APPENDIX H

RI LABORATORY DATA

PART 10

L1262257-L1286095

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

October 23, 2020

Revised Report

PES Environmental, Inc.- WA

Sample Delivery Group:	L1262257
Samples Received:	09/16/2020
Project Number:	1413.001.05.601
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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PRB-C1-091520 L1262257-01 GW

Collected by: BLH/HRL | Collected date/time: 09/15/20 09:00 | Received date/time: 09/16/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1544185	1	09/17/20 14:46	09/17/20 14:46	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1543962	1	09/16/20 21:56	09/16/20 21:56	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1544259	1	09/18/20 04:26	09/18/20 04:26	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1544670	1	09/20/20 18:50	09/20/20 22:50	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1546048	1	09/20/20 14:06	09/20/20 14:06	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1545826	1	09/20/20 15:02	09/20/20 15:02	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1545111	1	09/18/20 04:57	09/18/20 04:57	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1545375	1	09/19/20 02:27	09/19/20 02:27	JAH	Mt. Juliet, TN

PRB-A1-091520 L1262257-02 GW

Collected by: BLH/HRL | Collected date/time: 09/15/20 10:45 | Received date/time: 09/16/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1544185	1	09/17/20 14:56	09/17/20 14:56	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1543962	1	09/16/20 22:21	09/16/20 22:21	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1544259	1	09/18/20 04:50	09/18/20 04:50	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1544670	1	09/20/20 18:50	09/20/20 22:54	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1546048	1	09/20/20 14:26	09/20/20 14:26	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1545826	1	09/20/20 15:06	09/20/20 15:06	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1545111	1	09/18/20 05:16	09/18/20 05:16	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1545375	10	09/19/20 03:24	09/19/20 03:24	JAH	Mt. Juliet, TN

PRB-B1-091520 L1262257-03 GW

Collected by: BLH/HRL | Collected date/time: 09/15/20 11:25 | Received date/time: 09/16/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1544185	1	09/17/20 15:03	09/17/20 15:03	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1543962	1	09/16/20 22:59	09/16/20 22:59	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1544259	1	09/18/20 05:12	09/18/20 05:12	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1544670	1	09/20/20 18:50	09/20/20 22:57	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1546048	1	09/20/20 14:47	09/20/20 14:47	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1545826	1	09/20/20 15:10	09/20/20 15:10	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1545111	1	09/18/20 05:35	09/18/20 05:35	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1545375	20	09/19/20 03:43	09/19/20 03:43	JAH	Mt. Juliet, TN

PRB-D1-091520 L1262257-04 GW

Collected by: BLH/HRL | Collected date/time: 09/15/20 12:45 | Received date/time: 09/16/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1544185	1	09/17/20 15:10	09/17/20 15:10	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1543962	1	09/16/20 23:12	09/16/20 23:12	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1544259	1	09/18/20 05:29	09/18/20 05:29	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1544670	1	09/20/20 18:50	09/20/20 23:01	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1546048	1	09/20/20 15:08	09/20/20 15:08	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1545826	1	09/20/20 15:15	09/20/20 15:15	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1545111	1	09/18/20 05:54	09/18/20 05:54	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1545375	1	09/19/20 02:46	09/19/20 02:46	JAH	Mt. Juliet, TN

PRB-A17-091520 L1262257-05 GW

Collected by: BLH/HRL
Collected date/time: 09/15/20 13:30
Received date/time: 09/16/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1544185	1	09/17/20 15:18	09/17/20 15:18	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1543962	1	09/16/20 23:25	09/16/20 23:25	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1545290	1	09/18/20 13:54	09/18/20 13:54	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1544670	1	09/20/20 18:50	09/20/20 23:23	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1546048	1	09/20/20 15:29	09/20/20 15:29	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1545826	1	09/20/20 15:18	09/20/20 15:18	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1545111	1	09/18/20 06:12	09/18/20 06:12	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1545375	25	09/19/20 04:02	09/19/20 04:02	JAH	Mt. Juliet, TN

PRB-B17-091520 L1262257-06 GW

Collected by: BLH/HRL
Collected date/time: 09/15/20 15:15
Received date/time: 09/16/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1544185	1	09/17/20 15:36	09/17/20 15:36	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1543962	1	09/17/20 00:16	09/17/20 00:16	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1545290	1	09/18/20 14:23	09/18/20 14:23	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1544670	1	09/20/20 18:50	09/20/20 23:27	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1546048	1	09/20/20 15:50	09/20/20 15:50	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1545826	1	09/20/20 15:20	09/20/20 15:20	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1547998	1	09/24/20 15:43	09/24/20 15:43	JHH	Mt. Juliet, TN

PRB-C17-091520 L1262257-07 GW

Collected by: BLH/HRL
Collected date/time: 09/15/20 15:15
Received date/time: 09/16/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1544185	1	09/17/20 15:45	09/17/20 15:45	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1543962	1	09/17/20 00:42	09/17/20 00:42	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1545290	1	09/18/20 14:37	09/18/20 14:37	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1544670	1	09/20/20 18:50	09/20/20 23:31	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1546048	1	09/20/20 16:10	09/20/20 16:10	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1545826	1	09/20/20 15:24	09/20/20 15:24	JAL	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1547998	1	09/24/20 16:02	09/24/20 16:02	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

Report Revision History

Level II Report - Version 1: 09/24/20 21:08

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	271000		8450	20000	1	09/17/2020 14:46	WG1544185

Sample Narrative:

L1262257-01 WG1544185: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	31900		379	1000	1	09/16/2020 21:56	WG1543962
Nitrate	U		48.0	100	1	09/16/2020 21:56	WG1543962
Sulfate	6280		594	5000	1	09/16/2020 21:56	WG1543962

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)	3100	B	102	1000	1	09/18/2020 04:26	WG1544259

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2840		48.9	100	1	09/20/2020 22:50	WG1544670
Manganese	299		1.32	5.00	1	09/20/2020 22:50	WG1544670

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	40.4	B J	31.6	100	1	09/20/2020 14:06	WG1546048
(S) a,a,a-Trifluorotoluene(FID)	*91.0*			*78.0-120*		*09/20/2020 14:06*	WG1546048

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	855		0.287	0.678	1	09/20/2020 15:02	WG1545826
Ethane	U		0.296	1.29	1	09/20/2020 15:02	WG1545826
Ethene	8.18		0.422	1.27	1	09/20/2020 15:02	WG1545826

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	J0	0.548	1.00	1	09/18/2020 04:57	WG1545111
Acrylonitrile	U	J0	0.0760	0.500	1	09/18/2020 04:57	WG1545111
Benzene	0.0420		0.0160	0.0400	1	09/18/2020 04:57	WG1545111
Bromobenzene	U		0.0420	0.500	1	09/18/2020 04:57	WG1545111
Bromodichloromethane	U		0.0315	0.100	1	09/18/2020 04:57	WG1545111
Bromoform	U		0.239	1.00	1	09/18/2020 04:57	WG1545111
Bromomethane	U		0.148	0.500	1	09/18/2020 04:57	WG1545111
n-Butylbenzene	U		0.153	0.500	1	09/18/2020 04:57	WG1545111
sec-Butylbenzene	U		0.101	0.500	1	09/18/2020 04:57	WG1545111
tert-Butylbenzene	U		0.0620	0.200	1	09/18/2020 04:57	WG1545111
Carbon tetrachloride	U		0.0432	0.200	1	09/18/2020 04:57	WG1545111
Chlorobenzene	U		0.0229	0.100	1	09/18/2020 04:57	WG1545111
Chlorodibromomethane	U		0.0180	0.100	1	09/18/2020 04:57	WG1545111

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloroethane	U		0.0432	0.200	1	09/18/2020 04:57	WG1545111
Chloroform	U		0.0166	0.100	1	09/18/2020 04:57	WG1545111
Chloromethane	U		0.0556	0.500	1	09/18/2020 04:57	WG1545111
2-Chlorotoluene	U		0.0368	0.100	1	09/18/2020 04:57	WG1545111
4-Chlorotoluene	U		0.0452	0.200	1	09/18/2020 04:57	WG1545111
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/18/2020 04:57	WG1545111
1,2-Dibromoethane	U		0.0210	0.100	1	09/18/2020 04:57	WG1545111
Dibromomethane	U	J0	0.0400	0.200	1	09/18/2020 04:57	WG1545111
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/18/2020 04:57	WG1545111
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/18/2020 04:57	WG1545111
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/18/2020 04:57	WG1545111
Dichlorodifluoromethane	U		0.0327	0.100	1	09/18/2020 04:57	WG1545111
1,1-Dichloroethane	U		0.0230	0.100	1	09/18/2020 04:57	WG1545111
1,2-Dichloroethane	U	J0	0.0190	0.100	1	09/18/2020 04:57	WG1545111
1,1-Dichloroethene	0.0530	J	0.0200	0.100	1	09/18/2020 04:57	WG1545111
cis-1,2-Dichloroethene	0.381		0.0276	0.100	1	09/19/2020 02:27	WG1545375
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/18/2020 04:57	WG1545111
1,2-Dichloropropane	U		0.0508	0.200	1	09/18/2020 04:57	WG1545111
1,1-Dichloropropene	U		0.0280	0.100	1	09/18/2020 04:57	WG1545111
1,3-Dichloropropane	U		0.0700	0.200	1	09/18/2020 04:57	WG1545111
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/18/2020 04:57	WG1545111
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/18/2020 04:57	WG1545111
2,2-Dichloropropane	U	J0	0.0317	0.100	1	09/18/2020 04:57	WG1545111
Di-isopropyl ether	U		0.0140	0.0400	1	09/18/2020 04:57	WG1545111
Ethylbenzene	0.0510	J	0.0212	0.100	1	09/18/2020 04:57	WG1545111
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/18/2020 04:57	WG1545111
Isopropylbenzene	U		0.0345	0.100	1	09/18/2020 04:57	WG1545111
p-Isopropyltoluene	U		0.0932	0.200	1	09/18/2020 04:57	WG1545111
2-Butanone (MEK)	U		0.500	1.00	1	09/18/2020 04:57	WG1545111
Methylene Chloride	U		0.265	1.00	1	09/18/2020 04:57	WG1545111
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/18/2020 04:57	WG1545111
Methyl tert-butyl ether	U	J0	0.0118	0.0400	1	09/18/2020 04:57	WG1545111
Naphthalene	U		0.124	0.500	1	09/18/2020 04:57	WG1545111
n-Propylbenzene	U		0.0472	0.200	1	09/18/2020 04:57	WG1545111
Styrene	U		0.109	0.500	1	09/18/2020 04:57	WG1545111
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/18/2020 04:57	WG1545111
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/18/2020 04:57	WG1545111
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/18/2020 04:57	WG1545111
Tetrachloroethene	0.0900	J	0.0280	0.100	1	09/18/2020 04:57	WG1545111
Toluene	0.893		0.0500	0.200	1	09/18/2020 04:57	WG1545111
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/18/2020 04:57	WG1545111
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/18/2020 04:57	WG1545111
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/18/2020 04:57	WG1545111
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/18/2020 04:57	WG1545111
Trichloroethene	0.191		0.0160	0.0400	1	09/18/2020 04:57	WG1545111
Trichlorofluoromethane	U		0.0200	0.100	1	09/18/2020 04:57	WG1545111
1,2,3-Trichloropropane	U		0.204	0.500	1	09/18/2020 04:57	WG1545111
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/18/2020 04:57	WG1545111
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/18/2020 04:57	WG1545111
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/18/2020 04:57	WG1545111
Vinyl chloride	5.77		0.0273	0.100	1	09/18/2020 04:57	WG1545111
Xylenes, Total	0.201	J	0.191	0.260	1	09/18/2020 04:57	WG1545111
Ethyl Ether	U	J0	0.0170	0.100	1	09/18/2020 04:57	WG1545111
Tetrahydrofuran	U	J0	0.0900	0.500	1	09/18/2020 04:57	WG1545111
Iodomethane	U	J0	0.242	0.500	1	09/18/2020 04:57	WG1545111
Allyl chloride	U		0.580	1.00	1	09/18/2020 04:57	WG1545111

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/18/2020 04:57	WG1545111
(S) Toluene-d8	*111*			*75.0-131*		*09/18/2020 04:57*	WG1545111
(S) Toluene-d8	*93.2*			*75.0-131*		*09/19/2020 02:27*	WG1545375
(S) 4-Bromofluorobenzene	*88.1*			*67.0-138*		*09/18/2020 04:57*	WG1545111
(S) 4-Bromofluorobenzene	*99.1*			*67.0-138*		*09/19/2020 02:27*	WG1545375
(S) 1,2-Dichloroethane-d4	*97.0*			*70.0-130*		*09/18/2020 04:57*	WG1545111
(S) 1,2-Dichloroethane-d4	*120*			*70.0-130*		*09/19/2020 02:27*	WG1545375

