2020 22:20	WG1472549

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	21.8		0.287	0.678	1	05/12/2020 13:13	WG1474309
Ethane	U		0.296	1.29	1	05/12/2020 13:13	WG1474309
Ethene	U		0.422	1.27	1	05/12/2020 13:13	WG1474309

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	11.3	25.0	1	05/08/2020 21:45	WG1472992
Acrylonitrile	U		0.671	5.00	1	05/08/2020 21:45	WG1472992
Benzene	U		0.0941	0.500	1	05/08/2020 21:45	WG1472992
Bromobenzene	U		0.118	0.500	1	05/08/2020 21:45	WG1472992
Bromodichloromethane	U		0.136	0.500	1	05/08/2020 21:45	WG1472992
Bromochloromethane	U		0.128	0.500	1	05/08/2020 21:45	WG1472992
Bromoform	U		0.129	0.500	1	05/08/2020 21:45	WG1472992
Bromomethane	U		0.605	2.50	1	05/08/2020 21:45	WG1472992
n-Butylbenzene	U		0.157	0.500	1	05/08/2020 21:45	WG1472992
sec-Butylbenzene	U		0.125	0.500	1	05/08/2020 21:45	WG1472992
tert-Butylbenzene	U		0.127	0.500	1	05/08/2020 21:45	WG1472992
Carbon disulfide	U		0.0962	0.500	1	05/08/2020 21:45	WG1472992
Carbon tetrachloride	U		0.128	0.500	1	05/08/2020 21:45	WG1472992
Chlorobenzene	U		0.117	0.500	1	05/08/2020 21:45	WG1472992
Chlorodibromomethane	U		0.140	0.500	1	05/08/2020 21:45	WG1472992
Chloroethane	U		0.192	2.50	1	05/08/2020 21:45	WG1472992
Chloroform	U		0.111	0.500	1	05/08/2020 21:45	WG1472992
Chloromethane	U		0.960	1.25	1	05/08/2020 21:45	WG1472992
2-Chlorotoluene	U		0.106	0.500	1	05/08/2020 21:45	WG1472992
4-Chlorotoluene	U		0.114	0.500	1	05/08/2020 21:45	WG1472992

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	
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/08/2020 21:45	WG1472992
1,2-Dibromoethane	U		0.126	0.500	1	05/08/2020 21:45	WG1472992
Dibromomethane	U		0.122	0.500	1	05/08/2020 21:45	WG1472992
1,2-Dichlorobenzene	U		0.107	0.500	1	05/08/2020 21:45	WG1472992
1,3-Dichlorobenzene	U		0.299	0.500	1	05/08/2020 21:45	WG1472992
1,4-Dichlorobenzene	U		0.120	0.500	1	05/08/2020 21:45	WG1472992
Dichlorodifluoromethane	U		0.374	2.50	1	05/08/2020 21:45	WG1472992
1,1-Dichloroethane	U		0.100	0.500	1	05/08/2020 21:45	WG1472992
1,2-Dichloroethane	U		0.0819	0.500	1	05/08/2020 21:45	WG1472992
1,1-Dichloroethene	U		0.188	0.500	1	05/08/2020 21:45	WG1472992
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/08/2020 21:45	WG1472992
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/08/2020 21:45	WG1472992
1,2-Dichloropropane	U		0.149	0.500	1	05/08/2020 21:45	WG1472992
1,1-Dichloropropene	U		0.142	0.500	1	05/08/2020 21:45	WG1472992
1,3-Dichloropropane	U		0.109	1.00	1	05/08/2020 21:45	WG1472992
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/08/2020 21:45	WG1472992
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/08/2020 21:45	WG1472992
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/08/2020 21:45	WG1472992
2,2-Dichloropropane	U		0.161	0.500	1	05/08/2020 21:45	WG1472992
Di-isopropyl ether	U		0.105	0.500	1	05/08/2020 21:45	WG1472992
Ethylbenzene	U		0.137	0.500	1	05/08/2020 21:45	WG1472992
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/08/2020 21:45	WG1472992
2-Hexanone	U		0.787	5.00	1	05/08/2020 21:45	WG1472992
n-Hexane	U		0.749	5.00	1	05/08/2020 21:45	WG1472992
Iodomethane	U		0.554	5.00	1	05/08/2020 21:45	WG1472992
Isopropylbenzene	U		0.105	0.500	1	05/08/2020 21:45	WG1472992
p-Isopropyltoluene	U		0.120	0.500	1	05/08/2020 21:45	WG1472992
2-Butanone (MEK)	U		1.19	5.00	1	05/08/2020 21:45	WG1472992
Methylene Chloride	U		0.430	2.50	1	05/08/2020 21:45	WG1472992
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/08/2020 21:45	WG1472992
Methyl tert-butyl ether	U		0.101	0.500	1	05/08/2020 21:45	WG1472992
Naphthalene	U		0.174	2.50	1	05/08/2020 21:45	WG1472992
n-Propylbenzene	U		0.0993	0.500	1	05/08/2020 21:45	WG1472992
Styrene	U		0.118	0.500	1	05/08/2020 21:45	WG1472992
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/08/2020 21:45	WG1472992
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/08/2020 21:45	WG1472992
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/08/2020 21:45	WG1472992
Tetrachloroethene	U		0.300	0.500	1	05/08/2020 21:45	WG1472992
Toluene	U		0.278	0.500	1	05/08/2020 21:45	WG1472992
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/08/2020 21:45	WG1472992
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/08/2020 21:45	WG1472992
1,1,1-Trichloroethane	U		0.149	0.500	1	05/08/2020 21:45	WG1472992
1,1,2-Trichloroethane	U		0.158	0.500	1	05/08/2020 21:45	WG1472992
Trichloroethene	U		0.190	0.500	1	05/08/2020 21:45	WG1472992
Trichlorofluoromethane	U		0.160	2.50	1	05/08/2020 21:45	WG1472992
1,2,3-Trichloropropane	U		0.237	2.50	1	05/08/2020 21:45	WG1472992
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/08/2020 21:45	WG1472992
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/08/2020 21:45	WG1472992
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/08/2020 21:45	WG1472992
Vinyl acetate	U		0.692	5.00	1	05/08/2020 21:45	WG1472992
Vinyl chloride	U		0.234	0.500	1	05/08/2020 21:45	WG1472992
Xylenes, Total	U		0.174	1.50	1	05/08/2020 21:45	WG1472992
(S) Toluene-d8	109			80.0-120		05/08/2020 21:45	WG1472992
(S) 4-Bromofluorobenzene	102			77.0-126		05/08/2020 21:45	WG1472992
(S) 1,2-Dichloroethane-d4	114			70.0-130		05/08/2020 21:45	WG1472992

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	11.3	25.0	1	05/08/2020 22:04	WG1472992
Acrylonitrile	U		0.671	5.00	1	05/08/2020 22:04	WG1472992
Benzene	U		0.0941	0.500	1	05/08/2020 22:04	WG1472992
Bromobenzene	U		0.118	0.500	1	05/08/2020 22:04	WG1472992
Bromodichloromethane	U		0.136	0.500	1	05/08/2020 22:04	WG1472992
Bromochloromethane	U		0.128	0.500	1	05/08/2020 22:04	WG1472992
Bromoform	U		0.129	0.500	1	05/08/2020 22:04	WG1472992
Bromomethane	U		0.605	2.50	1	05/08/2020 22:04	WG1472992
n-Butylbenzene	U		0.157	0.500	1	05/08/2020 22:04	WG1472992
sec-Butylbenzene	U		0.125	0.500	1	05/08/2020 22:04	WG1472992
tert-Butylbenzene	U		0.127	0.500	1	05/08/2020 22:04	WG1472992
Carbon disulfide	U		0.0962	0.500	1	05/08/2020 22:04	WG1472992
Carbon tetrachloride	U		0.128	0.500	1	05/08/2020 22:04	WG1472992
Chlorobenzene	U		0.117	0.500	1	05/08/2020 22:04	WG1472992
Chlorodibromomethane	U		0.140	0.500	1	05/08/2020 22:04	WG1472992
Chloroethane	U		0.192	2.50	1	05/08/2020 22:04	WG1472992
Chloroform	U		0.111	0.500	1	05/08/2020 22:04	WG1472992
Chloromethane	U		0.960	1.25	1	05/08/2020 22:04	WG1472992
2-Chlorotoluene	U		0.106	0.500	1	05/08/2020 22:04	WG1472992
4-Chlorotoluene	U		0.114	0.500	1	05/08/2020 22:04	WG1472992
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/08/2020 22:04	WG1472992
1,2-Dibromoethane	U		0.126	0.500	1	05/08/2020 22:04	WG1472992
Dibromomethane	U		0.122	0.500	1	05/08/2020 22:04	WG1472992
1,2-Dichlorobenzene	U		0.107	0.500	1	05/08/2020 22:04	WG1472992
1,3-Dichlorobenzene	U		0.299	0.500	1	05/08/2020 22:04	WG1472992
1,4-Dichlorobenzene	U		0.120	0.500	1	05/08/2020 22:04	WG1472992
Dichlorodifluoromethane	U		0.374	2.50	1	05/08/2020 22:04	WG1472992
1,1-Dichloroethane	U		0.100	0.500	1	05/08/2020 22:04	WG1472992
1,2-Dichloroethane	U		0.0819	0.500	1	05/08/2020 22:04	WG1472992
1,1-Dichloroethene	U		0.188	0.500	1	05/08/2020 22:04	WG1472992
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/08/2020 22:04	WG1472992
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/08/2020 22:04	WG1472992
1,2-Dichloropropane	U		0.149	0.500	1	05/08/2020 22:04	WG1472992
1,1-Dichloropropene	U		0.142	0.500	1	05/08/2020 22:04	WG1472992
1,3-Dichloropropane	U		0.109	1.00	1	05/08/2020 22:04	WG1472992
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/08/2020 22:04	WG1472992
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/08/2020 22:04	WG1472992
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/08/2020 22:04	WG1472992
2,2-Dichloropropane	U		0.161	0.500	1	05/08/2020 22:04	WG1472992
Di-isopropyl ether	U		0.105	0.500	1	05/08/2020 22:04	WG1472992
Ethylbenzene	U		0.137	0.500	1	05/08/2020 22:04	WG1472992
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/08/2020 22:04	WG1472992
2-Hexanone	U		0.787	5.00	1	05/08/2020 22:04	WG1472992
n-Hexane	U		0.749	5.00	1	05/08/2020 22:04	WG1472992
Iodomethane	U		0.554	5.00	1	05/08/2020 22:04	WG1472992
Isopropylbenzene	U		0.105	0.500	1	05/08/2020 22:04	WG1472992
p-Isopropyltoluene	U		0.120	0.500	1	05/08/2020 22:04	WG1472992
2-Butanone (MEK)	U		1.19	5.00	1	05/08/2020 22:04	WG1472992
Methylene Chloride	U		0.430	2.50	1	05/08/2020 22:04	WG1472992
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/08/2020 22:04	WG1472992
Methyl tert-butyl ether	U		0.101	0.500	1	05/08/2020 22:04	WG1472992
Naphthalene	U		0.174	2.50	1	05/08/2020 22:04	WG1472992
n-Propylbenzene	U		0.0993	0.500	1	05/08/2020 22:04	WG1472992
Styrene	U		0.118	0.500	1	05/08/2020 22:04	WG1472992
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/08/2020 22:04	WG1472992
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/08/2020 22:04	WG1472992