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	373000		8450	20000	1	09/17/2020 14:56	WG1544185

Sample Narrative:

L1262257-02 WG1544185: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	27600		379	1000	1	09/16/2020 22:21	WG1543962
Nitrate	U		48.0	100	1	09/16/2020 22:21	WG1543962
Sulfate	63400		594	5000	1	09/16/2020 22:21	WG1543962

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)	8920		102	1000	1	09/18/2020 04:50	WG1544259

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	12700		48.9	100	1	09/20/2020 22:54	WG1544670
Manganese	1650		1.32	5.00	1	09/20/2020 22:54	WG1544670

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	499		31.6	100	1	09/20/2020 14:26	WG1546048
(S) a,a,a-Trifluorotoluene(FID)	*92.8*			*78.0-120*		*09/20/2020 14:26*	WG1546048

Sample Narrative:

L1262257-02 WG1546048: No discernible 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	2350		0.287	0.678	1	09/20/2020 15:06	WG1545826
Ethane	26.4		0.296	1.29	1	09/20/2020 15:06	WG1545826
Ethene	17.1		0.422	1.27	1	09/20/2020 15:06	WG1545826

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.49	J0	0.548	1.00	1	09/18/2020 05:16	WG1545111
Acrylonitrile	U	J0	0.0760	0.500	1	09/18/2020 05:16	WG1545111
Benzene	0.486		0.0160	0.0400	1	09/18/2020 05:16	WG1545111
Bromobenzene	U		0.0420	0.500	1	09/18/2020 05:16	WG1545111
Bromodichloromethane	U		0.0315	0.100	1	09/18/2020 05:16	WG1545111
Bromoform	U		0.239	1.00	1	09/18/2020 05:16	WG1545111
Bromomethane	U		0.148	0.500	1	09/18/2020 05:16	WG1545111
n-Butylbenzene	U		0.153	0.500	1	09/18/2020 05:16	WG1545111
sec-Butylbenzene	U		0.101	0.500	1	09/18/2020 05:16	WG1545111
tert-Butylbenzene	U		0.0620	0.200	1	09/18/2020 05:16	WG1545111

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Carbon tetrachloride	U		0.0432	0.200	1	09/18/2020 05:16	WG1545111
Chlorobenzene	U		0.0229	0.100	1	09/18/2020 05:16	WG1545111
Chlorodibromomethane	U		0.0180	0.100	1	09/18/2020 05:16	WG1545111
Chloroethane	U		0.0432	0.200	1	09/18/2020 05:16	WG1545111
Chloroform	U		0.0166	0.100	1	09/18/2020 05:16	WG1545111
Chloromethane	U		0.0556	0.500	1	09/18/2020 05:16	WG1545111
2-Chlorotoluene	U		0.0368	0.100	1	09/18/2020 05:16	WG1545111
4-Chlorotoluene	U		0.0452	0.200	1	09/18/2020 05:16	WG1545111
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/18/2020 05:16	WG1545111
1,2-Dibromoethane	U		0.0210	0.100	1	09/18/2020 05:16	WG1545111
Dibromomethane	U	J0	0.0400	0.200	1	09/18/2020 05:16	WG1545111
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/18/2020 05:16	WG1545111
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/18/2020 05:16	WG1545111
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/18/2020 05:16	WG1545111
Dichlorodifluoromethane	U		0.0327	0.100	1	09/18/2020 05:16	WG1545111
1,1-Dichloroethane	U		0.0230	0.100	1	09/18/2020 05:16	WG1545111
1,2-Dichloroethane	0.144	J0	0.0190	0.100	1	09/18/2020 05:16	WG1545111
1,1-Dichloroethene	1.74		0.0200	0.100	1	09/18/2020 05:16	WG1545111
cis-1,2-Dichloroethene	649		0.276	1.00	10	09/19/2020 03:24	WG1545375
trans-1,2-Dichloroethene	1.72		0.0572	0.200	1	09/18/2020 05:16	WG1545111
1,2-Dichloropropane	U		0.0508	0.200	1	09/18/2020 05:16	WG1545111
1,1-Dichloropropene	U		0.0280	0.100	1	09/18/2020 05:16	WG1545111
1,3-Dichloropropane	U		0.0700	0.200	1	09/18/2020 05:16	WG1545111
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/18/2020 05:16	WG1545111
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/18/2020 05:16	WG1545111
2,2-Dichloropropane	U	J0	0.0317	0.100	1	09/18/2020 05:16	WG1545111
Di-isopropyl ether	0.0420		0.0140	0.0400	1	09/18/2020 05:16	WG1545111
Ethylbenzene	0.104		0.0212	0.100	1	09/18/2020 05:16	WG1545111
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/18/2020 05:16	WG1545111
Isopropylbenzene	U		0.0345	0.100	1	09/18/2020 05:16	WG1545111
p-Isopropyltoluene	0.131	J	0.0932	0.200	1	09/18/2020 05:16	WG1545111
2-Butanone (MEK)	U		0.500	1.00	1	09/18/2020 05:16	WG1545111
Methylene Chloride	U		0.265	1.00	1	09/18/2020 05:16	WG1545111
4-Methyl-2-pentanone (MIBK)	2.08		0.400	1.00	1	09/18/2020 05:16	WG1545111
Methyl tert-butyl ether	U	J0	0.0118	0.0400	1	09/18/2020 05:16	WG1545111
Naphthalene	U		0.124	0.500	1	09/18/2020 05:16	WG1545111
n-Propylbenzene	U		0.0472	0.200	1	09/18/2020 05:16	WG1545111
Styrene	U		0.109	0.500	1	09/18/2020 05:16	WG1545111
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/18/2020 05:16	WG1545111
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/18/2020 05:16	WG1545111
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/18/2020 05:16	WG1545111
Tetrachloroethene	24.6		0.0280	0.100	1	09/18/2020 05:16	WG1545111
Toluene	0.654		0.0500	0.200	1	09/18/2020 05:16	WG1545111
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/18/2020 05:16	WG1545111
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/18/2020 05:16	WG1545111
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/18/2020 05:16	WG1545111
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/18/2020 05:16	WG1545111
Trichloroethene	25.6		0.0160	0.0400	1	09/18/2020 05:16	WG1545111
Trichlorofluoromethane	U		0.0200	0.100	1	09/18/2020 05:16	WG1545111
1,2,3-Trichloropropane	U		0.204	0.500	1	09/18/2020 05:16	WG1545111
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/18/2020 05:16	WG1545111
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/18/2020 05:16	WG1545111
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/18/2020 05:16	WG1545111
Vinyl chloride	45.2		0.0273	0.100	1	09/18/2020 05:16	WG1545111
Xylenes, Total	0.632		0.191	0.260	1	09/18/2020 05:16	WG1545111
Ethyl Ether	U	J0	0.0170	0.100	1	09/18/2020 05:16	WG1545111

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Tetrahydrofuran	13.7	J0	0.0900	0.500	1	09/18/2020 05:16	WG1545111
Iodomethane	U	J0	0.242	0.500	1	09/18/2020 05:16	WG1545111
Allyl chloride	U		0.580	1.00	1	09/18/2020 05:16	WG1545111
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/18/2020 05:16	WG1545111
(S) Toluene-d8	*110*			*75.0-131*		*09/18/2020 05:16*	WG1545111
(S) Toluene-d8	*97.8*			*75.0-131*		*09/19/2020 03:24*	WG1545375
(S) 4-Bromofluorobenzene	*94.1*			*67.0-138*		*09/18/2020 05:16*	WG1545111
(S) 4-Bromofluorobenzene	*93.3*			*67.0-138*		*09/19/2020 03:24*	WG1545375
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/18/2020 05:16*	WG1545111
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*09/19/2020 03:24*	WG1545375

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	245000		8450	20000	1	09/17/2020 15:03	WG1544185

Sample Narrative:

L1262257-03 WG1544185: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	21000		379	1000	1	09/16/2020 22:59	WG1543962
Nitrate	U		48.0	100	1	09/16/2020 22:59	WG1543962
Sulfate	90700		594	5000	1	09/16/2020 22:59	WG1543962

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)	8300		102	1000	1	09/18/2020 05:12	WG1544259

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	5140		48.9	100	1	09/20/2020 22:57	WG1544670
Manganese	1740		1.32	5.00	1	09/20/2020 22:57	WG1544670

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	1160		31.6	100	1	09/20/2020 14:47	WG1546048
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*78.0-120*		*09/20/2020 14:47*	WG1546048

Sample Narrative:

L1262257-03 WG1546048: No discernible 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	558		0.287	0.678	1	09/20/2020 15:10	WG1545826
Ethane	7.50		0.296	1.29	1	09/20/2020 15:10	WG1545826
Ethene	U		0.422	1.27	1	09/20/2020 15:10	WG1545826

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	J0	0.548	1.00	1	09/18/2020 05:35	WG1545111
Acrylonitrile	U	J0	0.0760	0.500	1	09/18/2020 05:35	WG1545111
Benzene	0.129		0.0160	0.0400	1	09/18/2020 05:35	WG1545111
Bromobenzene	U		0.0420	0.500	1	09/18/2020 05:35	WG1545111
Bromodichloromethane	U		0.0315	0.100	1	09/18/2020 05:35	WG1545111
Bromoform	U		0.239	1.00	1	09/18/2020 05:35	WG1545111
Bromomethane	U		0.148	0.500	1	09/18/2020 05:35	WG1545111
n-Butylbenzene	U		0.153	0.500	1	09/18/2020 05:35	WG1545111
sec-Butylbenzene	U		0.101	0.500	1	09/18/2020 05:35	WG1545111
tert-Butylbenzene	U		0.0620	0.200	1	09/18/2020 05:35	WG1545111

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Carbon tetrachloride	U		0.0432	0.200	1	09/18/2020 05:35	WG1545111
Chlorobenzene	U		0.0229	0.100	1	09/18/2020 05:35	WG1545111
Chlorodibromomethane	U		0.0180	0.100	1	09/18/2020 05:35	WG1545111
Chloroethane	U		0.0432	0.200	1	09/18/2020 05:35	WG1545111
Chloroform	U		0.0166	0.100	1	09/18/2020 05:35	WG1545111
Chloromethane	U		0.0556	0.500	1	09/18/2020 05:35	WG1545111
2-Chlorotoluene	U		0.0368	0.100	1	09/18/2020 05:35	WG1545111
4-Chlorotoluene	U		0.0452	0.200	1	09/18/2020 05:35	WG1545111
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/18/2020 05:35	WG1545111
1,2-Dibromoethane	U		0.0210	0.100	1	09/18/2020 05:35	WG1545111
Dibromomethane	U	J0	0.0400	0.200	1	09/18/2020 05:35	WG1545111
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/18/2020 05:35	WG1545111
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/18/2020 05:35	WG1545111
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/18/2020 05:35	WG1545111
Dichlorodifluoromethane	U		0.0327	0.100	1	09/18/2020 05:35	WG1545111
1,1-Dichloroethane	0.562		0.0230	0.100	1	09/18/2020 05:35	WG1545111
1,2-Dichloroethane	U	J0	0.0190	0.100	1	09/18/2020 05:35	WG1545111
1,1-Dichloroethene	6.08		0.0200	0.100	1	09/18/2020 05:35	WG1545111
cis-1,2-Dichloroethene	1440		0.552	2.00	20	09/19/2020 03:43	WG1545375
trans-1,2-Dichloroethene	5.40		0.0572	0.200	1	09/18/2020 05:35	WG1545111
1,2-Dichloropropane	U		0.0508	0.200	1	09/18/2020 05:35	WG1545111
1,1-Dichloropropene	U		0.0280	0.100	1	09/18/2020 05:35	WG1545111
1,3-Dichloropropane	U		0.0700	0.200	1	09/18/2020 05:35	WG1545111
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/18/2020 05:35	WG1545111
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/18/2020 05:35	WG1545111
2,2-Dichloropropane	U	J0	0.0317	0.100	1	09/18/2020 05:35	WG1545111
Di-isopropyl ether	U		0.0140	0.0400	1	09/18/2020 05:35	WG1545111
Ethylbenzene	U		0.0212	0.100	1	09/18/2020 05:35	WG1545111
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/18/2020 05:35	WG1545111
Isopropylbenzene	U		0.0345	0.100	1	09/18/2020 05:35	WG1545111
p-Isopropyltoluene	U		0.0932	0.200	1	09/18/2020 05:35	WG1545111
2-Butanone (MEK)	U		0.500	1.00	1	09/18/2020 05:35	WG1545111
Methylene Chloride	U		0.265	1.00	1	09/18/2020 05:35	WG1545111
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/18/2020 05:35	WG1545111
Methyl tert-butyl ether	U	J0	0.0118	0.0400	1	09/18/2020 05:35	WG1545111
Naphthalene	U		0.124	0.500	1	09/18/2020 05:35	WG1545111
n-Propylbenzene	U		0.0472	0.200	1	09/18/2020 05:35	WG1545111
Styrene	U		0.109	0.500	1	09/18/2020 05:35	WG1545111
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/18/2020 05:35	WG1545111
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/18/2020 05:35	WG1545111
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/18/2020 05:35	WG1545111
Tetrachloroethene	1070		0.560	2.00	20	09/19/2020 03:43	WG1545375
Toluene	0.270		0.0500	0.200	1	09/18/2020 05:35	WG1545111
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/18/2020 05:35	WG1545111
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/18/2020 05:35	WG1545111
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/18/2020 05:35	WG1545111
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/18/2020 05:35	WG1545111
Trichloroethene	827		0.320	0.800	20	09/19/2020 03:43	WG1545375
Trichlorofluoromethane	U		0.0200	0.100	1	09/18/2020 05:35	WG1545111
1,2,3-Trichloropropane	U		0.204	0.500	1	09/18/2020 05:35	WG1545111
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/18/2020 05:35	WG1545111
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/18/2020 05:35	WG1545111
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/18/2020 05:35	WG1545111
Vinyl chloride	7.17		0.0273	0.100	1	09/18/2020 05:35	WG1545111
Xylenes, Total	U		0.191	0.260	1	09/18/2020 05:35	WG1545111
Ethyl Ether	U	J0	0.0170	0.100	1	09/18/2020 05:35	WG1545111

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Tetrahydrofuran	0.566	J0	0.0900	0.500	1	09/18/2020 05:35	WG1545111
Iodomethane	U	J0	0.242	0.500	1	09/18/2020 05:35	WG1545111
Allyl chloride	U		0.580	1.00	1	09/18/2020 05:35	WG1545111
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/18/2020 05:35	WG1545111
(S) Toluene-d8	*114*			*75.0-131*		*09/18/2020 05:35*	WG1545111
(S) Toluene-d8	*95.3*			*75.0-131*		*09/19/2020 03:43*	WG1545375
(S) 4-Bromofluorobenzene	*92.4*			*67.0-138*		*09/18/2020 05:35*	WG1545111
(S) 4-Bromofluorobenzene	*95.8*			*67.0-138*		*09/19/2020 03:43*	WG1545375
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*		*09/18/2020 05:35*	WG1545111
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*09/19/2020 03:43*	WG1545375

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	277000		8450	20000	1	09/17/2020 15:10	WG1544185

Sample Narrative:

L1262257-04 WG1544185: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	22500		379	1000	1	09/16/2020 23:12	WG1543962
Nitrate	U		48.0	100	1	09/16/2020 23:12	WG1543962
Sulfate	26000		594	5000	1	09/16/2020 23:12	WG1543962

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)	2490	B	102	1000	1	09/18/2020 05:29	WG1544259

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	5260		48.9	100	1	09/20/2020 23:01	WG1544670
Manganese	493		1.32	5.00	1	09/20/2020 23:01	WG1544670

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	54.3	B J	31.6	100	1	09/20/2020 15:08	WG1546048
(S) a,a,a-Trifluorotoluene(FID)	*92.0*			*78.0-120*		*09/20/2020 15:08*	WG1546048

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	835		0.287	0.678	1	09/20/2020 15:15	WG1545826
Ethane	U		0.296	1.29	1	09/20/2020 15:15	WG1545826
Ethene	U		0.422	1.27	1	09/20/2020 15:15	WG1545826

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	J0	0.548	1.00	1	09/18/2020 05:54	WG1545111
Acrylonitrile	U	J0	0.0760	0.500	1	09/18/2020 05:54	WG1545111
Benzene	U		0.0160	0.0400	1	09/18/2020 05:54	WG1545111
Bromobenzene	U		0.0420	0.500	1	09/18/2020 05:54	WG1545111
Bromodichloromethane	U		0.0315	0.100	1	09/18/2020 05:54	WG1545111
Bromoform	U		0.239	1.00	1	09/18/2020 05:54	WG1545111
Bromomethane	U		0.148	0.500	1	09/18/2020 05:54	WG1545111
n-Butylbenzene	U		0.153	0.500	1	09/18/2020 05:54	WG1545111
sec-Butylbenzene	U		0.101	0.500	1	09/18/2020 05:54	WG1545111
tert-Butylbenzene	U		0.0620	0.200	1	09/18/2020 05:54	WG1545111
Carbon tetrachloride	U		0.0432	0.200	1	09/18/2020 05:54	WG1545111
Chlorobenzene	U		0.0229	0.100	1	09/18/2020 05:54	WG1545111
Chlorodibromomethane	U		0.0180	0.100	1	09/18/2020 05:54	WG1545111

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloroethane	2.79		0.0432	0.200	1	09/18/2020 05:54	WG1545111
Chloroform	U		0.0166	0.100	1	09/18/2020 05:54	WG1545111
Chloromethane	U		0.0556	0.500	1	09/18/2020 05:54	WG1545111
2-Chlorotoluene	U		0.0368	0.100	1	09/18/2020 05:54	WG1545111
4-Chlorotoluene	U		0.0452	0.200	1	09/18/2020 05:54	WG1545111
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/18/2020 05:54	WG1545111
1,2-Dibromoethane	U		0.0210	0.100	1	09/18/2020 05:54	WG1545111
Dibromomethane	U	J0	0.0400	0.200	1	09/18/2020 05:54	WG1545111
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/18/2020 05:54	WG1545111
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/18/2020 05:54	WG1545111
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/18/2020 05:54	WG1545111
Dichlorodifluoromethane	U		0.0327	0.100	1	09/18/2020 05:54	WG1545111
1,1-Dichloroethane	U		0.0230	0.100	1	09/18/2020 05:54	WG1545111
1,2-Dichloroethane	U	J0	0.0190	0.100	1	09/18/2020 05:54	WG1545111
1,1-Dichloroethene	0.0790	J	0.0200	0.100	1	09/18/2020 05:54	WG1545111
cis-1,2-Dichloroethene	7.96		0.0276	0.100	1	09/19/2020 02:46	WG1545375
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/18/2020 05:54	WG1545111
1,2-Dichloropropane	U		0.0508	0.200	1	09/18/2020 05:54	WG1545111
1,1-Dichloropropene	U		0.0280	0.100	1	09/18/2020 05:54	WG1545111
1,3-Dichloropropane	U		0.0700	0.200	1	09/18/2020 05:54	WG1545111
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/18/2020 05:54	WG1545111
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/18/2020 05:54	WG1545111
2,2-Dichloropropane	U	J0	0.0317	0.100	1	09/18/2020 05:54	WG1545111
Di-isopropyl ether	U		0.0140	0.0400	1	09/18/2020 05:54	WG1545111
Ethylbenzene	U		0.0212	0.100	1	09/18/2020 05:54	WG1545111
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/18/2020 05:54	WG1545111
Isopropylbenzene	U		0.0345	0.100	1	09/18/2020 05:54	WG1545111
p-Isopropyltoluene	U		0.0932	0.200	1	09/18/2020 05:54	WG1545111
2-Butanone (MEK)	U		0.500	1.00	1	09/18/2020 05:54	WG1545111
Methylene Chloride	U		0.265	1.00	1	09/18/2020 05:54	WG1545111
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/18/2020 05:54	WG1545111
Methyl tert-butyl ether	U	J0	0.0118	0.0400	1	09/18/2020 05:54	WG1545111
Naphthalene	U		0.124	0.500	1	09/18/2020 05:54	WG1545111
n-Propylbenzene	U		0.0472	0.200	1	09/18/2020 05:54	WG1545111
Styrene	U		0.109	0.500	1	09/18/2020 05:54	WG1545111
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/18/2020 05:54	WG1545111
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/18/2020 05:54	WG1545111
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/18/2020 05:54	WG1545111
Tetrachloroethene	0.0450	J	0.0280	0.100	1	09/19/2020 02:46	WG1545375
Toluene	1.19		0.0500	0.200	1	09/18/2020 05:54	WG1545111
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/18/2020 05:54	WG1545111
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/18/2020 05:54	WG1545111
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/18/2020 05:54	WG1545111
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/18/2020 05:54	WG1545111
Trichloroethene	0.141		0.0160	0.0400	1	09/19/2020 02:46	WG1545375
Trichlorofluoromethane	U		0.0200	0.100	1	09/18/2020 05:54	WG1545111
1,2,3-Trichloropropane	U		0.204	0.500	1	09/18/2020 05:54	WG1545111
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/18/2020 05:54	WG1545111
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/18/2020 05:54	WG1545111
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/18/2020 05:54	WG1545111
Vinyl chloride	22.6		0.0273	0.100	1	09/18/2020 05:54	WG1545111
Xylenes, Total	U		0.191	0.260	1	09/18/2020 05:54	WG1545111
Ethyl Ether	U	J0	0.0170	0.100	1	09/18/2020 05:54	WG1545111
Tetrahydrofuran	U	J0	0.0900	0.500	1	09/18/2020 05:54	WG1545111
Iodomethane	U	J0	0.242	0.500	1	09/18/2020 05:54	WG1545111
Allyl chloride	U		0.580	1.00	1	09/18/2020 05:54	WG1545111

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/18/2020 05:54	WG1545111
(S) Toluene-d8	*110*			*75.0-131*		*09/18/2020 05:54*	WG1545111
(S) Toluene-d8	*95.6*			*75.0-131*		*09/19/2020 02:46*	WG1545375
(S) 4-Bromofluorobenzene	*91.5*			*67.0-138*		*09/18/2020 05:54*	WG1545111
(S) 4-Bromofluorobenzene	*93.7*			*67.0-138*		*09/19/2020 02:46*	WG1545375
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*09/18/2020 05:54*	WG1545111
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*09/19/2020 02:46*	WG1545375

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	284000		8450	20000	1	09/17/2020 15:18	WG1544185

Sample Narrative:

L1262257-05 WG1544185: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	26500		379	1000	1	09/16/2020 23:25	WG1543962
Nitrate	U		48.0	100	1	09/16/2020 23:25	WG1543962
Sulfate	57600		594	5000	1	09/16/2020 23:25	WG1543962

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)	2370		102	1000	1	09/18/2020 13:54	WG1545290

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	5320		48.9	100	1	09/20/2020 23:23	WG1544670
Manganese	2120		1.32	5.00	1	09/20/2020 23:23	WG1544670

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	648		31.6	100	1	09/20/2020 15:29	WG1546048
(S) a,a,a-Trifluorotoluene(FID)	*91.7*			*78.0-120*		*09/20/2020 15:29*	WG1546048

Sample Narrative:

L1262257-05 WG1546048: No discernible 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	3010		0.287	0.678	1	09/20/2020 15:18	WG1545826
Ethane	U		0.296	1.29	1	09/20/2020 15:18	WG1545826
Ethene	69.9		0.422	1.27	1	09/20/2020 15:18	WG1545826

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	J0	0.548	1.00	1	09/18/2020 06:12	WG1545111
Acrylonitrile	U	J0	0.0760	0.500	1	09/18/2020 06:12	WG1545111
Benzene	0.0900		0.0160	0.0400	1	09/18/2020 06:12	WG1545111
Bromobenzene	U		0.0420	0.500	1	09/18/2020 06:12	WG1545111
Bromodichloromethane	U		0.0315	0.100	1	09/18/2020 06:12	WG1545111
Bromoform	U		0.239	1.00	1	09/18/2020 06:12	WG1545111
Bromomethane	U		0.148	0.500	1	09/18/2020 06:12	WG1545111
n-Butylbenzene	U		0.153	0.500	1	09/18/2020 06:12	WG1545111
sec-Butylbenzene	U		0.101	0.500	1	09/18/2020 06:12	WG1545111
tert-Butylbenzene	U		0.0620	0.200	1	09/18/2020 06:12	WG1545111