- 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-Trichlorotrifluoroethane	U		0.180	0.500	1	05/08/2020 22:04	WG1472992
Tetrachloroethene	U		0.300	0.500	1	05/08/2020 22:04	WG1472992
Toluene	U		0.278	0.500	1	05/08/2020 22:04	WG1472992
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/08/2020 22:04	WG1472992
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/08/2020 22:04	WG1472992
1,1,1-Trichloroethane	U		0.149	0.500	1	05/08/2020 22:04	WG1472992
1,1,2-Trichloroethane	U		0.158	0.500	1	05/08/2020 22:04	WG1472992
Trichloroethene	U		0.190	0.500	1	05/08/2020 22:04	WG1472992
Trichlorofluoromethane	U		0.160	2.50	1	05/08/2020 22:04	WG1472992
1,2,3-Trichloropropane	U		0.237	2.50	1	05/08/2020 22:04	WG1472992
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/08/2020 22:04	WG1472992
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/08/2020 22:04	WG1472992
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/08/2020 22:04	WG1472992
Vinyl acetate	U		0.692	5.00	1	05/08/2020 22:04	WG1472992
Vinyl chloride	U		0.234	0.500	1	05/08/2020 22:04	WG1472992
Xylenes, Total	U		0.174	1.50	1	05/08/2020 22:04	WG1472992
(S) Toluene-d8	109			80.0-120		05/08/2020 22:04	WG1472992
(S) 4-Bromofluorobenzene	101			77.0-126		05/08/2020 22:04	WG1472992
(S) 1,2-Dichloroethane-d4	116			70.0-130		05/08/2020 22:04	WG1472992

- 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	276000		8450	20000	1	05/09/2020 20:26	WG1472978

Sample Narrative:

L1215869-03 WG1472978: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	23700		379	1000	1	05/07/2020 15:36	WG1471933
Nitrate	U		48.0	100	1	05/07/2020 15:36	WG1471933
Sulfate	15200		594	5000	1	05/07/2020 15:36	WG1471933

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)	2450		102	1000	1	05/08/2020 20:45	WG1472819

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	8020		48.9	100	1	05/11/2020 22:23	WG1472549
Manganese	856		1.32	5.00	1	05/11/2020 22:23	WG1472549

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	48.8	<u>B</u>	31.6	100	1	05/13/2020 17:16	WG1475231
(S) a,a,a-Trifluorotoluene(FID)	96.3			78.0-120		05/13/2020 17:16	WG1475231

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	26.4		0.287	0.678	1	05/12/2020 13:18	WG1474309
Ethane	U		0.296	1.29	1	05/12/2020 13:18	WG1474309
Ethene	U		0.422	1.27	1	05/12/2020 13:18	WG1474309

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>	11.3	25.0	1	05/08/2020 22:23	WG1472992
Acrylonitrile	U		0.671	5.00	1	05/08/2020 22:23	WG1472992
Benzene	U		0.0941	0.500	1	05/08/2020 22:23	WG1472992
Bromobenzene	U		0.118	0.500	1	05/08/2020 22:23	WG1472992
Bromodichloromethane	U		0.136	0.500	1	05/08/2020 22:23	WG1472992
Bromochloromethane	U		0.128	0.500	1	05/08/2020 22:23	WG1472992
Bromoform	U		0.129	0.500	1	05/08/2020 22:23	WG1472992
Bromomethane	U		0.605	2.50	1	05/08/2020 22:23	WG1472992
n-Butylbenzene	U		0.157	0.500	1	05/08/2020 22:23	WG1472992
sec-Butylbenzene	U		0.125	0.500	1	05/08/2020 22:23	WG1472992
tert-Butylbenzene	U		0.127	0.500	1	05/08/2020 22:23	WG1472992
Carbon disulfide	U		0.0962	0.500	1	05/08/2020 22:23	WG1472992
Carbon tetrachloride	U		0.128	0.500	1	05/08/2020 22:23	WG1472992

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 05/06/20 10:00

L1215869

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.117	0.500	1	05/08/2020 22:23	WG1472992
Chlorodibromomethane	U		0.140	0.500	1	05/08/2020 22:23	WG1472992
Chloroethane	U		0.192	2.50	1	05/08/2020 22:23	WG1472992
Chloroform	U		0.111	0.500	1	05/08/2020 22:23	WG1472992
Chloromethane	U		0.960	1.25	1	05/08/2020 22:23	WG1472992
2-Chlorotoluene	U		0.106	0.500	1	05/08/2020 22:23	WG1472992
4-Chlorotoluene	U		0.114	0.500	1	05/08/2020 22:23	WG1472992
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/08/2020 22:23	WG1472992
1,2-Dibromoethane	U		0.126	0.500	1	05/08/2020 22:23	WG1472992
Dibromomethane	U		0.122	0.500	1	05/08/2020 22:23	WG1472992
1,2-Dichlorobenzene	U		0.107	0.500	1	05/08/2020 22:23	WG1472992
1,3-Dichlorobenzene	U		0.299	0.500	1	05/08/2020 22:23	WG1472992
1,4-Dichlorobenzene	U		0.120	0.500	1	05/08/2020 22:23	WG1472992
Dichlorodifluoromethane	U		0.374	2.50	1	05/08/2020 22:23	WG1472992
1,1-Dichloroethane	U		0.100	0.500	1	05/08/2020 22:23	WG1472992
1,2-Dichloroethane	U		0.0819	0.500	1	05/08/2020 22:23	WG1472992
1,1-Dichloroethene	U		0.188	0.500	1	05/08/2020 22:23	WG1472992
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/08/2020 22:23	WG1472992
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/08/2020 22:23	WG1472992
1,2-Dichloropropane	U		0.149	0.500	1	05/08/2020 22:23	WG1472992
1,1-Dichloropropene	U		0.142	0.500	1	05/08/2020 22:23	WG1472992
1,3-Dichloropropane	U		0.109	1.00	1	05/08/2020 22:23	WG1472992
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/08/2020 22:23	WG1472992
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/08/2020 22:23	WG1472992
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/08/2020 22:23	WG1472992
2,2-Dichloropropane	U		0.161	0.500	1	05/08/2020 22:23	WG1472992
Di-isopropyl ether	U		0.105	0.500	1	05/08/2020 22:23	WG1472992
Ethylbenzene	U		0.137	0.500	1	05/08/2020 22:23	WG1472992
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/08/2020 22:23	WG1472992
2-Hexanone	U		0.787	5.00	1	05/08/2020 22:23	WG1472992
n-Hexane	U		0.749	5.00	1	05/08/2020 22:23	WG1472992
Iodomethane	U		0.554	5.00	1	05/08/2020 22:23	WG1472992
Isopropylbenzene	U		0.105	0.500	1	05/08/2020 22:23	WG1472992
p-Isopropyltoluene	U		0.120	0.500	1	05/08/2020 22:23	WG1472992
2-Butanone (MEK)	U		1.19	5.00	1	05/08/2020 22:23	WG1472992
Methylene Chloride	U		0.430	2.50	1	05/08/2020 22:23	WG1472992
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/08/2020 22:23	WG1472992
Methyl tert-butyl ether	U		0.101	0.500	1	05/08/2020 22:23	WG1472992
Naphthalene	U		0.174	2.50	1	05/08/2020 22:23	WG1472992
n-Propylbenzene	U		0.0993	0.500	1	05/08/2020 22:23	WG1472992
Styrene	U		0.118	0.500	1	05/08/2020 22:23	WG1472992
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/08/2020 22:23	WG1472992
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/08/2020 22:23	WG1472992
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/08/2020 22:23	WG1472992
Tetrachloroethene	U		0.300	0.500	1	05/08/2020 22:23	WG1472992
Toluene	U		0.278	0.500	1	05/08/2020 22:23	WG1472992
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/08/2020 22:23	WG1472992
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/08/2020 22:23	WG1472992
1,1,1-Trichloroethane	U		0.149	0.500	1	05/08/2020 22:23	WG1472992
1,1,2-Trichloroethane	U		0.158	0.500	1	05/08/2020 22:23	WG1472992
Trichloroethene	U		0.190	0.500	1	05/08/2020 22:23	WG1472992
Trichlorofluoromethane	U		0.160	2.50	1	05/08/2020 22:23	WG1472992
1,2,3-Trichloropropane	U		0.237	2.50	1	05/08/2020 22:23	WG1472992
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/08/2020 22:23	WG1472992
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/08/2020 22:23	WG1472992
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/08/2020 22:23	WG1472992

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	
Vinyl acetate	U		0.692	5.00	1	05/08/2020 22:23	WG1472992
Vinyl chloride	U		0.234	0.500	1	05/08/2020 22:23	WG1472992
Xylenes, Total	U		0.174	1.50	1	05/08/2020 22:23	WG1472992
<i>(S) Toluene-d8</i>	108			80.0-120		05/08/2020 22:23	WG1472992
<i>(S) 4-Bromofluorobenzene</i>	102			77.0-126		05/08/2020 22:23	WG1472992
<i>(S) 1,2-Dichloroethane-d4</i>	115			70.0-130		05/08/2020 22:23	WG1472992

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	272000		8450	20000	1	05/09/2020 20:43	WG1472978

Sample Narrative:

L1215869-04 WG1472978: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	23900		379	1000	1	05/07/2020 16:10	WG1471933
Nitrate	U		48.0	100	1	05/07/2020 16:10	WG1471933
Sulfate	15300		594	5000	1	05/07/2020 16:10	WG1471933

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)	2520		102	1000	1	05/08/2020 20:58	WG1472819

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	9990		48.9	100	1	05/11/2020 22:26	WG1472549
Manganese	904		1.32	5.00	1	05/11/2020 22:26	WG1472549

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	32.3	<u>B</u>	31.6	100	1	05/13/2020 17:37	WG1475231
(S) a,a,a-Trifluorotoluene(FID)	96.7			78.0-120		05/13/2020 17:37	WG1475231

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	05/12/2020 13:21	WG1474309
Ethane	U		0.296	1.29	1	05/12/2020 13:21	WG1474309
Ethene	U		0.422	1.27	1	05/12/2020 13:21	WG1474309

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>	11.3	25.0	1	05/08/2020 22:42	WG1472992
Acrylonitrile	U		0.671	5.00	1	05/08/2020 22:42	WG1472992
Benzene	U		0.0941	0.500	1	05/08/2020 22:42	WG1472992
Bromobenzene	U		0.118	0.500	1	05/08/2020 22:42	WG1472992
Bromodichloromethane	U		0.136	0.500	1	05/08/2020 22:42	WG1472992
Bromochloromethane	U		0.128	0.500	1	05/08/2020 22:42	WG1472992
Bromoform	U		0.129	0.500	1	05/08/2020 22:42	WG1472992
Bromomethane	U		0.605	2.50	1	05/08/2020 22:42	WG1472992
n-Butylbenzene	U		0.157	0.500	1	05/08/2020 22:42	WG1472992
sec-Butylbenzene	U		0.125	0.500	1	05/08/2020 22:42	WG1472992
tert-Butylbenzene	U		0.127	0.500	1	05/08/2020 22:42	WG1472992
Carbon disulfide	U		0.0962	0.500	1	05/08/2020 22:42	WG1472992
Carbon tetrachloride	U		0.128	0.500	1	05/08/2020 22:42	WG1472992

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 05/06/20 11:35

L1215869

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.117	0.500	1	05/08/2020 22:42	WG1472992
Chlorodibromomethane	U		0.140	0.500	1	05/08/2020 22:42	WG1472992
Chloroethane	U		0.192	2.50	1	05/08/2020 22:42	WG1472992
Chloroform	U		0.111	0.500	1	05/08/2020 22:42	WG1472992
Chloromethane	U		0.960	1.25	1	05/08/2020 22:42	WG1472992
2-Chlorotoluene	U		0.106	0.500	1	05/08/2020 22:42	WG1472992
4-Chlorotoluene	U		0.114	0.500	1	05/08/2020 22:42	WG1472992
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/08/2020 22:42	WG1472992
1,2-Dibromoethane	U		0.126	0.500	1	05/08/2020 22:42	WG1472992
Dibromomethane	U		0.122	0.500	1	05/08/2020 22:42	WG1472992
1,2-Dichlorobenzene	U		0.107	0.500	1	05/08/2020 22:42	WG1472992
1,3-Dichlorobenzene	U		0.299	0.500	1	05/08/2020 22:42	WG1472992
1,4-Dichlorobenzene	U		0.120	0.500	1	05/08/2020 22:42	WG1472992
Dichlorodifluoromethane	U		0.374	2.50	1	05/08/2020 22:42	WG1472992
1,1-Dichloroethane	U		0.100	0.500	1	05/08/2020 22:42	WG1472992
1,2-Dichloroethane	U		0.0819	0.500	1	05/08/2020 22:42	WG1472992
1,1-Dichloroethene	U		0.188	0.500	1	05/08/2020 22:42	WG1472992
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/08/2020 22:42	WG1472992
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/08/2020 22:42	WG1472992
1,2-Dichloropropane	U		0.149	0.500	1	05/08/2020 22:42	WG1472992
1,1-Dichloropropene	U		0.142	0.500	1	05/08/2020 22:42	WG1472992
1,3-Dichloropropane	U		0.109	1.00	1	05/08/2020 22:42	WG1472992
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/08/2020 22:42	WG1472992
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/08/2020 22:42	WG1472992
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/08/2020 22:42	WG1472992
2,2-Dichloropropane	U		0.161	0.500	1	05/08/2020 22:42	WG1472992
Di-isopropyl ether	U		0.105	0.500	1	05/08/2020 22:42	WG1472992
Ethylbenzene	U		0.137	0.500	1	05/08/2020 22:42	WG1472992
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/08/2020 22:42	WG1472992
2-Hexanone	U		0.787	5.00	1	05/08/2020 22:42	WG1472992
n-Hexane	U		0.749	5.00	1	05/08/2020 22:42	WG1472992
Iodomethane	U		0.554	5.00	1	05/08/2020 22:42	WG1472992
Isopropylbenzene	U		0.105	0.500	1	05/08/2020 22:42	WG1472992
p-Isopropyltoluene	U		0.120	0.500	1	05/08/2020 22:42	WG1472992
2-Butanone (MEK)	U		1.19	5.00	1	05/08/2020 22:42	WG1472992
Methylene Chloride	U		0.430	2.50	1	05/08/2020 22:42	WG1472992
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/08/2020 22:42	WG1472992
Methyl tert-butyl ether	U		0.101	0.500	1	05/08/2020 22:42	WG1472992
Naphthalene	U		0.174	2.50	1	05/08/2020 22:42	WG1472992
n-Propylbenzene	U		0.0993	0.500	1	05/08/2020 22:42	WG1472992
Styrene	U		0.118	0.500	1	05/08/2020 22:42	WG1472992
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/08/2020 22:42	WG1472992
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/08/2020 22:42	WG1472992
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/08/2020 22:42	WG1472992
Tetrachloroethene	U		0.300	0.500	1	05/08/2020 22:42	WG1472992
Toluene	U		0.278	0.500	1	05/08/2020 22:42	WG1472992
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/08/2020 22:42	WG1472992
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/08/2020 22:42	WG1472992
1,1,1-Trichloroethane	U		0.149	0.500	1	05/08/2020 22:42	WG1472992
1,1,2-Trichloroethane	U		0.158	0.500	1	05/08/2020 22:42	WG1472992
Trichloroethene	U		0.190	0.500	1	05/08/2020 22:42	WG1472992
Trichlorofluoromethane	U		0.160	2.50	1	05/08/2020 22:42	WG1472992
1,2,3-Trichloropropane	U		0.237	2.50	1	05/08/2020 22:42	WG1472992
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/08/2020 22:42	WG1472992
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/08/2020 22:42	WG1472992
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/08/2020 22:42	WG1472992

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
Vinyl acetate	U		0.692	5.00	1	05/08/2020 22:42	WG1472992
Vinyl chloride	U		0.234	0.500	1	05/08/2020 22:42	WG1472992
Xylenes, Total	U		0.174	1.50	1	05/08/2020 22:42	WG1472992
<i>(S) Toluene-d8</i>	111			80.0-120		05/08/2020 22:42	WG1472992
<i>(S) 4-Bromofluorobenzene</i>	102			77.0-126		05/08/2020 22:42	WG1472992
<i>(S) 1,2-Dichloroethane-d4</i>	114			70.0-130		05/08/2020 22:42	WG1472992

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	313000		8450	20000	1	05/09/2020 20:50	WG1472978

Sample Narrative:

L1215869-05 WG1472978: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	35600		379	1000	1	05/07/2020 17:35	WG1471933
Nitrate	U		48.0	100	1	05/07/2020 17:35	WG1471933
Sulfate	92700		594	5000	1	05/07/2020 17:35	WG1471933

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)	2220		102	1000	1	05/08/2020 21:15	WG1472819

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	77900		48.9	100	1	05/11/2020 22:30	WG1472549
Manganese	1040		1.32	5.00	1	05/11/2020 22:30	WG1472549

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	160		0.287	0.678	1	05/12/2020 13:25	WG1474309
Ethane	13.6		0.296	1.29	1	05/12/2020 13:25	WG1474309
Ethene	U		0.422	1.27	1	05/12/2020 13:25	WG1474309

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		11.3	25.0	1	05/10/2020 15:32	WG1473379
Acrylonitrile	U		0.671	5.00	1	05/10/2020 15:32	WG1473379
Benzene	U		0.0941	0.500	1	05/10/2020 15:32	WG1473379
Bromobenzene	U		0.118	0.500	1	05/10/2020 15:32	WG1473379
Bromodichloromethane	U		0.136	0.500	1	05/10/2020 15:32	WG1473379
Bromochloromethane	U		0.128	0.500	1	05/10/2020 15:32	WG1473379
Bromoform	U		0.129	0.500	1	05/10/2020 15:32	WG1473379
Bromomethane	U		0.605	2.50	1	05/10/2020 15:32	WG1473379
n-Butylbenzene	U		0.157	0.500	1	05/10/2020 15:32	WG1473379
sec-Butylbenzene	U		0.125	0.500	1	05/10/2020 15:32	WG1473379
tert-Butylbenzene	U		0.127	0.500	1	05/10/2020 15:32	WG1473379
Carbon disulfide	U		0.0962	0.500	1	05/10/2020 15:32	WG1473379
Carbon tetrachloride	U		0.128	0.500	1	05/10/2020 15:32	WG1473379
Chlorobenzene	U		0.117	0.500	1	05/10/2020 15:32	WG1473379
Chlorodibromomethane	U		0.140	0.500	1	05/10/2020 15:32	WG1473379
Chloroethane	U		0.192	2.50	1	05/10/2020 15:32	WG1473379
Chloroform	U		0.111	0.500	1	05/10/2020 15:32	WG1473379
Chloromethane	U		0.960	1.25	1	05/10/2020 15:32	WG1473379
2-Chlorotoluene	U		0.106	0.500	1	05/10/2020 15:32	WG1473379
4-Chlorotoluene	U		0.114	0.500	1	05/10/2020 15:32	WG1473379