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Carbon tetrachloride	U		0.0432	0.200	1	09/18/2020 06:12	WG1545111
Chlorobenzene	U		0.0229	0.100	1	09/18/2020 06:12	WG1545111
Chlorodibromomethane	U		0.0180	0.100	1	09/18/2020 06:12	WG1545111
Chloroethane	U		0.0432	0.200	1	09/18/2020 06:12	WG1545111
Chloroform	U		0.0166	0.100	1	09/18/2020 06:12	WG1545111
Chloromethane	U		0.0556	0.500	1	09/18/2020 06:12	WG1545111
2-Chlorotoluene	U		0.0368	0.100	1	09/18/2020 06:12	WG1545111
4-Chlorotoluene	U		0.0452	0.200	1	09/18/2020 06:12	WG1545111
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/18/2020 06:12	WG1545111
1,2-Dibromoethane	U		0.0210	0.100	1	09/18/2020 06:12	WG1545111
Dibromomethane	U	J0	0.0400	0.200	1	09/18/2020 06:12	WG1545111
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/18/2020 06:12	WG1545111
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/18/2020 06:12	WG1545111
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/18/2020 06:12	WG1545111
Dichlorodifluoromethane	U		0.0327	0.100	1	09/18/2020 06:12	WG1545111
1,1-Dichloroethane	U		0.0230	0.100	1	09/18/2020 06:12	WG1545111
1,2-Dichloroethane	U	J0	0.0190	0.100	1	09/18/2020 06:12	WG1545111
1,1-Dichloroethene	4.68		0.0200	0.100	1	09/18/2020 06:12	WG1545111
cis-1,2-Dichloroethene	1400		0.690	2.50	25	09/19/2020 04:02	WG1545375
trans-1,2-Dichloroethene	2.49		0.0572	0.200	1	09/18/2020 06:12	WG1545111
1,2-Dichloropropane	U		0.0508	0.200	1	09/18/2020 06:12	WG1545111
1,1-Dichloropropene	U		0.0280	0.100	1	09/18/2020 06:12	WG1545111
1,3-Dichloropropane	U		0.0700	0.200	1	09/18/2020 06:12	WG1545111
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/18/2020 06:12	WG1545111
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/18/2020 06:12	WG1545111
2,2-Dichloropropane	U	J0	0.0317	0.100	1	09/18/2020 06:12	WG1545111
Di-isopropyl ether	U		0.0140	0.0400	1	09/18/2020 06:12	WG1545111
Ethylbenzene	U		0.0212	0.100	1	09/18/2020 06:12	WG1545111
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/18/2020 06:12	WG1545111
Isopropylbenzene	U		0.0345	0.100	1	09/18/2020 06:12	WG1545111
p-Isopropyltoluene	U		0.0932	0.200	1	09/18/2020 06:12	WG1545111
2-Butanone (MEK)	U		0.500	1.00	1	09/18/2020 06:12	WG1545111
Methylene Chloride	U		0.265	1.00	1	09/18/2020 06:12	WG1545111
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/18/2020 06:12	WG1545111
Methyl tert-butyl ether	U	J0	0.0118	0.0400	1	09/18/2020 06:12	WG1545111
Naphthalene	U		0.124	0.500	1	09/18/2020 06:12	WG1545111
n-Propylbenzene	U		0.0472	0.200	1	09/18/2020 06:12	WG1545111
Styrene	U		0.109	0.500	1	09/18/2020 06:12	WG1545111
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/18/2020 06:12	WG1545111
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/18/2020 06:12	WG1545111
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/18/2020 06:12	WG1545111
Tetrachloroethene	U		0.700	2.50	25	09/19/2020 04:02	WG1545375
Toluene	0.403		0.0500	0.200	1	09/18/2020 06:12	WG1545111
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/18/2020 06:12	WG1545111
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/18/2020 06:12	WG1545111
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/18/2020 06:12	WG1545111
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/18/2020 06:12	WG1545111
Trichloroethene	2.46		0.0160	0.0400	1	09/18/2020 06:12	WG1545111
Trichlorofluoromethane	U		0.0200	0.100	1	09/18/2020 06:12	WG1545111
1,2,3-Trichloropropane	U		0.204	0.500	1	09/18/2020 06:12	WG1545111
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/18/2020 06:12	WG1545111
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/18/2020 06:12	WG1545111
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/18/2020 06:12	WG1545111
Vinyl chloride	1270		0.682	2.50	25	09/19/2020 04:02	WG1545375
Xylenes, Total	U		0.191	0.260	1	09/18/2020 06:12	WG1545111
Ethyl Ether	U	J0	0.0170	0.100	1	09/18/2020 06:12	WG1545111

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Tetrahydrofuran	0.319	J J0	0.0900	0.500	1	09/18/2020 06:12	WG1545111
Iodomethane	U	J0	0.242	0.500	1	09/18/2020 06:12	WG1545111
Allyl chloride	U		0.580	1.00	1	09/18/2020 06:12	WG1545111
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/18/2020 06:12	WG1545111
(S) Toluene-d8	*114*			*75.0-131*		*09/18/2020 06:12*	WG1545111
(S) Toluene-d8	*94.4*			*75.0-131*		*09/19/2020 04:02*	WG1545375
(S) 4-Bromofluorobenzene	*91.5*			*67.0-138*		*09/18/2020 06:12*	WG1545111
(S) 4-Bromofluorobenzene	*92.3*			*67.0-138*		*09/19/2020 04:02*	WG1545375
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/18/2020 06:12*	WG1545111
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*09/19/2020 04:02*	WG1545375

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	144000		8450	20000	1	09/17/2020 15:36	WG1544185

Sample Narrative:

L1262257-06 WG1544185: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	99500		379	1000	1	09/17/2020 00:16	WG1543962
Nitrate	U		48.0	100	1	09/17/2020 00:16	WG1543962
Sulfate	79400		594	5000	1	09/17/2020 00:16	WG1543962

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)	6390		102	1000	1	09/18/2020 14:23	WG1545290

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2110		48.9	100	1	09/20/2020 23:27	WG1544670
Manganese	462		1.32	5.00	1	09/20/2020 23:27	WG1544670

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	50.1	B J	31.6	100	1	09/20/2020 15:50	WG1546048
(S) a,a,a-Trifluorotoluene(FID)	*91.5*			*78.0-120*		*09/20/2020 15:50*	WG1546048

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	906		0.287	0.678	1	09/20/2020 15:20	WG1545826
Ethane	U		0.296	1.29	1	09/20/2020 15:20	WG1545826
Ethene	U		0.422	1.27	1	09/20/2020 15:20	WG1545826

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	0.704	J	0.548	1.00	1	09/24/2020 15:43	WG1547998
Acrylonitrile	U		0.0760	0.500	1	09/24/2020 15:43	WG1547998
Benzene	0.0250	J	0.0160	0.0400	1	09/24/2020 15:43	WG1547998
Bromobenzene	U		0.0420	0.500	1	09/24/2020 15:43	WG1547998
Bromodichloromethane	U		0.0315	0.100	1	09/24/2020 15:43	WG1547998
Bromoform	U		0.239	1.00	1	09/24/2020 15:43	WG1547998
Bromomethane	U	J0	0.148	0.500	1	09/24/2020 15:43	WG1547998
n-Butylbenzene	U		0.153	0.500	1	09/24/2020 15:43	WG1547998
sec-Butylbenzene	U		0.101	0.500	1	09/24/2020 15:43	WG1547998
tert-Butylbenzene	U		0.0620	0.200	1	09/24/2020 15:43	WG1547998
Carbon tetrachloride	U		0.0432	0.200	1	09/24/2020 15:43	WG1547998
Chlorobenzene	U		0.0229	0.100	1	09/24/2020 15:43	WG1547998
Chlorodibromomethane	U		0.0180	0.100	1	09/24/2020 15:43	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloroethane	U	J0	0.0432	0.200	1	09/24/2020 15:43	WG1547998
Chloroform	U		0.0166	0.100	1	09/24/2020 15:43	WG1547998
Chloromethane	U	J0	0.0556	0.500	1	09/24/2020 15:43	WG1547998
2-Chlorotoluene	U		0.0368	0.100	1	09/24/2020 15:43	WG1547998
4-Chlorotoluene	U		0.0452	0.200	1	09/24/2020 15:43	WG1547998
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/24/2020 15:43	WG1547998
1,2-Dibromoethane	U		0.0210	0.100	1	09/24/2020 15:43	WG1547998
Dibromomethane	U		0.0400	0.200	1	09/24/2020 15:43	WG1547998
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/24/2020 15:43	WG1547998
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/24/2020 15:43	WG1547998
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/24/2020 15:43	WG1547998
Dichlorodifluoromethane	U		0.0327	0.100	1	09/24/2020 15:43	WG1547998
1,1-Dichloroethane	U		0.0230	0.100	1	09/24/2020 15:43	WG1547998
1,2-Dichloroethane	U		0.0190	0.100	1	09/24/2020 15:43	WG1547998
1,1-Dichloroethene	0.0420	J	0.0200	0.100	1	09/24/2020 15:43	WG1547998
cis-1,2-Dichloroethene	5.03		0.0276	0.100	1	09/24/2020 15:43	WG1547998
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/24/2020 15:43	WG1547998
1,2-Dichloropropane	U		0.0508	0.200	1	09/24/2020 15:43	WG1547998
1,1-Dichloropropene	U		0.0280	0.100	1	09/24/2020 15:43	WG1547998
1,3-Dichloropropane	U		0.0700	0.200	1	09/24/2020 15:43	WG1547998
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/24/2020 15:43	WG1547998
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/24/2020 15:43	WG1547998
2,2-Dichloropropane	U		0.0317	0.100	1	09/24/2020 15:43	WG1547998
Di-isopropyl ether	U		0.0140	0.0400	1	09/24/2020 15:43	WG1547998
Ethylbenzene	0.0230	J	0.0212	0.100	1	09/24/2020 15:43	WG1547998
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/24/2020 15:43	WG1547998
Isopropylbenzene	U		0.0345	0.100	1	09/24/2020 15:43	WG1547998
p-Isopropyltoluene	U		0.0932	0.200	1	09/24/2020 15:43	WG1547998
2-Butanone (MEK)	U		0.500	1.00	1	09/24/2020 15:43	WG1547998
Methylene Chloride	U		0.265	1.00	1	09/24/2020 15:43	WG1547998
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/24/2020 15:43	WG1547998
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/24/2020 15:43	WG1547998
Naphthalene	U		0.124	0.500	1	09/24/2020 15:43	WG1547998
n-Propylbenzene	U		0.0472	0.200	1	09/24/2020 15:43	WG1547998
Styrene	U		0.109	0.500	1	09/24/2020 15:43	WG1547998
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/24/2020 15:43	WG1547998
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/24/2020 15:43	WG1547998
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/24/2020 15:43	WG1547998
Tetrachloroethene	0.158		0.0280	0.100	1	09/24/2020 15:43	WG1547998
Toluene	1.57		0.0500	0.200	1	09/24/2020 15:43	WG1547998
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/24/2020 15:43	WG1547998
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/24/2020 15:43	WG1547998
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/24/2020 15:43	WG1547998
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/24/2020 15:43	WG1547998
Trichloroethene	0.312		0.0160	0.0400	1	09/24/2020 15:43	WG1547998
Trichlorofluoromethane	U	J0	0.0200	0.100	1	09/24/2020 15:43	WG1547998
1,2,3-Trichloropropane	U		0.204	0.500	1	09/24/2020 15:43	WG1547998
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/24/2020 15:43	WG1547998
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/24/2020 15:43	WG1547998
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/24/2020 15:43	WG1547998
Vinyl chloride	30.6	J0	0.0273	0.100	1	09/24/2020 15:43	WG1547998
Xylenes, Total	U		0.191	0.260	1	09/24/2020 15:43	WG1547998
Ethyl Ether	U		0.0170	0.100	1	09/24/2020 15:43	WG1547998
Tetrahydrofuran	U		0.0900	0.500	1	09/24/2020 15:43	WG1547998
Iodomethane	U		0.242	0.500	1	09/24/2020 15:43	WG1547998
Allyl chloride	U		0.580	1.00	1	09/24/2020 15:43	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Trans-1,4-Dichloro-2-butene	0.0570	J J0	0.0560	0.200	1	09/24/2020 15:43	WG1547998
(S) Toluene-d8	*112*			*75.0-131*		*09/24/2020 15:43*	WG1547998
(S) 4-Bromofluorobenzene	*90.5*			*67.0-138*		*09/24/2020 15:43*	WG1547998
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*09/24/2020 15:43*	WG1547998

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	95700		8450	20000	1	09/17/2020 15:45	WG1544185

Sample Narrative:
L1262257-07 WG1544185: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	92400		379	1000	1	09/17/2020 00:42	WG1543962
Nitrate	U		48.0	100	1	09/17/2020 00:42	WG1543962
Sulfate	85800		594	5000	1	09/17/2020 00:42	WG1543962