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	
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	05/10/2020 15:32	WG1473379
1,2-Dibromoethane	U		0.126	0.500	1	05/10/2020 15:32	WG1473379
Dibromomethane	U		0.122	0.500	1	05/10/2020 15:32	WG1473379
1,2-Dichlorobenzene	U		0.107	0.500	1	05/10/2020 15:32	WG1473379
1,3-Dichlorobenzene	U		0.299	0.500	1	05/10/2020 15:32	WG1473379
1,4-Dichlorobenzene	U		0.120	0.500	1	05/10/2020 15:32	WG1473379
Dichlorodifluoromethane	U		0.374	2.50	1	05/10/2020 15:32	WG1473379
1,1-Dichloroethane	U		0.100	0.500	1	05/10/2020 15:32	WG1473379
1,2-Dichloroethane	U		0.0819	0.500	1	05/10/2020 15:32	WG1473379
1,1-Dichloroethene	0.589		0.188	0.500	1	05/10/2020 15:32	WG1473379
cis-1,2-Dichloroethene	157		0.126	0.500	1	05/10/2020 15:32	WG1473379
trans-1,2-Dichloroethene	0.433	<u>J</u>	0.149	0.500	1	05/10/2020 15:32	WG1473379
1,2-Dichloropropane	U		0.149	0.500	1	05/10/2020 15:32	WG1473379
1,1-Dichloropropene	U		0.142	0.500	1	05/10/2020 15:32	WG1473379
1,3-Dichloropropane	U		0.109	1.00	1	05/10/2020 15:32	WG1473379
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/10/2020 15:32	WG1473379
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/10/2020 15:32	WG1473379
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	05/10/2020 15:32	WG1473379
2,2-Dichloropropane	U		0.161	0.500	1	05/10/2020 15:32	WG1473379
Di-isopropyl ether	U		0.105	0.500	1	05/10/2020 15:32	WG1473379
Ethylbenzene	U		0.137	0.500	1	05/10/2020 15:32	WG1473379
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/10/2020 15:32	WG1473379
2-Hexanone	U		0.787	5.00	1	05/10/2020 15:32	WG1473379
n-Hexane	U		0.749	5.00	1	05/10/2020 15:32	WG1473379
Iodomethane	U		0.554	5.00	1	05/10/2020 15:32	WG1473379
Isopropylbenzene	U		0.105	0.500	1	05/10/2020 15:32	WG1473379
p-Isopropyltoluene	U		0.120	0.500	1	05/10/2020 15:32	WG1473379
2-Butanone (MEK)	U		1.19	5.00	1	05/10/2020 15:32	WG1473379
Methylene Chloride	U		0.430	2.50	1	05/10/2020 15:32	WG1473379
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/10/2020 15:32	WG1473379
Methyl tert-butyl ether	U		0.101	0.500	1	05/10/2020 15:32	WG1473379
Naphthalene	U	<u>JO</u>	0.174	2.50	1	05/10/2020 15:32	WG1473379
n-Propylbenzene	U		0.0993	0.500	1	05/10/2020 15:32	WG1473379
Styrene	U		0.118	0.500	1	05/10/2020 15:32	WG1473379
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/10/2020 15:32	WG1473379
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/10/2020 15:32	WG1473379
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/10/2020 15:32	WG1473379
Tetrachloroethene	34.6		0.300	0.500	1	05/10/2020 15:32	WG1473379
Toluene	U		0.278	0.500	1	05/10/2020 15:32	WG1473379
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/10/2020 15:32	WG1473379
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/10/2020 15:32	WG1473379
1,1,1-Trichloroethane	U		0.149	0.500	1	05/10/2020 15:32	WG1473379
1,1,2-Trichloroethane	U		0.158	0.500	1	05/10/2020 15:32	WG1473379
Trichloroethene	61.9		0.190	0.500	1	05/10/2020 15:32	WG1473379
Trichlorofluoromethane	U		0.160	2.50	1	05/10/2020 15:32	WG1473379
1,2,3-Trichloropropane	U		0.237	2.50	1	05/10/2020 15:32	WG1473379
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/10/2020 15:32	WG1473379
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/10/2020 15:32	WG1473379
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/10/2020 15:32	WG1473379
Vinyl acetate	U		0.692	5.00	1	05/10/2020 15:32	WG1473379
Vinyl chloride	14.2		0.234	0.500	1	05/10/2020 15:32	WG1473379
Xylenes, Total	U		0.174	1.50	1	05/10/2020 15:32	WG1473379
(S) Toluene-d8	107			80.0-120		05/10/2020 15:32	WG1473379
(S) 4-Bromofluorobenzene	104			77.0-126		05/10/2020 15:32	WG1473379
(S) 1,2-Dichloroethane-d4	116			70.0-130		05/10/2020 15:32	WG1473379

- 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 date / time	Batch
Alkalinity	U		8450	20000	1	05/11/2020 20:09	WG1472980

Sample Narrative:

L1215869-06 WG1472980: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	U		379	1000	1	05/07/2020 17:52	WG1471933
Nitrate	52.5	J	48.0	100	1	05/07/2020 17:52	WG1471933
Sulfate	U		594	5000	1	05/07/2020 17:52	WG1471933

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	257	B J	102	1000	1	05/08/2020 22:47	WG1472819

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	77.1	J	48.9	100	1	05/11/2020 22:33	WG1472549
Manganese	2.57	J	1.32	5.00	1	05/11/2020 22:33	WG1472549

Volatile Organic Compounds (GC) by Method NWTPHGX

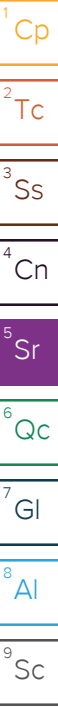
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	44.3	B J	31.6	100	1	05/13/2020 18:29	WG1475231
(S) a,a,a-Trifluorotoluene(FID)	96.8			78.0-120		05/13/2020 18:29	WG1475231

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	05/12/2020 13:29	WG1474309
Ethane	U		0.296	1.29	1	05/12/2020 13:29	WG1474309
Ethene	U		0.422	1.27	1	05/12/2020 13:29	WG1474309

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		11.3	25.0	1	05/08/2020 17:46	WG1472732
Acrylonitrile	U		0.671	5.00	1	05/08/2020 17:46	WG1472732
Benzene	U		0.0941	0.500	1	05/08/2020 17:46	WG1472732
Bromobenzene	U		0.118	0.500	1	05/08/2020 17:46	WG1472732
Bromodichloromethane	U		0.136	0.500	1	05/08/2020 17:46	WG1472732
Bromochloromethane	U		0.128	0.500	1	05/08/2020 17:46	WG1472732
Bromoform	U		0.129	0.500	1	05/08/2020 17:46	WG1472732
Bromomethane	U		0.605	2.50	1	05/08/2020 17:46	WG1472732
n-Butylbenzene	U		0.157	0.500	1	05/08/2020 17:46	WG1472732
sec-Butylbenzene	U		0.125	0.500	1	05/08/2020 17:46	WG1472732
tert-Butylbenzene	U		0.127	0.500	1	05/08/2020 17:46	WG1472732
Carbon disulfide	U		0.0962	0.500	1	05/08/2020 17:46	WG1472732
Carbon tetrachloride	U		0.128	0.500	1	05/08/2020 17:46	WG1472732





Collected date/time: 05/06/20 13:00

L1215869

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.117	0.500	1	05/08/2020 17:46	WG1472732
Chlorodibromomethane	U		0.140	0.500	1	05/08/2020 17:46	WG1472732
Chloroethane	U		0.192	2.50	1	05/08/2020 17:46	WG1472732
Chloroform	U		0.111	0.500	1	05/08/2020 17:46	WG1472732
Chloromethane	U		0.960	1.25	1	05/08/2020 17:46	WG1472732
2-Chlorotoluene	U		0.106	0.500	1	05/08/2020 17:46	WG1472732
4-Chlorotoluene	U		0.114	0.500	1	05/08/2020 17:46	WG1472732
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.276	2.50	1	05/08/2020 17:46	WG1472732
1,2-Dibromoethane	U		0.126	0.500	1	05/08/2020 17:46	WG1472732
Dibromomethane	U		0.122	0.500	1	05/08/2020 17:46	WG1472732
1,2-Dichlorobenzene	U		0.107	0.500	1	05/08/2020 17:46	WG1472732
1,3-Dichlorobenzene	U		0.299	0.500	1	05/08/2020 17:46	WG1472732
1,4-Dichlorobenzene	U		0.120	0.500	1	05/08/2020 17:46	WG1472732
Dichlorodifluoromethane	U		0.374	2.50	1	05/08/2020 17:46	WG1472732
1,1-Dichloroethane	U		0.100	0.500	1	05/08/2020 17:46	WG1472732
1,2-Dichloroethane	U		0.0819	0.500	1	05/08/2020 17:46	WG1472732
1,1-Dichloroethene	U		0.188	0.500	1	05/08/2020 17:46	WG1472732
cis-1,2-Dichloroethene	U		0.126	0.500	1	05/08/2020 17:46	WG1472732
trans-1,2-Dichloroethene	U		0.149	0.500	1	05/08/2020 17:46	WG1472732
1,2-Dichloropropane	U		0.149	0.500	1	05/08/2020 17:46	WG1472732
1,1-Dichloropropene	U		0.142	0.500	1	05/08/2020 17:46	WG1472732
1,3-Dichloropropane	U		0.109	1.00	1	05/08/2020 17:46	WG1472732
cis-1,3-Dichloropropene	U		0.111	0.500	1	05/08/2020 17:46	WG1472732
trans-1,3-Dichloropropene	U		0.118	0.500	1	05/08/2020 17:46	WG1472732
trans-1,4-Dichloro-2-butene	U	<u>JO J3</u>	0.467	5.00	1	05/08/2020 17:46	WG1472732
2,2-Dichloropropane	U		0.161	0.500	1	05/08/2020 17:46	WG1472732
Di-isopropyl ether	U		0.105	0.500	1	05/08/2020 17:46	WG1472732
Ethylbenzene	U		0.137	0.500	1	05/08/2020 17:46	WG1472732
Hexachloro-1,3-butadiene	U		0.337	1.00	1	05/08/2020 17:46	WG1472732
2-Hexanone	U		0.787	5.00	1	05/08/2020 17:46	WG1472732
n-Hexane	U		0.749	5.00	1	05/08/2020 17:46	WG1472732
Iodomethane	U		0.554	5.00	1	05/08/2020 17:46	WG1472732
Isopropylbenzene	U		0.105	0.500	1	05/08/2020 17:46	WG1472732
p-Isopropyltoluene	U		0.120	0.500	1	05/08/2020 17:46	WG1472732
2-Butanone (MEK)	U		1.19	5.00	1	05/08/2020 17:46	WG1472732
Methylene Chloride	U		0.430	2.50	1	05/08/2020 17:46	WG1472732
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	05/08/2020 17:46	WG1472732
Methyl tert-butyl ether	U		0.101	0.500	1	05/08/2020 17:46	WG1472732
Naphthalene	U	<u>JO</u>	0.174	2.50	1	05/08/2020 17:46	WG1472732
n-Propylbenzene	U		0.0993	0.500	1	05/08/2020 17:46	WG1472732
Styrene	U		0.118	0.500	1	05/08/2020 17:46	WG1472732
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	05/08/2020 17:46	WG1472732
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	05/08/2020 17:46	WG1472732
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	05/08/2020 17:46	WG1472732
Tetrachloroethene	U		0.300	0.500	1	05/08/2020 17:46	WG1472732
Toluene	U		0.278	0.500	1	05/08/2020 17:46	WG1472732
1,2,3-Trichlorobenzene	U		0.164	0.500	1	05/08/2020 17:46	WG1472732
1,2,4-Trichlorobenzene	U		0.481	1.00	1	05/08/2020 17:46	WG1472732
1,1,1-Trichloroethane	U		0.149	0.500	1	05/08/2020 17:46	WG1472732
1,1,2-Trichloroethane	U		0.158	0.500	1	05/08/2020 17:46	WG1472732
Trichloroethene	U		0.190	0.500	1	05/08/2020 17:46	WG1472732
Trichlorofluoromethane	U		0.160	2.50	1	05/08/2020 17:46	WG1472732
1,2,3-Trichloropropane	U		0.237	2.50	1	05/08/2020 17:46	WG1472732
1,2,4-Trimethylbenzene	U		0.322	0.500	1	05/08/2020 17:46	WG1472732
1,2,3-Trimethylbenzene	U		0.104	0.500	1	05/08/2020 17:46	WG1472732
1,3,5-Trimethylbenzene	U		0.104	0.500	1	05/08/2020 17:46	WG1472732