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)	18100		102	1000	1	09/18/2020 14:37	WG1545290

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	15400		48.9	100	1	09/20/2020 23:31	WG1544670
Manganese	1070		1.32	5.00	1	09/20/2020 23:31	WG1544670

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	52.5	B J	31.6	100	1	09/20/2020 16:10	WG1546048
(S) a,a,a-Trifluorotoluene(FID)	*92.5*			*78.0-120*		*09/20/2020 16:10*	WG1546048

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	1260		0.287	0.678	1	09/20/2020 15:24	WG1545826
Ethane	U		0.296	1.29	1	09/20/2020 15:24	WG1545826
Ethene	8.21		0.422	1.27	1	09/20/2020 15:24	WG1545826

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	0.701	J	0.548	1.00	1	09/24/2020 16:02	WG1547998
Acrylonitrile	U		0.0760	0.500	1	09/24/2020 16:02	WG1547998
Benzene	0.0310	J	0.0160	0.0400	1	09/24/2020 16:02	WG1547998
Bromobenzene	U		0.0420	0.500	1	09/24/2020 16:02	WG1547998
Bromodichloromethane	U		0.0315	0.100	1	09/24/2020 16:02	WG1547998
Bromoform	U		0.239	1.00	1	09/24/2020 16:02	WG1547998
Bromomethane	U	J0	0.148	0.500	1	09/24/2020 16:02	WG1547998
n-Butylbenzene	U		0.153	0.500	1	09/24/2020 16:02	WG1547998
sec-Butylbenzene	U		0.101	0.500	1	09/24/2020 16:02	WG1547998
tert-Butylbenzene	U		0.0620	0.200	1	09/24/2020 16:02	WG1547998
Carbon tetrachloride	U		0.0432	0.200	1	09/24/2020 16:02	WG1547998
Chlorobenzene	U		0.0229	0.100	1	09/24/2020 16:02	WG1547998
Chlorodibromomethane	U		0.0180	0.100	1	09/24/2020 16:02	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloroethane	1.24	J0	0.0432	0.200	1	09/24/2020 16:02	WG1547998
Chloroform	0.0170	J	0.0166	0.100	1	09/24/2020 16:02	WG1547998
Chloromethane	U	J0	0.0556	0.500	1	09/24/2020 16:02	WG1547998
2-Chlorotoluene	U		0.0368	0.100	1	09/24/2020 16:02	WG1547998
4-Chlorotoluene	U		0.0452	0.200	1	09/24/2020 16:02	WG1547998
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/24/2020 16:02	WG1547998
1,2-Dibromoethane	U		0.0210	0.100	1	09/24/2020 16:02	WG1547998
Dibromomethane	U		0.0400	0.200	1	09/24/2020 16:02	WG1547998
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/24/2020 16:02	WG1547998
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/24/2020 16:02	WG1547998
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/24/2020 16:02	WG1547998
Dichlorodifluoromethane	U		0.0327	0.100	1	09/24/2020 16:02	WG1547998
1,1-Dichloroethane	U		0.0230	0.100	1	09/24/2020 16:02	WG1547998
1,2-Dichloroethane	U		0.0190	0.100	1	09/24/2020 16:02	WG1547998
1,1-Dichloroethene	0.0500	J	0.0200	0.100	1	09/24/2020 16:02	WG1547998
cis-1,2-Dichloroethene	9.92		0.0276	0.100	1	09/24/2020 16:02	WG1547998
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/24/2020 16:02	WG1547998
1,2-Dichloropropane	U		0.0508	0.200	1	09/24/2020 16:02	WG1547998
1,1-Dichloropropene	U		0.0280	0.100	1	09/24/2020 16:02	WG1547998
1,3-Dichloropropane	U		0.0700	0.200	1	09/24/2020 16:02	WG1547998
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/24/2020 16:02	WG1547998
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/24/2020 16:02	WG1547998
2,2-Dichloropropane	U		0.0317	0.100	1	09/24/2020 16:02	WG1547998
Di-isopropyl ether	U		0.0140	0.0400	1	09/24/2020 16:02	WG1547998
Ethylbenzene	0.0230	J	0.0212	0.100	1	09/24/2020 16:02	WG1547998
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/24/2020 16:02	WG1547998
Isopropylbenzene	U		0.0345	0.100	1	09/24/2020 16:02	WG1547998
p-Isopropyltoluene	U		0.0932	0.200	1	09/24/2020 16:02	WG1547998
2-Butanone (MEK)	U		0.500	1.00	1	09/24/2020 16:02	WG1547998
Methylene Chloride	U		0.265	1.00	1	09/24/2020 16:02	WG1547998
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/24/2020 16:02	WG1547998
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/24/2020 16:02	WG1547998
Naphthalene	U		0.124	0.500	1	09/24/2020 16:02	WG1547998
n-Propylbenzene	U		0.0472	0.200	1	09/24/2020 16:02	WG1547998
Styrene	U		0.109	0.500	1	09/24/2020 16:02	WG1547998
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/24/2020 16:02	WG1547998
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/24/2020 16:02	WG1547998
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/24/2020 16:02	WG1547998
Tetrachloroethene	0.187		0.0280	0.100	1	09/24/2020 16:02	WG1547998
Toluene	1.64		0.0500	0.200	1	09/24/2020 16:02	WG1547998
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/24/2020 16:02	WG1547998
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/24/2020 16:02	WG1547998
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/24/2020 16:02	WG1547998
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/24/2020 16:02	WG1547998
Trichloroethene	0.252		0.0160	0.0400	1	09/24/2020 16:02	WG1547998
Trichlorofluoromethane	U	J0	0.0200	0.100	1	09/24/2020 16:02	WG1547998
1,2,3-Trichloropropane	U		0.204	0.500	1	09/24/2020 16:02	WG1547998
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/24/2020 16:02	WG1547998
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/24/2020 16:02	WG1547998
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/24/2020 16:02	WG1547998
Vinyl chloride	7.99	J0	0.0273	0.100	1	09/24/2020 16:02	WG1547998
Xylenes, Total	U		0.191	0.260	1	09/24/2020 16:02	WG1547998
Ethyl Ether	U		0.0170	0.100	1	09/24/2020 16:02	WG1547998
Tetrahydrofuran	U		0.0900	0.500	1	09/24/2020 16:02	WG1547998
Iodomethane	U		0.242	0.500	1	09/24/2020 16:02	WG1547998
Allyl chloride	U		0.580	1.00	1	09/24/2020 16:02	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/24/2020 16:02	WG1547998
(S) Toluene-d8	*110*			*75.0-131*		*09/24/2020 16:02*	WG1547998
(S) 4-Bromofluorobenzene	*87.6*			*67.0-138*		*09/24/2020 16:02*	WG1547998
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*09/24/2020 16:02*	WG1547998

Method Blank (MB)

(MB) R3571661-1 09/17/20 12:02

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Alkalinity	U		8450	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1262193-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1262193-04 09/17/20 12:51 • (DUP) R3571661-2 09/17/20 13:01

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	437000	437000	1	0.127		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1262298-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1262298-02 09/17/20 16:08 • (DUP) R3571661-4 09/17/20 16:23

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	44300	44200	1	0.102		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3571661-3 09/17/20 13:38

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	98800	98.8	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R3572356-1 09/16/20 17:43

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

L1262257-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1262257-01 09/16/20 21:56 • (DUP) R3572356-6 09/16/20 22:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	31900	32300	1	0.998		15
Nitrate	U	U	1	0.000		15
Sulfate	6280	6360	1	1.22		15

L1262569-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1262569-05 09/17/20 02:36 • (DUP) R3572356-9 09/17/20 02:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	U	U	1	0.000		15
Nitrate	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3572356-2 09/16/20 17:55

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Chloride	40000	41000	103	80.0-120	
Nitrate	8000	8760	109	80.0-120	
Sulfate	40000	43100	108	80.0-120	

L1262257-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1262257-02 09/16/20 22:21 • (MS) R3572356-7 09/16/20 22:34 • (MSD) R3572356-8 09/16/20 22:47

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	27600	79300	80600	103	106	1	80.0-120			1.70	15
Nitrate	5000	U	5250	5370	105	107	1	80.0-120			2.27	15
Sulfate	50000	63400	116000	118000	106	109	1	80.0-120	E	E	1.49	15

L1262569-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1262569-05 09/17/20 02:36 • (MS) R3572356-10 09/17/20 03:02

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	U	50500	101	1	80.0-120	
Nitrate	5000	U	5300	106	1	80.0-120	
Sulfate	50000	U	52300	105	1	80.0-120	

Method Blank (MB)

(MB) R3571802-1 09/17/20 18:19

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	447	J	102	1000

L1261818-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1261818-04 09/17/20 19:48 • (DUP) R3571802-3 09/17/20 20:02

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	2060	1890	1	8.26		20

L1262253-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1262253-09 09/18/20 03:23 • (DUP) R3571802-8 09/18/20 03:39

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	975	876	1	10.6	J	20

Laboratory Control Sample (LCS)

(LCS) R3571802-2 09/17/20 18:58

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	75600	101	85.0-115	

L1261818-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1261818-05 09/17/20 20:22 • (MS) R3571802-4 09/17/20 20:44 • (MSD) R3571802-5 09/17/20 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 %
TOC (Total Organic Carbon)	50000	29700	77300	79200	95.2	99.0	1	80.0-120			2.47	20

L1262253-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1262253-02 09/17/20 23:23 • (MS) R3571802-6 09/17/20 23:47 • (MSD) R3571802-7 09/18/20 00:11

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 (Total Organic Carbon)	50000	2630	50400	53400	95.5	102	1	80.0-120			5.86	20

Method Blank (MB)

(MB) R3572252-1 09/18/20 11:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	199	J	102	1000

L1262257-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1262257-05 09/18/20 13:54 • (DUP) R3572252-3 09/18/20 14:08

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	2370	2370	1	0.296		20

L1263126-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1263126-07 09/18/20 20:12 • (DUP) R3572252-8 09/18/20 20:25

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	1180	1210	1	2.34		20

Laboratory Control Sample (LCS)

(LCS) R3572252-2 09/18/20 12:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	74400	99.2	85.0-115	

L1262739-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1262739-06 09/18/20 16:00 • (MS) R3572252-4 09/18/20 16:15 • (MSD) R3572252-5 09/18/20 16:30

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 %
TOC (Total Organic Carbon)	50000	3050	52200	53200	98.4	100	1	80.0-120			1.90	20

L1262739-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1262739-09 09/18/20 17:12 • (MS) R3572252-6 09/18/20 17:26 • (MSD) R3572252-7 09/18/20 17:41

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 (Total Organic Carbon)	50000	1360	49700	51300	96.7	99.8	1	80.0-120			3.11	20

Method Blank (MB)

(MB) R3572550-1 09/20/20 22:28

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

Laboratory Control Sample (LCS)

(LCS) R3572550-2 09/20/20 22:31

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	5000	5010	100	80.0-120	
Manganese	50.0	48.6	97.1	80.0-120	

L1262708-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1262708-04 09/20/20 22:35 • (MS) R3572550-4 09/20/20 22:42 • (MSD) R3572550-5 09/20/20 22:46

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	478	5130	5010	93.0	90.6	1	75.0-125			2.36	20
Manganese	50.0	1260	1360	1330	194	122	1	75.0-125	V		2.69	20

Method Blank (MB)

(MB) R3573293-2 09/20/20 12:37

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	36.6	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	*91.9*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3573293-1 09/20/20 11:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	6350	115	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*108*	*78.0-120*	

L1262257-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1262257-01 09/20/20 14:06 • (MS) R3573293-3 09/20/20 20:19 • (MSD) R3573293-4 09/20/20 20:40

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	40.4	5240	5180	94.5	93.4	1	10.0-155			1.15	21
(S) a,a,a-Trifluorotoluene(FID)					*104*	*103*		*78.0-120*				

Method Blank (MB)

(MB) R3572427-2 09/20/20 14:02

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

L1262253-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1262253-11 09/20/20 14:50 • (DUP) R3572427-3 09/20/20 14:56

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
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)

(LCS) R3572427-1 09/20/20 13:58

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Methane	67.8	66.3	97.8	85.0-115	
Ethane	129	126	97.7	85.0-115	
Ethene	127	121	95.3	85.0-115	

Method Blank (MB)

(MB) R3571902-2 09/17/20 22:05

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00

Method Blank (MB)

(MB) R3571902-2 09/17/20 22:05

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*114*			*75.0-131*
(S) 4-Bromofluorobenzene	*87.8*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*85.1*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3571902-1 09/17/20 21:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	6.82	27.3	10.0-160	
Acrylonitrile	25.0	14.0	56.0	45.0-153	
Benzene	5.00	4.52	90.4	70.0-123	
Bromobenzene	5.00	5.27	105	73.0-121	
Bromodichloromethane	5.00	4.34	86.8	73.0-121	
Bromoform	5.00	4.26	85.2	64.0-132	
Bromomethane	5.00	4.99	99.8	56.0-147	
n-Butylbenzene	5.00	5.01	100	68.0-135	
sec-Butylbenzene	5.00	5.82	116	74.0-130	
tert-Butylbenzene	5.00	5.42	108	75.0-127	
Carbon tetrachloride	5.00	4.70	94.0	66.0-128	
Chlorobenzene	5.00	4.80	96.0	76.0-128	
Chlorodibromomethane	5.00	4.75	95.0	74.0-127	
Chloroethane	5.00	5.17	103	61.0-134	
Chloroform	5.00	4.32	86.4	72.0-123	
Chloromethane	5.00	4.86	97.2	51.0-138	
2-Chlorotoluene	5.00	4.73	94.6	75.0-124	
4-Chlorotoluene	5.00	4.99	99.8	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	4.19	83.8	59.0-130	
1,2-Dibromoethane	5.00	4.82	96.4	74.0-128	
Dibromomethane	5.00	4.25	85.0	75.0-122	
1,2-Dichlorobenzene	5.00	4.78	95.6	76.0-124	
1,3-Dichlorobenzene	5.00	5.07	101	76.0-125	
1,4-Dichlorobenzene	5.00	4.77	95.4	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	5.29	106	45.0-143	
Dichlorodifluoromethane	5.00	4.68	93.6	43.0-156	
1,1-Dichloroethane	5.00	4.42	88.4	70.0-127	
1,2-Dichloroethane	5.00	3.91	78.2	65.0-131	
1,1-Dichloroethene	5.00	5.04	101	65.0-131	
trans-1,2-Dichloroethene	5.00	4.68	93.6	71.0-125	
1,2-Dichloropropane	5.00	4.52	90.4	74.0-125	
1,1-Dichloropropene	5.00	4.66	93.2	73.0-125	
1,3-Dichloropropane	5.00	4.46	89.2	80.0-125	
cis-1,3-Dichloropropene	5.00	4.50	90.0	76.0-127	
trans-1,3-Dichloropropene	5.00	4.84	96.8	73.0-127	
2,2-Dichloropropane	5.00	3.85	77.0	59.0-135	
Di-isopropyl ether	5.00	4.28	85.6	60.0-136	
Ethylbenzene	5.00	4.75	95.0	74.0-126	
Ethyl ether	5.00	4.35	87.0	64.0-137	
Hexachloro-1,3-butadiene	5.00	5.85	117	57.0-150	

Laboratory Control Sample (LCS)

(LCS) R3571902-1 09/17/20 21:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iodomethane	25.0	20.7	82.8	74.0-134	
Isopropylbenzene	5.00	4.64	92.8	72.0-127	
p-Isopropyltoluene	5.00	5.50	110	72.0-133	
2-Butanone (MEK)	25.0	21.1	84.4	30.0-160	
Methylene Chloride	5.00	4.36	87.2	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	22.4	89.6	56.0-143	
Methyl tert-butyl ether	5.00	3.58	71.6	66.0-132	
Naphthalene	5.00	4.82	96.4	59.0-130	
n-Propylbenzene	5.00	5.29	106	74.0-126	
Styrene	5.00	4.67	93.4	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	4.68	93.6	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	5.18	104	68.0-128	
Tetrachloroethene	5.00	5.30	106	70.0-136	
Tetrahydrofuran	5.00	3.81	76.2	37.0-146	
Toluene	5.00	5.21	104	75.0-121	
1,1,2-Trichlorotrifluoroethane	5.00	5.48	110	61.0-139	
1,2,3-Trichlorobenzene	5.00	5.06	101	59.0-139	
1,2,4-Trichlorobenzene	5.00	4.46	89.2	62.0-137	
1,1,1-Trichloroethane	5.00	4.30	86.0	69.0-126	
1,1,2-Trichloroethane	5.00	5.04	101	78.0-123	
Trichloroethene	5.00	4.59	91.8	76.0-126	
Trichlorofluoromethane	5.00	4.73	94.6	61.0-142	
1,2,3-Trichloropropane	5.00	4.45	89.0	67.0-129	
1,2,3-Trimethylbenzene	5.00	6.02	120	74.0-124	
1,2,4-Trimethylbenzene	5.00	5.12	102	70.0-126	
1,3,5-Trimethylbenzene	5.00	5.20	104	73.0-127	
Vinyl chloride	5.00	4.96	99.2	63.0-134	
Xylenes, Total	15.0	14.6	97.3	72.0-127	
Allyl chloride	25.0	24.5	98.0	70.0-131	
(S) Toluene-d8			*110*	*75.0-131*	
(S) 4-Bromofluorobenzene			*90.7*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*91.4*	*70.0-130*	

Method Blank (MB)

(MB) R3573067-2 09/19/20 00:51

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Tetrachloroethene	U		0.0280	0.100
Trichloroethene	U		0.0160	0.0400
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*94.9*			*75.0-131*
(S) 4-Bromofluorobenzene	*96.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*121*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3573067-1 09/19/20 00:13

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	5.00	5.07	101	73.0-125	
Tetrachloroethene	5.00	5.23	105	70.0-136	
Trichloroethene	5.00	5.70	114	76.0-126	
Vinyl chloride	5.00	4.69	93.8	63.0-134	
(S) Toluene-d8			*95.6*	*75.0-131*	
(S) 4-Bromofluorobenzene			*97.1*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*121*	*70.0-130*	

Method Blank (MB)

(MB) R3574139-2 09/24/20 10:14

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

Method Blank (MB)

(MB) R3574139-2 09/24/20 10:14

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*109*			*75.0-131*
(S) 4-Bromofluorobenzene	*94.3*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3574139-1 09/24/20 09:35

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	26.8	107	10.0-160	
Acrylonitrile	25.0	26.1	104	45.0-153	
Benzene	5.00	4.51	90.2	70.0-123	
Bromobenzene	5.00	4.96	99.2	73.0-121	
Bromodichloromethane	5.00	4.63	92.6	73.0-121	
Bromoform	5.00	4.83	96.6	64.0-132	
Bromomethane	5.00	3.74	74.8	56.0-147	
n-Butylbenzene	5.00	5.18	104	68.0-135	
sec-Butylbenzene	5.00	5.73	115	74.0-130	
tert-Butylbenzene	5.00	5.31	106	75.0-127	
Carbon tetrachloride	5.00	4.48	89.6	66.0-128	
Chlorobenzene	5.00	5.05	101	76.0-128	
Chlorodibromomethane	5.00	5.14	103	74.0-127	
Chloroethane	5.00	3.89	77.8	61.0-134	
Chloroform	5.00	4.47	89.4	72.0-123	
Chloromethane	5.00	3.96	79.2	51.0-138	
2-Chlorotoluene	5.00	5.10	102	75.0-124	
4-Chlorotoluene	5.00	4.88	97.6	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	5.40	108	59.0-130	
1,2-Dibromoethane	5.00	5.29	106	74.0-128	
Dibromomethane	5.00	4.80	96.0	75.0-122	
1,2-Dichlorobenzene	5.00	5.21	104	76.0-124	
1,3-Dichlorobenzene	5.00	5.17	103	76.0-125	
1,4-Dichlorobenzene	5.00	5.07	101	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	6.60	132	45.0-143	
Dichlorodifluoromethane	5.00	4.21	84.2	43.0-156	
1,1-Dichloroethane	5.00	4.46	89.2	70.0-127	
1,2-Dichloroethane	5.00	4.75	95.0	65.0-131	
1,1-Dichloroethene	5.00	4.68	93.6	65.0-131	
cis-1,2-Dichloroethene	5.00	4.21	84.2	73.0-125	
trans-1,2-Dichloroethene	5.00	4.32	86.4	71.0-125	
1,2-Dichloropropane	5.00	4.71	94.2	74.0-125	
1,1-Dichloropropene	5.00	4.39	87.8	73.0-125	
1,3-Dichloropropane	5.00	5.16	103	80.0-125	
cis-1,3-Dichloropropene	5.00	4.46	89.2	76.0-127	
trans-1,3-Dichloropropene	5.00	5.50	110	73.0-127	
2,2-Dichloropropane	5.00	4.17	83.4	59.0-135	
Di-isopropyl ether	5.00	4.96	99.2	60.0-136	
Ethylbenzene	5.00	5.14	103	74.0-126	
Ethyl ether	5.00	5.08	102	64.0-137	

Laboratory Control Sample (LCS)

(LCS) R3574139-1 09/24/20 09:35

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexachloro-1,3-butadiene	5.00	5.21	104	57.0-150	
Iodomethane	25.0	21.3	85.2	74.0-134	
Isopropylbenzene	5.00	4.71	94.2	72.0-127	
p-Isopropyltoluene	5.00	5.37	107	72.0-133	
2-Butanone (MEK)	25.0	33.6	134	30.0-160	
Methylene Chloride	5.00	4.54	90.8	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	33.6	134	56.0-143	
Methyl tert-butyl ether	5.00	4.51	90.2	66.0-132	
Naphthalene	5.00	5.20	104	59.0-130	
n-Propylbenzene	5.00	5.10	102	74.0-126	
Styrene	5.00	4.97	99.4	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	5.42	108	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	6.10	122	68.0-128	
Tetrachloroethene	5.00	4.84	96.8	70.0-136	
Tetrahydrofuran	5.00	6.08	122	37.0-146	
Toluene	5.00	5.18	104	75.0-121	
1,1,2-Trichlorotrifluoroethane	5.00	5.14	103	61.0-139	
1,2,3-Trichlorobenzene	5.00	5.14	103	59.0-139	
1,2,4-Trichlorobenzene	5.00	5.06	101	62.0-137	
1,1,1-Trichloroethane	5.00	4.23	84.6	69.0-126	
1,1,2-Trichloroethane	5.00	5.14	103	78.0-123	
Trichloroethene	5.00	4.37	87.4	76.0-126	
Trichlorofluoromethane	5.00	3.96	79.2	61.0-142	
1,2,3-Trichloropropane	5.00	5.09	102	67.0-129	
1,2,3-Trimethylbenzene	5.00	5.14	103	74.0-124	
1,2,4-Trimethylbenzene	5.00	5.18	104	70.0-126	
1,3,5-Trimethylbenzene	5.00	5.18	104	73.0-127	
Vinyl chloride	5.00	3.83	76.6	63.0-134	
Xylenes, Total	15.0	15.3	102	72.0-127	
Allyl chloride	25.0	22.9	91.6	70.0-131	
(S) Toluene-d8			*110*	*75.0-131*	
(S) 4-Bromofluorobenzene			*90.9*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*109*	*70.0-130*	

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.
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 met method criteria.
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	LAO00356
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

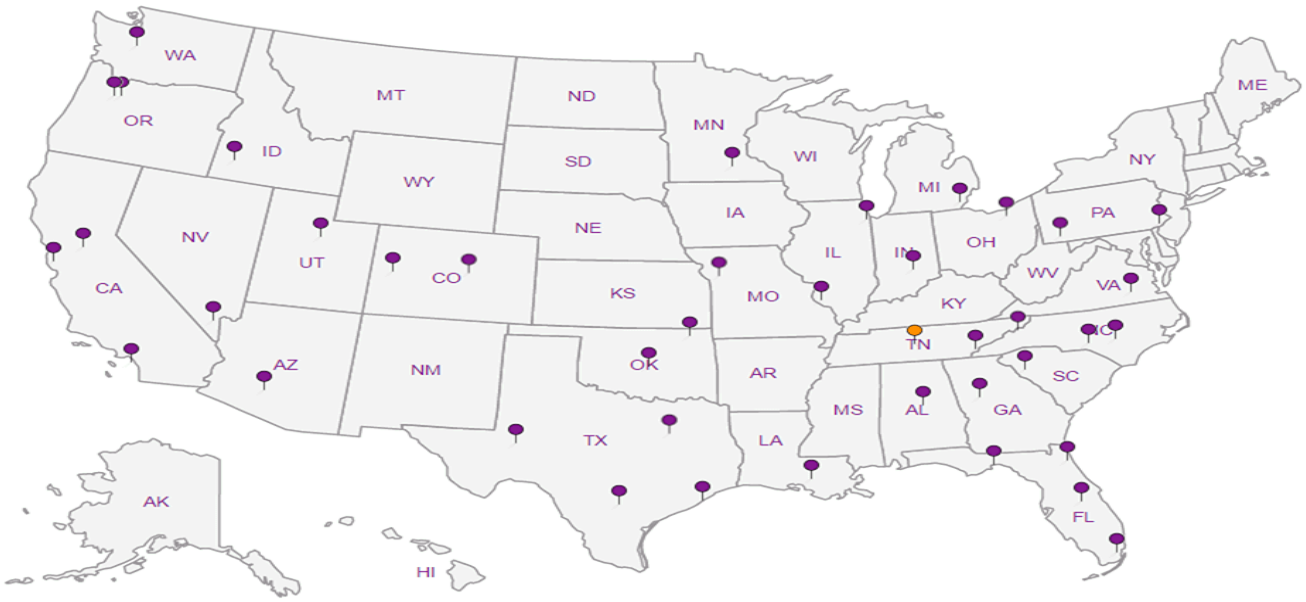
Third Party Federal Accreditations

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.