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 05/06/20 13:00

L1215869

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.692	5.00	1	05/08/2020 17:46	WG1472732
Vinyl chloride	U		0.234	0.500	1	05/08/2020 17:46	WG1472732
Xylenes, Total	U		0.174	1.50	1	05/08/2020 17:46	WG1472732
(S) Toluene-d8	94.2			80.0-120		05/08/2020 17:46	WG1472732
(S) 4-Bromofluorobenzene	92.2			77.0-126		05/08/2020 17:46	WG1472732
(S) 1,2-Dichloroethane-d4	92.1			70.0-130		05/08/2020 17:46	WG1472732

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3526441-1 05/09/20 17:58

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1215840-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1215840-01 05/09/20 18:55 • (DUP) R3526441-2 05/09/20 19:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	405000	402000	1	0.610		20

Sample Narrative:

OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

L1215869-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1215869-05 05/09/20 20:50 • (DUP) R3526441-4 05/09/20 20:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	313000	311000	1	0.542		20

Sample Narrative:

OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3526441-3 05/09/20 19:09

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	101000	101	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3526986-1 05/11/20 15:43

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1215973-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1215973-02 05/11/20 16:06 • (DUP) R3526986-2 05/11/20 16:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	54000	55200	1	2.33		20

Sample Narrative:

OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

L1215994-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1215994-09 05/11/20 19:54 • (DUP) R3526986-4 05/11/20 20:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	264000	266000	1	0.439		20

Sample Narrative:

OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3526986-3 05/11/20 17:32

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	98800	98.8	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3525868-1 05/07/20 09:30

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Chloride	U		379	1000
Nitrate	U		48.0	100
Sulfate	U		594	5000

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1215869-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1215869-03 05/07/20 15:36 • (DUP) R3525868-3 05/07/20 15:53

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	23700	23800	1	0.276		15
Nitrate	U	U	1	0.000		15
Sulfate	15200	15300	1	0.294		15

L1215920-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1215920-01 05/07/20 20:07 • (DUP) R3525868-6 05/07/20 20:58

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	41900	41900	1	0.00549		15
Nitrate	149	162	1	7.97		15
Sulfate	47800	48000	1	0.330		15

Laboratory Control Sample (LCS)

(LCS) R3525868-2 05/07/20 09:46

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Chloride	40000	39200	98.1	80.0-120	
Nitrate	8000	7910	98.9	80.0-120	
Sulfate	40000	39300	98.4	80.0-120	



L1215869-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1215869-04 05/07/20 16:10 • (MS) R3525868-4 05/07/20 16:27 • (MSD) R3525868-5 05/07/20 16:44

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 %
Chloride	50000	23900	72500	72900	97.3	98.0	1	80.0-120			0.459	15
Nitrate	5000	U	4770	4830	95.5	96.5	1	80.0-120			1.07	15
Sulfate	50000	15300	64900	65100	99.3	99.8	1	80.0-120			0.352	15

L1215920-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1215920-02 05/07/20 21:14 • (MS) R3525868-7 05/07/20 21:31

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	31200	80300	98.1	1	80.0-120	
Nitrate	5000	U	4790	95.9	1	80.0-120	
Sulfate	50000	44300	93300	97.9	1	80.0-120	

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



Method Blank (MB)

(MB) R3526146-1 05/08/20 15:54

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	179	↓	102	1000

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

L1215779-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1215779-08 05/08/20 17:59 • (DUP) R3526146-3 05/08/20 18:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	2560	2560	1	0.273		20

⁶ Qc

Laboratory Control Sample (LCS)

(LCS) R3526146-2 05/08/20 16:26

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	79200	106	85.0-115	

⁷ Gl

⁸ Al

L1215779-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1215779-10 05/08/20 19:43 • (MS) R3526146-4 05/08/20 20:00 • (MSD) R3526146-5 05/08/20 20:17

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	6340	64100	63500	115	114	1	80.0-120			0.862	20

⁹ Sc



Method Blank (MB)

(MB) R3526779-1 05/11/20 20:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		48.9	100
Manganese	U		1.32	5.00

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3526779-2 05/11/20 20:28

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron	5000	4660	93.1	80.0-120	
Manganese	50.0	49.1	98.3	80.0-120	

5 Sr

6 Qc

L1215803-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1215803-03 05/11/20 20:31 • (MS) R3526779-4 05/11/20 20:38 • (MSD) R3526779-5 05/11/20 20:41

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	4820	4810	96.3	96.1	1	75.0-125			0.193	20
Manganese	50.0	36.3	83.9	83.8	95.2	95.1	1	75.0-125			0.0730	20

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3527604-2 05/13/20 10:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	44.5	↓	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	98.4			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3527604-1 05/13/20 09:34

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	4960	90.2	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			105	78.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3527061-2 05/12/20 12:03

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1215869-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1215869-01 05/12/20 13:13 • (DUP) R3527061-3 05/12/20 13:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	21.8	21.5	1	1.39		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1216400-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1216400-02 05/12/20 14:07 • (DUP) R3527061-4 05/12/20 14:42

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) R3527061-1 05/12/20 09:24 • (LCSD) R3527061-5 05/12/20 14:48

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	59.4	58.7	87.6	86.6	85.0-115			1.19	20
Ethane	129	118	119	91.5	92.2	85.0-115			0.844	20
Ethene	127	112	113	88.2	89.0	85.0-115			0.889	20



Method Blank (MB)

(MB) R3526207-3 05/08/20 16:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromochloromethane	U		0.128	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
trans-1,4-Dichloro-2-butene	U		0.467	5.00
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3526207-3 05/08/20 16:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	0.500
Hexachloro-1,3-butadiene	U		0.337	1.00
2-Hexanone	U		0.787	5.00
n-Hexane	U		0.749	5.00
Iodomethane	U		0.554	5.00
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	0.209	U	0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	0.500
1,2,4-Trimethylbenzene	U		0.322	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl acetate	U		0.692	5.00
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	96.9			80.0-120
(S) 4-Bromofluorobenzene	90.3			77.0-126
(S) 1,2-Dichloroethane-d4	89.1			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) R3526207-1 05/08/20 15:21 • (LCSD) R3526207-2 05/08/20 15:41

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	20.8	21.8	83.2	87.2	19.0-160			4.69	27
Acrylonitrile	25.0	23.9	24.2	95.6	96.8	55.0-149			1.25	20
Benzene	5.00	4.77	4.56	95.4	91.2	70.0-123			4.50	20
Bromobenzene	5.00	4.69	4.53	93.8	90.6	73.0-121			3.47	20
Bromodichloromethane	5.00	4.53	4.56	90.6	91.2	75.0-120			0.660	20
Bromochloromethane	5.00	5.02	4.95	100	99.0	76.0-122			1.40	20
Bromoform	5.00	4.52	4.27	90.4	85.4	68.0-132			5.69	20
Bromomethane	5.00	4.48	4.33	89.6	86.6	10.0-160			3.41	25
n-Butylbenzene	5.00	5.10	4.87	102	97.4	73.0-125			4.61	20
sec-Butylbenzene	5.00	5.13	5.04	103	101	75.0-125			1.77	20
tert-Butylbenzene	5.00	5.09	4.68	102	93.6	76.0-124			8.39	20
Carbon disulfide	5.00	4.81	4.64	96.2	92.8	61.0-128			3.60	20
Carbon tetrachloride	5.00	4.49	4.44	89.8	88.8	68.0-126			1.12	20
Chlorobenzene	5.00	4.72	4.55	94.4	91.0	80.0-121			3.67	20
Chlorodibromomethane	5.00	4.74	4.61	94.8	92.2	77.0-125			2.78	20
Chloroethane	5.00	4.69	4.54	93.8	90.8	47.0-150			3.25	20
Chloroform	5.00	4.52	4.18	90.4	83.6	73.0-120			7.82	20
Chloromethane	5.00	5.16	4.94	103	98.8	41.0-142			4.36	20
2-Chlorotoluene	5.00	4.59	4.34	91.8	86.8	76.0-123			5.60	20
4-Chlorotoluene	5.00	4.90	4.41	98.0	88.2	75.0-122			10.5	20
1,2-Dibromo-3-Chloropropane	5.00	3.84	3.88	76.8	77.6	58.0-134			1.04	20
1,2-Dibromoethane	5.00	4.89	4.97	97.8	99.4	80.0-122			1.62	20
Dibromomethane	5.00	4.83	4.65	96.6	93.0	80.0-120			3.80	20
1,2-Dichlorobenzene	5.00	4.98	4.46	99.6	89.2	79.0-121			11.0	20
1,3-Dichlorobenzene	5.00	5.09	4.60	102	92.0	79.0-120			10.1	20
1,4-Dichlorobenzene	5.00	4.45	4.38	89.0	87.6	79.0-120			1.59	20
trans-1,4-Dichloro-2-butene	5.00	2.81	1.96	56.2	39.2	33.0-144		<u>J3</u>	35.6	20
Dichlorodifluoromethane	5.00	5.95	5.80	119	116	51.0-149			2.55	20
1,1-Dichloroethane	5.00	4.73	4.61	94.6	92.2	70.0-126			2.57	20
1,2-Dichloroethane	5.00	4.60	4.39	92.0	87.8	70.0-128			4.67	20
1,1-Dichloroethene	5.00	4.78	4.60	95.6	92.0	71.0-124			3.84	20
cis-1,2-Dichloroethene	5.00	4.54	4.36	90.8	87.2	73.0-120			4.04	20
trans-1,2-Dichloroethene	5.00	4.80	4.66	96.0	93.2	73.0-120			2.96	20
1,2-Dichloropropane	5.00	4.41	4.67	88.2	93.4	77.0-125			5.73	20
1,1-Dichloropropene	5.00	4.79	4.81	95.8	96.2	74.0-126			0.417	20
1,3-Dichloropropane	5.00	4.88	4.81	97.6	96.2	80.0-120			1.44	20
cis-1,3-Dichloropropene	5.00	4.74	4.68	94.8	93.6	80.0-123			1.27	20
trans-1,3-Dichloropropene	5.00	4.75	4.69	95.0	93.8	78.0-124			1.27	20
2,2-Dichloropropane	5.00	5.14	4.80	103	96.0	58.0-130			6.84	20
Di-isopropyl ether	5.00	4.90	4.73	98.0	94.6	58.0-138			3.53	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) R3526207-1 05/08/20 15:21 • (LCSD) R3526207-2 05/08/20 15:41