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;bhaldeman@pesenv.com;

Project Description: American Linen

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: 206-529-3980

Client Project # 1413.001.05.601

Lab Project # PESENVSWA-ALP

Collected by (print): BLH/HRC

Site/Facility ID # American Linen

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y ___

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

Quote #

Date Results Needed: Standard TAT

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NO3, Cl, SO4 125mlHDPE-NoPres	ALK 125mlHDPE-NoPres	RSK175LL 40mlAmb-HCl	TOC 250mlHDPE-HCl	Total Fe Mn 250mlHDPE-HNO3	V8260ULLC 40mlAmb-HCl	NWTPH-Gx			Remarks	Sample # (lab only)
										<2	<2						
PRB-C1-091520	Grab	GW	73.5	9-15-20	900	12	X	X	X	X	X	X	X				-01
PRB-A1-091520		GW	54		1045	12	X	X	X	X	X	X	X				-02
PRB-B1-091520		GW	57		1125	12	X	X	X	X	X	X	X				-03
PRB-D1-091520		GW	88.2		1245	12	X	X	X	X	X	X	X				-04
PRB-A17-091520		GW	45		1330	12	X	X	X	X	X	X	X				-05
PRB-B17-091520		GW	68		1515	12	X	X	X	X	X	X	X				-06
PRB-C17-091520		GW	81		1515	12	X	X	X	X	X	X	X				-07
		GW															
		GW															
		GW															

Chain of Custody Page 1 of 1

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 # L1262257

Table A210

Acctnum: PESENVSWA

Template: T174146

Prelogin: P797213

PM: 546 - Jared Starkey

PB: 9/10/20 MB

Shipped Via: FedEX Standard

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

Remarks: *Nitrate has 48hr hold time
VOCs by V8260ULLC

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 9186 2497 9605

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: 9/15/20	Time: 1640	Received by: (Signature)	Trip Blank Received: Yes / No (No) HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C 0.6-4-0.2=0.4 Bottles Received: 84
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) B. Barnes	Date: 9-16-20 Time: 0930

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

October 23, 2020

Revised Report

PES Environmental, Inc.- WA

Sample Delivery Group:	L1262881
Samples Received:	09/17/2020
Project Number:	1413.001.05.601
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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PRB-100-091620 L1262881-01 GW

Collected by: Ben Hecht | Collected date/time: 09/16/20 08:15 | Received date/time: 09/17/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1544723	1	09/18/20 16:54	09/18/20 16:54	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1544722	1	09/17/20 13:14	09/17/20 13:14	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1545906	1	09/19/20 19:03	09/19/20 19:03	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1544684	1	09/21/20 16:04	09/22/20 20:43	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1546048	1	09/20/20 17:13	09/20/20 17:13	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1546968	1	09/23/20 11:13	09/23/20 11:13	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548395	1	09/24/20 13:45	09/24/20 13:45	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1547998	1	09/24/20 16:21	09/24/20 16:21	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1548950	50	09/26/20 00:31	09/26/20 00:31	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1550166	50	09/27/20 19:11	09/27/20 19:11	ADM	Mt. Juliet, TN

PRB-D11-091620 L1262881-02 GW

Collected by: Ben Hecht | Collected date/time: 09/16/20 09:20 | Received date/time: 09/17/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1544723	1	09/18/20 17:02	09/18/20 17:02	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1544722	1	09/17/20 13:27	09/17/20 13:27	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1544722	5	09/17/20 15:35	09/17/20 15:35	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1545906	1	09/19/20 19:23	09/19/20 19:23	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1544684	1	09/21/20 16:04	09/22/20 20:47	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1546048	1	09/20/20 17:34	09/20/20 17:34	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1546968	1	09/23/20 11:16	09/23/20 11:16	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1547998	1	09/24/20 16:41	09/24/20 16:41	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1548950	1	09/25/20 23:30	09/25/20 23:30	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1550166	1	09/27/20 18:10	09/27/20 18:10	ADM	Mt. Juliet, TN

PRB-B11-091620 L1262881-03 GW

Collected by: Ben Hecht | Collected date/time: 09/16/20 10:25 | Received date/time: 09/17/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1544723	1	09/18/20 17:20	09/18/20 17:20	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1544722	1	09/17/20 14:06	09/17/20 14:06	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1544722	5	09/17/20 15:48	09/17/20 15:48	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1545906	1	09/19/20 19:43	09/19/20 19:43	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1544684	1	09/21/20 16:04	09/22/20 20:51	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1546048	1	09/20/20 17:55	09/20/20 17:55	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1546968	1	09/23/20 11:18	09/23/20 11:18	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548395	1	09/24/20 13:49	09/24/20 13:49	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1547998	1	09/24/20 17:00	09/24/20 17:00	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1548950	10	09/26/20 00:51	09/26/20 00:51	ACG	Mt. Juliet, TN

PRB-A11-091620 L1262881-04 GW

Collected by: Ben Hecht | Collected date/time: 09/16/20 12:00 | Received date/time: 09/17/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1544723	1	09/18/20 17:29	09/18/20 17:29	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1544722	1	09/17/20 14:18	09/17/20 14:18	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1545906	1	09/19/20 20:04	09/19/20 20:04	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1544684	1	09/21/20 16:04	09/22/20 20:54	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1546048	1	09/20/20 18:15	09/20/20 18:15	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1546968	1	09/23/20 11:21	09/23/20 11:21	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548395	1	09/24/20 13:52	09/24/20 13:52	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1547998	1	09/24/20 17:18	09/24/20 17:18	JHH	Mt. Juliet, TN

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

PRB-A11-091620 L1262881-04 GW

Collected by: Ben Hecht | Collected date/time: 09/16/20 12:00 | Received date/time: 09/17/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1548950	50	09/26/20 01:12	09/26/20 01:12	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1550166	50	09/27/20 19:32	09/27/20 19:32	ADM	Mt. Juliet, TN

PRB-C11-091620 L1262881-05 GW

Collected by: Ben Hecht | Collected date/time: 09/16/20 13:30 | Received date/time: 09/17/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1544723	1	09/18/20 17:38	09/18/20 17:38	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1544722	1	09/17/20 15:22	09/17/20 15:22	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1545906	1	09/19/20 22:15	09/19/20 22:15	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1544684	1	09/21/20 16:04	09/22/20 20:58	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1546048	1	09/20/20 18:36	09/20/20 18:36	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1546968	1	09/23/20 11:38	09/23/20 11:38	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1547998	1	09/24/20 17:37	09/24/20 17:37	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1548950	1	09/25/20 23:50	09/25/20 23:50	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1550166	1	09/27/20 18:31	09/27/20 18:31	ADM	Mt. Juliet, TN

EQ-091620 L1262881-06 GW

Collected by: Ben Hecht | Collected date/time: 09/16/20 14:30 | Received date/time: 09/17/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1545492	1	09/20/20 14:41	09/20/20 14:41	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1544722	1	09/17/20 14:31	09/17/20 14:31	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1545906	1	09/19/20 22:28	09/19/20 22:28	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1544684	1	09/21/20 16:04	09/22/20 21:02	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1546048	1	09/20/20 13:45	09/20/20 13:45	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1546968	1	09/23/20 11:44	09/23/20 11:44	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1547998	1	09/24/20 13:50	09/24/20 13:50	ADM	Mt. Juliet, TN

TB-091620 L1262881-07 GW

Collected by: Ben Hecht | Collected date/time: 09/16/20 15:30 | Received date/time: 09/17/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1546048	1	09/20/20 13:24	09/20/20 13:24	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1547998	1	09/24/20 14:09	09/24/20 14:09	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

Report Revision History

Level II Report - Version 1: 09/28/20 18:22

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	09/18/2020 16:54	WG1544723

Sample Narrative:

L1262881-01 WG1544723: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	31100		379	1000	1	09/17/2020 13:14	WG1544722
Nitrate	U		48.0	100	1	09/17/2020 13:14	WG1544722
Sulfate	34200		594	5000	1	09/17/2020 13:14	WG1544722

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)	5670		102	1000	1	09/19/2020 19:03	WG1545906

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	4790		48.9	100	1	09/22/2020 20:43	WG1544684
Manganese	823		1.32	5.00	1	09/22/2020 20:43	WG1544684

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	1130		31.6	100	1	09/20/2020 17:13	WG1546048
(S) a,a,a-Trifluorotoluene(FID)	*94.0*			*78.0-120*		*09/20/2020 17:13*	WG1546048

Sample Narrative:

L1262881-01 WG1546048: No discernible 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	1710		0.287	0.678	1	09/24/2020 13:45	WG1548395
Ethane	69.7		0.296	1.29	1	09/23/2020 11:13	WG1546968
Ethene	37.1		0.422	1.27	1	09/23/2020 11:13	WG1546968