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 %
Ethylbenzene	5.00	4.74	4.65	94.8	93.0	79.0-123			1.92	20
Hexachloro-1,3-butadiene	5.00	4.85	4.89	97.0	97.8	54.0-138			0.821	20
2-Hexanone	25.0	22.3	21.9	89.2	87.6	67.0-149			1.81	20
n-Hexane	5.00	5.09	4.82	102	96.4	57.0-133			5.45	20
Iodomethane	25.0	23.2	22.3	92.8	89.2	33.0-147			3.96	26
Isopropylbenzene	5.00	5.03	4.87	101	97.4	76.0-127			3.23	20
p-Isopropyltoluene	5.00	5.10	4.68	102	93.6	76.0-125			8.59	20
2-Butanone (MEK)	25.0	22.4	21.0	89.6	84.0	44.0-160			6.45	20
Methylene Chloride	5.00	4.84	4.60	96.8	92.0	67.0-120			5.08	20
4-Methyl-2-pentanone (MIBK)	25.0	24.0	22.2	96.0	88.8	68.0-142			7.79	20
Methyl tert-butyl ether	5.00	4.66	4.63	93.2	92.6	68.0-125			0.646	20
Naphthalene	5.00	3.70	3.73	74.0	74.6	54.0-135			0.808	20
n-Propylbenzene	5.00	4.99	4.83	99.8	96.6	77.0-124			3.26	20
Styrene	5.00	4.23	4.06	84.6	81.2	73.0-130			4.10	20
1,1,1,2-Tetrachloroethane	5.00	4.86	4.51	97.2	90.2	75.0-125			7.47	20
1,1,2,2-Tetrachloroethane	5.00	4.67	4.31	93.4	86.2	65.0-130			8.02	20
Tetrachloroethene	5.00	5.10	4.91	102	98.2	72.0-132			3.80	20
Toluene	5.00	4.87	4.72	97.4	94.4	79.0-120			3.13	20
1,1,2-Trichlorotrifluoroethane	5.00	5.05	4.69	101	93.8	69.0-132			7.39	20
1,2,3-Trichlorobenzene	5.00	4.77	4.58	95.4	91.6	50.0-138			4.06	20
1,2,4-Trichlorobenzene	5.00	5.20	5.08	104	102	57.0-137			2.33	20
1,1,1-Trichloroethane	5.00	5.01	4.80	100	96.0	73.0-124			4.28	20
1,1,2-Trichloroethane	5.00	4.94	5.05	98.8	101	80.0-120			2.20	20
Trichloroethene	5.00	4.93	4.66	98.6	93.2	78.0-124			5.63	20
Trichlorofluoromethane	5.00	5.11	4.82	102	96.4	59.0-147			5.84	20
1,2,3-Trichloropropane	5.00	4.78	4.61	95.6	92.2	73.0-130			3.62	20
1,2,3-Trimethylbenzene	5.00	4.77	4.49	95.4	89.8	77.0-120			6.05	20
1,2,4-Trimethylbenzene	5.00	4.98	4.79	99.6	95.8	76.0-121			3.89	20
1,3,5-Trimethylbenzene	5.00	4.85	4.65	97.0	93.0	76.0-122			4.21	20
Vinyl acetate	25.0	20.5	19.7	82.0	78.8	11.0-160			3.98	20
Vinyl chloride	5.00	5.01	4.94	100	98.8	67.0-131			1.41	20
Xylenes, Total	15.0	14.7	14.2	98.0	94.7	79.0-123			3.46	20
(S) Toluene-d8				94.4	95.6	80.0-120				
(S) 4-Bromofluorobenzene				93.7	96.0	77.0-126				
(S) 1,2-Dichloroethane-d4				89.0	88.9	70.0-130				

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



L1215620-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1215620-02 05/08/20 18:27 • (MS) R3526207-4 05/09/20 00:12 • (MSD) R3526207-5 05/09/20 00:32

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	U	17.9	111	71.6	444	1	10.0-160		J3 J5	144	35
Acrylonitrile	25.0	U	20.7	39.2	82.8	157	1	21.0-160		J3	61.8	32
Benzene	5.00	7.60	3.64	12.0	0.000	88.0	1	17.0-158	J6	J3	107	27
Bromobenzene	5.00	U	3.29	5.39	65.8	108	1	30.0-149		J3	48.4	28
Bromodichloromethane	5.00	U	3.57	4.37	71.4	87.4	1	31.0-150			20.2	27
Bromochloromethane	5.00	U	4.03	4.55	80.6	91.0	1	38.0-142			12.1	26
Bromoform	5.00	U	3.34	4.11	66.8	82.2	1	29.0-150			20.7	29
Bromomethane	5.00	U	3.98	4.46	79.6	89.2	1	10.0-160			11.4	38
n-Butylbenzene	5.00	U	2.93	6.99	58.6	140	1	31.0-150		J3	81.9	30
sec-Butylbenzene	5.00	U	3.04	4.29	60.8	85.8	1	33.0-155		J3	34.1	29
tert-Butylbenzene	5.00	U	3.18	14.9	63.6	298	1	34.0-153		J3 J5	130	28
Carbon disulfide	5.00	U	4.13	5.55	82.6	111	1	10.0-156		J3	29.3	28
Carbon tetrachloride	5.00	U	3.45	4.48	69.0	89.6	1	23.0-159			26.0	28
Chlorobenzene	5.00	U	3.47	4.35	69.4	87.0	1	33.0-152			22.5	27
Chlorodibromomethane	5.00	U	3.50	4.21	70.0	84.2	1	37.0-149			18.4	27
Chloroethane	5.00	U	4.12	4.79	82.4	95.8	1	10.0-160			15.0	30
Chloroform	5.00	U	3.53	5.23	70.6	105	1	29.0-154		J3	38.8	28
Chloromethane	5.00	U	4.67	4.38	93.4	87.6	1	10.0-160			6.41	29
trans-1,4-Dichloro-2-butene	5.00	U	2.78	2.82	55.6	56.4	1	10.0-157			1.43	37
2-Chlorotoluene	5.00	U	3.10	4.67	62.0	93.4	1	32.0-153		J3	40.4	28
4-Chlorotoluene	5.00	U	3.13	3.77	62.6	75.4	1	32.0-150			18.6	28
1,2-Dibromo-3-Chloropropane	5.00	U	3.20	3.94	64.0	78.8	1	22.0-151			20.7	34
2-Hexanone	25.0	U	16.0	21.1	64.0	84.4	1	21.0-160			27.5	29
Dibromomethane	5.00	U	3.72	4.90	74.4	98.0	1	30.0-151		J3	27.4	27
1,2-Dichlorobenzene	5.00	U	3.37	4.15	67.4	83.0	1	34.0-149			20.7	28
n-Hexane	5.00	10.3	3.18	13.0	0.000	54.0	1	10.0-153	J6	J3	121	28
1,3-Dichlorobenzene	5.00	U	3.33	4.00	66.6	80.0	1	36.0-146			18.3	27
Iodomethane	25.0	U	19.9	23.1	79.6	92.4	1	10.0-160			14.9	40
1,4-Dichlorobenzene	5.00	U	3.10	3.53	62.0	70.6	1	35.0-142			13.0	27
Dichlorodifluoromethane	5.00	0.952	4.60	6.41	73.0	109	1	10.0-160		J3	32.9	29
1,1-Dichloroethane	5.00	U	3.92	5.03	78.4	101	1	25.0-158			24.8	27
1,2-Dichloroethane	5.00	U	3.52	4.41	70.4	88.2	1	29.0-151			22.4	27
1,1-Dichloroethene	5.00	U	3.83	4.65	76.6	93.0	1	11.0-160			19.3	29
cis-1,2-Dichloroethene	5.00	U	3.56	4.25	71.2	85.0	1	10.0-160			17.7	27
trans-1,2-Dichloroethene	5.00	U	3.74	4.55	74.8	91.0	1	17.0-153			19.5	27
1,2-Dichloropropane	5.00	U	3.51	4.46	70.2	89.2	1	30.0-156			23.8	27
1,1-Dichloropropene	5.00	U	3.51	4.64	70.2	92.8	1	25.0-158		J3	27.7	27
1,3-Dichloropropane	5.00	U	3.79	4.47	75.8	89.4	1	38.0-147			16.5	27
cis-1,3-Dichloropropene	5.00	U	3.45	4.37	69.0	87.4	1	34.0-149			23.5	28
trans-1,3-Dichloropropene	5.00	U	3.66	4.23	73.2	84.6	1	32.0-149			14.4	28

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



L1215620-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1215620-02 05/08/20 18:27 • (MS) R3526207-4 05/09/20 00:12 • (MSD) R3526207-5 05/09/20 00:32

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 %
2,2-Dichloropropane	5.00	U	3.78	4.36	75.6	87.2	1	24.0-152			14.3	29
Di-isopropyl ether	5.00	U	3.50	4.31	70.0	86.2	1	21.0-160			20.7	28
Ethylbenzene	5.00	4.89	3.32	9.18	0.000	85.8	1	30.0-155	J6	J3	93.8	27
Hexachloro-1,3-butadiene	5.00	U	2.68	3.15	53.6	63.0	1	20.0-154			16.1	34
1,2-Dibromoethane	5.00	U	3.69	4.50	73.8	90.0	1	34.0-147			19.8	27
Isopropylbenzene	5.00	4.63	3.19	9.11	0.000	89.6	1	28.0-157	J6	J3	96.3	27
Vinyl acetate	25.0	U	16.1	20.8	64.4	83.2	1	12.0-160			25.5	31
p-Isopropyltoluene	5.00	1.07	2.91	4.61	36.8	70.8	1	30.0-154		J3	45.2	29
2-Butanone (MEK)	25.0	U	18.1	38.4	72.4	154	1	10.0-160		J3	71.9	32
Methylene Chloride	5.00	U	3.99	4.97	79.8	99.4	1	23.0-144			21.9	28
4-Methyl-2-pentanone (MIBK)	25.0	U	17.4	21.9	69.6	87.6	1	29.0-160			22.9	29
Methyl tert-butyl ether	5.00	U	3.38	4.28	67.6	85.6	1	28.0-150			23.5	29
Naphthalene	5.00	2.81	2.61	6.96	0.000	83.0	1	12.0-156	J6	J3	90.9	35
n-Propylbenzene	5.00	12.6	3.13	16.0	0.000	68.0	1	31.0-154	J6	J3	135	28
Styrene	5.00	U	2.99	3.89	59.8	77.8	1	33.0-155			26.2	28
1,1,1,2-Tetrachloroethane	5.00	U	3.58	4.27	71.6	85.4	1	36.0-151			17.6	29
1,1,2,2-Tetrachloroethane	5.00	U	3.58	4.21	71.6	84.2	1	33.0-150			16.2	28
Tetrachloroethene	5.00	U	5.03	5.21	101	104	1	10.0-160			3.52	27
Toluene	5.00	0.565	3.53	4.81	59.3	84.9	1	26.0-154		J3	30.7	28
1,1,2-Trichlorotrifluoroethane	5.00	U	3.37	4.16	67.4	83.2	1	23.0-160			21.0	30
1,2,3-Trichlorobenzene	5.00	U	2.92	3.76	58.4	75.2	1	17.0-150			25.1	36
1,2,4-Trichlorobenzene	5.00	U	2.98	3.95	59.6	79.0	1	24.0-150			28.0	33
1,1,1-Trichloroethane	5.00	U	3.91	5.13	78.2	103	1	23.0-160			27.0	28
1,1,2-Trichloroethane	5.00	U	3.64	5.20	72.8	104	1	35.0-147		J3	35.3	27
Trichloroethene	5.00	U	3.67	4.31	73.4	86.2	1	10.0-160			16.0	25
Trichlorofluoromethane	5.00	U	3.73	4.64	74.6	92.8	1	17.0-160			21.7	31
1,2,3-Trimethylbenzene	5.00	28.2	3.19	30.9	0.000	54.0	1	32.0-149	V	J3	163	28
1,2,4-Trimethylbenzene	5.00	92.9	3.14	92.5	0.000	0.000	1	26.0-154	V	J3 V	187	27
1,3,5-Trimethylbenzene	5.00	9.43	3.12	12.6	0.000	63.4	1	28.0-153	J6	J3	121	27
Vinyl chloride	5.00	U	4.67	5.33	93.4	107	1	10.0-160			13.2	27
Xylenes, Total	15.0	132	9.95	140	0.000	53.3	1	29.0-154	V	J3	173	28
1,2,3-Trichloropropane	5.00	U	3.69	4.18	73.8	83.6	1	34.0-151			12.5	29
(S) Toluene-d8					91.1	91.6		80.0-120				
(S) 4-Bromofluorobenzene					89.7	92.9		77.0-126				
(S) 1,2-Dichloroethane-d4					91.8	92.3		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) R3527859-2 05/08/20 20:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromochloromethane	U		0.128	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
trans-1,4-Dichloro-2-butene	U		0.467	5.00
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3527859-2 05/08/20 20:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	0.500
Hexachloro-1,3-butadiene	U		0.337	1.00
2-Hexanone	U		0.787	5.00
n-Hexane	U		0.749	5.00
Iodomethane	U		0.554	5.00
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	0.500
1,2,4-Trimethylbenzene	U		0.322	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl acetate	U		0.692	5.00
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	107			80.0-120
(S) 4-Bromofluorobenzene	102			77.0-126
(S) 1,2-Dichloroethane-d4	115			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) R3527859-1 05/08/20 19:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	25.0	41.9	168	19.0-160	J4
Acrylonitrile	25.0	25.4	102	55.0-149	
Benzene	5.00	4.55	91.0	70.0-123	
Bromobenzene	5.00	4.65	93.0	73.0-121	
Bromodichloromethane	5.00	4.98	99.6	75.0-120	
Bromochloromethane	5.00	5.51	110	76.0-122	
Bromoform	5.00	5.10	102	68.0-132	
Bromomethane	5.00	5.21	104	10.0-160	
n-Butylbenzene	5.00	4.63	92.6	73.0-125	
sec-Butylbenzene	5.00	4.79	95.8	75.0-125	
tert-Butylbenzene	5.00	4.71	94.2	76.0-124	
Carbon disulfide	5.00	5.01	100	61.0-128	
Carbon tetrachloride	5.00	4.69	93.8	68.0-126	
Chlorobenzene	5.00	4.73	94.6	80.0-121	
Chlorodibromomethane	5.00	5.07	101	77.0-125	
Chloroethane	5.00	5.19	104	47.0-150	
Chloroform	5.00	4.78	95.6	73.0-120	
Chloromethane	5.00	4.18	83.6	41.0-142	
2-Chlorotoluene	5.00	4.68	93.6	76.0-123	
4-Chlorotoluene	5.00	4.82	96.4	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	5.29	106	58.0-134	
1,2-Dibromoethane	5.00	4.98	99.6	80.0-122	
Dibromomethane	5.00	4.85	97.0	80.0-120	
1,2-Dichlorobenzene	5.00	4.90	98.0	79.0-121	
1,3-Dichlorobenzene	5.00	4.99	99.8	79.0-120	
1,4-Dichlorobenzene	5.00	4.80	96.0	79.0-120	
trans-1,4-Dichloro-2-butene	5.00	4.58	91.6	33.0-144	
Dichlorodifluoromethane	5.00	4.60	92.0	51.0-149	
1,1-Dichloroethane	5.00	4.84	96.8	70.0-126	
1,2-Dichloroethane	5.00	4.77	95.4	70.0-128	
1,1-Dichloroethene	5.00	5.07	101	71.0-124	
cis-1,2-Dichloroethene	5.00	5.23	105	73.0-120	
trans-1,2-Dichloroethene	5.00	4.63	92.6	73.0-120	
1,2-Dichloropropane	5.00	4.62	92.4	77.0-125	
1,1-Dichloropropene	5.00	4.75	95.0	74.0-126	
1,3-Dichloropropane	5.00	5.07	101	80.0-120	
cis-1,3-Dichloropropene	5.00	4.89	97.8	80.0-123	
trans-1,3-Dichloropropene	5.00	5.08	102	78.0-124	
2,2-Dichloropropane	5.00	5.20	104	58.0-130	
Di-isopropyl ether	5.00	4.60	92.0	58.0-138	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3527859-1 05/08/20 19:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	5.00	4.78	95.6	79.0-123	
Hexachloro-1,3-butadiene	5.00	4.11	82.2	54.0-138	
2-Hexanone	25.0	28.1	112	67.0-149	
n-Hexane	5.00	5.09	102	57.0-133	
Iodomethane	25.0	26.2	105	33.0-147	
Isopropylbenzene	5.00	4.84	96.8	76.0-127	
p-Isopropyltoluene	5.00	4.96	99.2	76.0-125	
2-Butanone (MEK)	25.0	31.4	126	44.0-160	
Methylene Chloride	5.00	5.10	102	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	26.5	106	68.0-142	
Methyl tert-butyl ether	5.00	5.07	101	68.0-125	
Naphthalene	5.00	4.60	92.0	54.0-135	
n-Propylbenzene	5.00	4.48	89.6	77.0-124	
Styrene	5.00	4.95	99.0	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	4.85	97.0	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	4.72	94.4	65.0-130	
Tetrachloroethene	5.00	5.08	102	72.0-132	
Toluene	5.00	4.48	89.6	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	5.20	104	69.0-132	
1,2,3-Trichlorobenzene	5.00	4.44	88.8	50.0-138	
1,2,4-Trichlorobenzene	5.00	4.33	86.6	57.0-137	
1,1,1-Trichloroethane	5.00	4.98	99.6	73.0-124	
1,1,2-Trichloroethane	5.00	5.19	104	80.0-120	
Trichloroethene	5.00	4.66	93.2	78.0-124	
Trichlorofluoromethane	5.00	5.11	102	59.0-147	
1,2,3-Trichloropropane	5.00	5.13	103	73.0-130	
1,2,3-Trimethylbenzene	5.00	4.68	93.6	77.0-120	
1,2,4-Trimethylbenzene	5.00	4.75	95.0	76.0-121	
1,3,5-Trimethylbenzene	5.00	4.65	93.0	76.0-122	
Vinyl acetate	25.0	31.6	126	11.0-160	
Vinyl chloride	5.00	4.82	96.4	67.0-131	
Xylenes, Total	15.0	14.4	96.0	79.0-123	
(S) Toluene-d8			107	80.0-120	
(S) 4-Bromofluorobenzene			104	77.0-126	
(S) 1,2-Dichloroethane-d4			115	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) R3526537-2 05/10/20 11:32

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromochloromethane	U		0.128	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
trans-1,4-Dichloro-2-butene	U		0.467	5.00
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3526537-2 05/10/20 11:32

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	0.500
Hexachloro-1,3-butadiene	U		0.337	1.00
2-Hexanone	U		0.787	5.00
n-Hexane	U		0.749	5.00
Iodomethane	U		0.554	5.00
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	0.500
1,2,4-Trimethylbenzene	U		0.322	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl acetate	U		0.692	5.00
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	108			80.0-120
(S) 4-Bromofluorobenzene	102			77.0-126
(S) 1,2-Dichloroethane-d4	116			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) R3526537-1 05/10/20 10:54

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	25.0	31.4	126	19.0-160	
Acrylonitrile	25.0	23.8	95.2	55.0-149	
Benzene	5.00	4.61	92.2	70.0-123	
Bromobenzene	5.00	4.82	96.4	73.0-121	
Bromodichloromethane	5.00	5.16	103	75.0-120	
Bromochloromethane	5.00	5.38	108	76.0-122	
Bromoform	5.00	5.24	105	68.0-132	
Bromomethane	5.00	5.23	105	10.0-160	
n-Butylbenzene	5.00	4.71	94.2	73.0-125	
sec-Butylbenzene	5.00	4.94	98.8	75.0-125	
tert-Butylbenzene	5.00	4.91	98.2	76.0-124	
Carbon disulfide	5.00	5.19	104	61.0-128	
Carbon tetrachloride	5.00	5.12	102	68.0-126	
Chlorobenzene	5.00	4.78	95.6	80.0-121	
Chlorodibromomethane	5.00	5.10	102	77.0-125	
Chloroethane	5.00	5.58	112	47.0-150	
Chloroform	5.00	4.93	98.6	73.0-120	
Chloromethane	5.00	4.34	86.8	41.0-142	
2-Chlorotoluene	5.00	4.76	95.2	76.0-123	
4-Chlorotoluene	5.00	4.92	98.4	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.88	97.6	58.0-134	
1,2-Dibromoethane	5.00	5.00	100	80.0-122	
Dibromomethane	5.00	5.12	102	80.0-120	
1,2-Dichlorobenzene	5.00	4.85	97.0	79.0-121	
1,3-Dichlorobenzene	5.00	4.87	97.4	79.0-120	
1,4-Dichlorobenzene	5.00	4.83	96.6	79.0-120	
trans-1,4-Dichloro-2-butene	5.00	5.36	107	33.0-144	
Dichlorodifluoromethane	5.00	4.32	86.4	51.0-149	
1,1-Dichloroethane	5.00	4.96	99.2	70.0-126	
1,2-Dichloroethane	5.00	4.90	98.0	70.0-128	
1,1-Dichloroethene	5.00	5.39	108	71.0-124	
cis-1,2-Dichloroethene	5.00	5.06	101	73.0-120	
trans-1,2-Dichloroethene	5.00	5.17	103	73.0-120	
1,2-Dichloropropane	5.00	4.71	94.2	77.0-125	
1,1-Dichloropropene	5.00	5.03	101	74.0-126	
1,3-Dichloropropane	5.00	5.00	100	80.0-120	
cis-1,3-Dichloropropene	5.00	5.08	102	80.0-123	
trans-1,3-Dichloropropene	5.00	5.41	108	78.0-124	
2,2-Dichloropropane	5.00	5.66	113	58.0-130	
Di-isopropyl ether	5.00	4.84	96.8	58.0-138	

¹ Cp

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⁶ Qc

⁷ Gl

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Laboratory Control Sample (LCS)

(LCS) R3526537-1 05/10/20 10:54

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	5.00	4.89	97.8	79.0-123	
Hexachloro-1,3-butadiene	5.00	3.90	78.0	54.0-138	
2-Hexanone	25.0	27.4	110	67.0-149	
n-Hexane	5.00	5.80	116	57.0-133	
Iodomethane	25.0	27.0	108	33.0-147	
Isopropylbenzene	5.00	4.87	97.4	76.0-127	
p-Isopropyltoluene	5.00	5.11	102	76.0-125	
2-Butanone (MEK)	25.0	30.8	123	44.0-160	
Methylene Chloride	5.00	5.04	101	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	26.4	106	68.0-142	
Methyl tert-butyl ether	5.00	4.82	96.4	68.0-125	
Naphthalene	5.00	4.25	85.0	54.0-135	
n-Propylbenzene	5.00	4.63	92.6	77.0-124	
Styrene	5.00	4.98	99.6	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	5.15	103	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	4.75	95.0	65.0-130	
Tetrachloroethene	5.00	5.23	105	72.0-132	
Toluene	5.00	4.57	91.4	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	5.28	106	69.0-132	
1,2,3-Trichlorobenzene	5.00	4.29	85.8	50.0-138	
1,2,4-Trichlorobenzene	5.00	4.48	89.6	57.0-137	
1,1,1-Trichloroethane	5.00	5.28	106	73.0-124	
1,1,2-Trichloroethane	5.00	5.14	103	80.0-120	
Trichloroethene	5.00	4.91	98.2	78.0-124	
Trichlorofluoromethane	5.00	5.37	107	59.0-147	
1,2,3-Trichloropropane	5.00	5.15	103	73.0-130	
1,2,3-Trimethylbenzene	5.00	4.84	96.8	77.0-120	
1,2,4-Trimethylbenzene	5.00	4.73	94.6	76.0-121	
1,3,5-Trimethylbenzene	5.00	4.82	96.4	76.0-122	
Vinyl acetate	25.0	30.5	122	11.0-160	
Vinyl chloride	5.00	5.08	102	67.0-131	
Xylenes, Total	15.0	14.6	97.3	79.0-123	
<i>(S) Toluene-d8</i>			106	80.0-120	
<i>(S) 4-Bromofluorobenzene</i>			103	77.0-126	
<i>(S) 1,2-Dichloroethane-d4</i>			116	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



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.

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
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.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
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.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
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}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

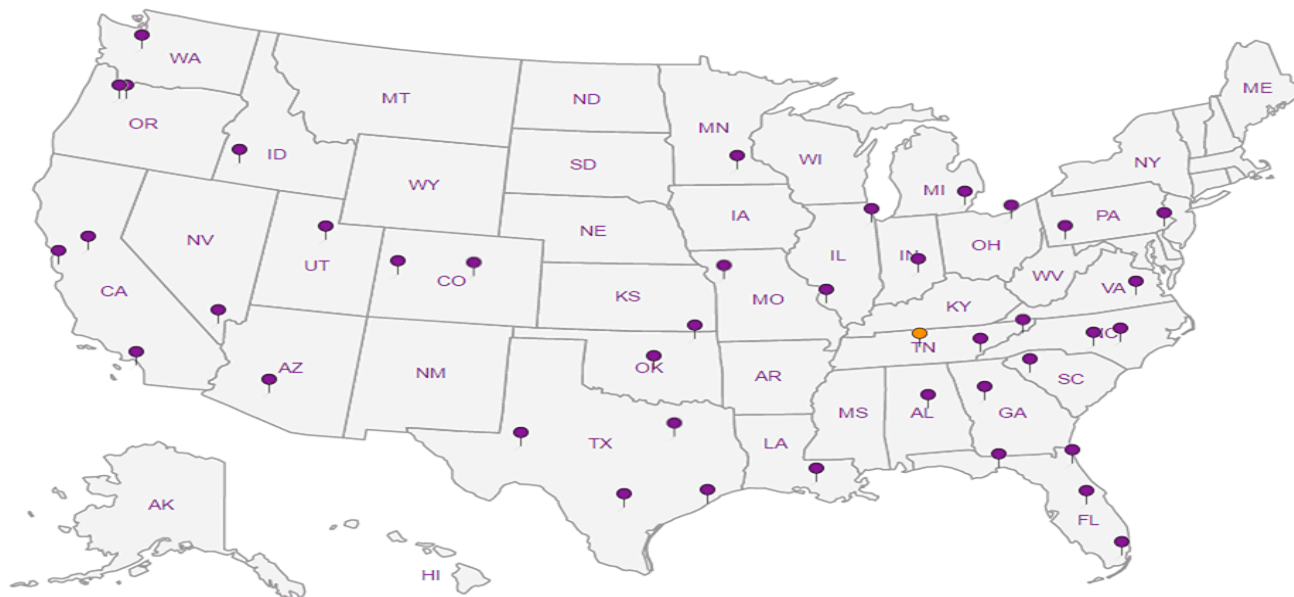
Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:

Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



Report to:
Brian O'Neal/Bill Haldeman

Email To:
boneal@pesenv.com; bhaldeman@pesenv.com;

Project Description:
American Linen

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

Please Circle:
PT MT CT ET

Phone: 206-529-3980

Client Project #
1413.001.02.501E

Lab Project #
PESENVSWA-ALP

Collected by (print):
HRC/BLH

Site/Facility ID #
American Linen

P.O. #

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

Quote #

Date Results Needed

Immediately
Packed on Ice N ___ Y

No.
of
Ctrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Ctrs	*NO3,Cl,S04 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlHDPE-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs 8260D LL 40mlAmb-HCl	Remarks	Sample # (lab only)
FMW-37-050620	Grab	GW	87	5/6/20	735	9	X	X	X		X	X	X		-01
MW-8-050620		GW	18		900	3							X		-02
MW-930-050620		GW	135		1000	12	X	X	X	X	X	X	X		-03
MW106-050620		GW	135		1135	12	X	X	X	X	X	X	X		-04
FMW-129-050620		GW	87.5		1140	9	X	X	X		X	X	X		-05
EQ-050620		GW	-		1300	12	X	X	X	X	X	X	X		-06
		GW													
		GW													
		GW													
		GW													

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

Remarks: *Nitrate has a 48 hour holding time.

pH ___ Temp ___
Flow ___ Other ___

Sample Receipt Check/1st
COC Seal Present/Intact: NP Y ___ N ___
COC Signed/Accurate: Y ___ N ___
Bottles arrive intact: Y ___ N ___
Correct bottles used: Y ___ N ___
Sufficient volume used: Y ___ N ___
If Applicable
VOA Zero Headspace: Y ___ N ___
Preservation Correct/Checked: Y ___ N ___
RAD Screen <0.5 mR/hr: Y ___ N ___

Samples returned via:
___ UPS ___ FedEx ___ Courier

Tracking # **1749 9998 8800**

Relinquished by: (Signature)
[Signature]

Date: **5/6/20** Time: **1400**

Received by: (Signature)

Trip Blank Received: Yes/No
HCL/MeOH
TBR

Relinquished by: (Signature)

Date: Time:

Received by: (Signature)

Temp: **18.3 °C** Bottles Received: **57**
1.8+3=2.1

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature)
[Signature]

Date: **5/7/20** Time: **0845**

Hold: Condition: NCF / OK