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	9.03		0.548	1.00	1	09/24/2020 16:21	WG1547998
Acrylonitrile	U		0.0760	0.500	1	09/24/2020 16:21	WG1547998
Benzene	0.161		0.0160	0.0400	1	09/24/2020 16:21	WG1547998
Bromobenzene	U		0.0420	0.500	1	09/24/2020 16:21	WG1547998
Bromodichloromethane	U		0.0315	0.100	1	09/24/2020 16:21	WG1547998
Bromoform	U		0.239	1.00	1	09/24/2020 16:21	WG1547998
Bromomethane	U	J0	0.148	0.500	1	09/24/2020 16:21	WG1547998
n-Butylbenzene	U		0.153	0.500	1	09/24/2020 16:21	WG1547998
sec-Butylbenzene	U		0.101	0.500	1	09/24/2020 16:21	WG1547998
tert-Butylbenzene	U		0.0620	0.200	1	09/24/2020 16:21	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Carbon tetrachloride	U		0.0432	0.200	1	09/24/2020 16:21	WG1547998
Chlorobenzene	U		0.0229	0.100	1	09/24/2020 16:21	WG1547998
Chlorodibromomethane	U		0.0180	0.100	1	09/24/2020 16:21	WG1547998
Chloroethane	U	J0	0.0432	0.200	1	09/24/2020 16:21	WG1547998
Chloroform	U		0.0166	0.100	1	09/24/2020 16:21	WG1547998
Chloromethane	U	J0	0.0556	0.500	1	09/24/2020 16:21	WG1547998
2-Chlorotoluene	U		0.0368	0.100	1	09/24/2020 16:21	WG1547998
4-Chlorotoluene	U		0.0452	0.200	1	09/24/2020 16:21	WG1547998
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/24/2020 16:21	WG1547998
1,2-Dibromoethane	U		0.0210	0.100	1	09/24/2020 16:21	WG1547998
Dibromomethane	U		0.0400	0.200	1	09/24/2020 16:21	WG1547998
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/24/2020 16:21	WG1547998
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/24/2020 16:21	WG1547998
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/24/2020 16:21	WG1547998
Dichlorodifluoromethane	U		0.0327	0.100	1	09/24/2020 16:21	WG1547998
1,1-Dichloroethane	U		0.0230	0.100	1	09/24/2020 16:21	WG1547998
1,2-Dichloroethane	U		0.0190	0.100	1	09/24/2020 16:21	WG1547998
1,1-Dichloroethene	4.61		0.0200	0.100	1	09/24/2020 16:21	WG1547998
cis-1,2-Dichloroethene	2000		1.38	5.00	50	09/26/2020 00:31	WG1548950
trans-1,2-Dichloroethene	7.43		0.0572	0.200	1	09/24/2020 16:21	WG1547998
1,2-Dichloropropane	U		0.0508	0.200	1	09/24/2020 16:21	WG1547998
1,1-Dichloropropene	U		0.0280	0.100	1	09/24/2020 16:21	WG1547998
1,3-Dichloropropane	U		0.0700	0.200	1	09/24/2020 16:21	WG1547998
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/24/2020 16:21	WG1547998
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/24/2020 16:21	WG1547998
2,2-Dichloropropane	U		0.0317	0.100	1	09/24/2020 16:21	WG1547998
Di-isopropyl ether	U		0.0140	0.0400	1	09/24/2020 16:21	WG1547998
Ethylbenzene	U		0.0212	0.100	1	09/24/2020 16:21	WG1547998
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/24/2020 16:21	WG1547998
Isopropylbenzene	U		0.0345	0.100	1	09/24/2020 16:21	WG1547998
p-Isopropyltoluene	U		0.0932	0.200	1	09/24/2020 16:21	WG1547998
2-Butanone (MEK)	4.34	J0	0.500	1.00	1	09/24/2020 16:21	WG1547998
Methylene Chloride	U		0.265	1.00	1	09/24/2020 16:21	WG1547998
4-Methyl-2-pentanone (MIBK)	3.43	J0	0.400	1.00	1	09/24/2020 16:21	WG1547998
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/24/2020 16:21	WG1547998
Naphthalene	U		0.124	0.500	1	09/24/2020 16:21	WG1547998
n-Propylbenzene	U		0.0472	0.200	1	09/24/2020 16:21	WG1547998
Styrene	U		0.109	0.500	1	09/24/2020 16:21	WG1547998
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/24/2020 16:21	WG1547998
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/24/2020 16:21	WG1547998
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/24/2020 16:21	WG1547998
Tetrachloroethene	454		1.40	5.00	50	09/26/2020 00:31	WG1548950
Toluene	0.148	J	0.0500	0.200	1	09/24/2020 16:21	WG1547998
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/24/2020 16:21	WG1547998
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/24/2020 16:21	WG1547998
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/24/2020 16:21	WG1547998
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/24/2020 16:21	WG1547998
Trichloroethene	320		0.800	2.00	50	09/27/2020 19:11	WG1550166
Trichlorofluoromethane	0.0200	J J0	0.0200	0.100	1	09/24/2020 16:21	WG1547998
1,2,3-Trichloropropane	U		0.204	0.500	1	09/24/2020 16:21	WG1547998
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/24/2020 16:21	WG1547998
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/24/2020 16:21	WG1547998
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/24/2020 16:21	WG1547998
Vinyl chloride	234		1.36	5.00	50	09/26/2020 00:31	WG1548950
Xylenes, Total	U		0.191	0.260	1	09/24/2020 16:21	WG1547998
Ethyl Ether	U		0.0170	0.100	1	09/24/2020 16:21	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Tetrahydrofuran	38.3		0.0900	0.500	1	09/24/2020 16:21	WG1547998
Iodomethane	U		0.242	0.500	1	09/24/2020 16:21	WG1547998
Allyl chloride	U		0.580	1.00	1	09/24/2020 16:21	WG1547998
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/24/2020 16:21	WG1547998
(S) Toluene-d8	*112*			*75.0-131*		*09/24/2020 16:21*	WG1547998
(S) Toluene-d8	*105*			*75.0-131*		*09/26/2020 00:31*	WG1548950
(S) Toluene-d8	*102*			*75.0-131*		*09/27/2020 19:11*	WG1550166
(S) 4-Bromofluorobenzene	*87.9*			*67.0-138*		*09/24/2020 16:21*	WG1547998
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/26/2020 00:31*	WG1548950
(S) 4-Bromofluorobenzene	*97.6*			*67.0-138*		*09/27/2020 19:11*	WG1550166
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*09/24/2020 16:21*	WG1547998
(S) 1,2-Dichloroethane-d4	*99.1*			*70.0-130*		*09/26/2020 00:31*	WG1548950
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/27/2020 19:11*	WG1550166

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	238000		8450	20000	1	09/18/2020 17:02	WG1544723

Sample Narrative:

L1262881-02 WG1544723: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	24700		379	1000	1	09/17/2020 13:27	WG1544722
Nitrate	U		48.0	100	1	09/17/2020 13:27	WG1544722
Sulfate	112000		2970	25000	5	09/17/2020 15:35	WG1544722

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)	3970		102	1000	1	09/19/2020 19:23	WG1545906

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2800		48.9	100	1	09/22/2020 20:47	WG1544684
Manganese	749		1.32	5.00	1	09/22/2020 20:47	WG1544684

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	69.2	B J	31.6	100	1	09/20/2020 17:34	WG1546048
(S) a,a,a-Trifluorotoluene(FID)	*92.0*			*78.0-120*		*09/20/2020 17:34*	WG1546048

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	2350		0.287	0.678	1	09/23/2020 11:16	WG1546968
Ethane	U		0.296	1.29	1	09/23/2020 11:16	WG1546968
Ethene	15.2		0.422	1.27	1	09/23/2020 11:16	WG1546968

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	0.795	J	0.548	1.00	1	09/24/2020 16:41	WG1547998
Acrylonitrile	U		0.0760	0.500	1	09/24/2020 16:41	WG1547998
Benzene	0.0180	J	0.0160	0.0400	1	09/24/2020 16:41	WG1547998
Bromobenzene	U		0.0420	0.500	1	09/24/2020 16:41	WG1547998
Bromodichloromethane	U		0.0315	0.100	1	09/24/2020 16:41	WG1547998
Bromoform	U		0.239	1.00	1	09/24/2020 16:41	WG1547998
Bromomethane	U	J0	0.148	0.500	1	09/24/2020 16:41	WG1547998
n-Butylbenzene	U		0.153	0.500	1	09/24/2020 16:41	WG1547998
sec-Butylbenzene	U		0.101	0.500	1	09/24/2020 16:41	WG1547998
tert-Butylbenzene	U		0.0620	0.200	1	09/24/2020 16:41	WG1547998
Carbon tetrachloride	U		0.0432	0.200	1	09/24/2020 16:41	WG1547998
Chlorobenzene	U		0.0229	0.100	1	09/24/2020 16:41	WG1547998
Chlorodibromomethane	U		0.0180	0.100	1	09/24/2020 16:41	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloroethane	0.273	J0	0.0432	0.200	1	09/24/2020 16:41	WG1547998
Chloroform	0.0710	J	0.0166	0.100	1	09/24/2020 16:41	WG1547998
Chloromethane	U	J0	0.0556	0.500	1	09/24/2020 16:41	WG1547998
2-Chlorotoluene	U		0.0368	0.100	1	09/24/2020 16:41	WG1547998
4-Chlorotoluene	U		0.0452	0.200	1	09/24/2020 16:41	WG1547998
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/24/2020 16:41	WG1547998
1,2-Dibromoethane	U		0.0210	0.100	1	09/24/2020 16:41	WG1547998
Dibromomethane	U		0.0400	0.200	1	09/24/2020 16:41	WG1547998
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/24/2020 16:41	WG1547998
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/24/2020 16:41	WG1547998
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/24/2020 16:41	WG1547998
Dichlorodifluoromethane	U		0.0327	0.100	1	09/24/2020 16:41	WG1547998
1,1-Dichloroethane	U		0.0230	0.100	1	09/24/2020 16:41	WG1547998
1,2-Dichloroethane	U		0.0190	0.100	1	09/24/2020 16:41	WG1547998
1,1-Dichloroethene	0.0230	J	0.0200	0.100	1	09/24/2020 16:41	WG1547998
cis-1,2-Dichloroethene	6.63		0.0276	0.100	1	09/25/2020 23:30	WG1548950
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/24/2020 16:41	WG1547998
1,2-Dichloropropane	U		0.0508	0.200	1	09/24/2020 16:41	WG1547998
1,1-Dichloropropene	U		0.0280	0.100	1	09/24/2020 16:41	WG1547998
1,3-Dichloropropane	U		0.0700	0.200	1	09/24/2020 16:41	WG1547998
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/24/2020 16:41	WG1547998
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/24/2020 16:41	WG1547998
2,2-Dichloropropane	U		0.0317	0.100	1	09/24/2020 16:41	WG1547998
Di-isopropyl ether	U		0.0140	0.0400	1	09/24/2020 16:41	WG1547998
Ethylbenzene	U		0.0212	0.100	1	09/24/2020 16:41	WG1547998
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/24/2020 16:41	WG1547998
Isopropylbenzene	U		0.0345	0.100	1	09/24/2020 16:41	WG1547998
p-Isopropyltoluene	U		0.0932	0.200	1	09/24/2020 16:41	WG1547998
2-Butanone (MEK)	U		0.500	1.00	1	09/24/2020 16:41	WG1547998
Methylene Chloride	U		0.265	1.00	1	09/24/2020 16:41	WG1547998
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/24/2020 16:41	WG1547998
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/24/2020 16:41	WG1547998
Naphthalene	U		0.124	0.500	1	09/24/2020 16:41	WG1547998
n-Propylbenzene	U		0.0472	0.200	1	09/24/2020 16:41	WG1547998
Styrene	U		0.109	0.500	1	09/24/2020 16:41	WG1547998
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/24/2020 16:41	WG1547998
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/24/2020 16:41	WG1547998
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/24/2020 16:41	WG1547998
Tetrachloroethene	U		0.0280	0.100	1	09/25/2020 23:30	WG1548950
Toluene	0.0930	J	0.0500	0.200	1	09/24/2020 16:41	WG1547998
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/24/2020 16:41	WG1547998
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/24/2020 16:41	WG1547998
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/24/2020 16:41	WG1547998
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/24/2020 16:41	WG1547998
Trichloroethene	U		0.0160	0.0400	1	09/27/2020 18:10	WG1550166
Trichlorofluoromethane	U	J0	0.0200	0.100	1	09/24/2020 16:41	WG1547998
1,2,3-Trichloropropane	U		0.204	0.500	1	09/24/2020 16:41	WG1547998
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/24/2020 16:41	WG1547998
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/24/2020 16:41	WG1547998
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/24/2020 16:41	WG1547998
Vinyl chloride	6.73		0.0273	0.100	1	09/25/2020 23:30	WG1548950
Xylenes, Total	U		0.191	0.260	1	09/24/2020 16:41	WG1547998
Ethyl Ether	U		0.0170	0.100	1	09/24/2020 16:41	WG1547998
Tetrahydrofuran	U		0.0900	0.500	1	09/24/2020 16:41	WG1547998
Iodomethane	U		0.242	0.500	1	09/24/2020 16:41	WG1547998
Allyl chloride	U		0.580	1.00	1	09/24/2020 16:41	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/24/2020 16:41	WG1547998
(S) Toluene-d8	*113*			*75.0-131*		*09/24/2020 16:41*	WG1547998
(S) Toluene-d8	*103*			*75.0-131*		*09/25/2020 23:30*	WG1548950
(S) Toluene-d8	*102*			*75.0-131*		*09/27/2020 18:10*	WG1550166
(S) 4-Bromofluorobenzene	*87.8*			*67.0-138*		*09/24/2020 16:41*	WG1547998
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/25/2020 23:30*	WG1548950
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*09/27/2020 18:10*	WG1550166
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*09/24/2020 16:41*	WG1547998
(S) 1,2-Dichloroethane-d4	*99.8*			*70.0-130*		*09/25/2020 23:30*	WG1548950
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/27/2020 18:10*	WG1550166

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	450000		8450	20000	1	09/18/2020 17:20	WG1544723

Sample Narrative:

L1262881-03 WG1544723: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	53800		379	1000	1	09/17/2020 14:06	WG1544722
Nitrate	U		48.0	100	1	09/17/2020 14:06	WG1544722
Sulfate	189000		2970	25000	5	09/17/2020 15:48	WG1544722

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	09/19/2020 19:43	WG1545906

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	5400		48.9	100	1	09/22/2020 20:51	WG1544684
Manganese	812		1.32	5.00	1	09/22/2020 20:51	WG1544684

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	274	B	31.6	100	1	09/20/2020 17:55	WG1546048
(S) a,a,a-Trifluorotoluene(FID)	*92.8*			*78.0-120*		*09/20/2020 17:55*	WG1546048

Sample Narrative:

L1262881-03 WG1546048: No discernible 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	1480		0.287	0.678	1	09/24/2020 13:49	WG1548395
Ethane	277		0.296	1.29	1	09/23/2020 11:18	WG1546968
Ethene	211		0.422	1.27	1	09/23/2020 11:18	WG1546968

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.24		0.548	1.00	1	09/24/2020 17:00	WG1547998
Acrylonitrile	U		0.0760	0.500	1	09/24/2020 17:00	WG1547998
Benzene	0.118		0.0160	0.0400	1	09/24/2020 17:00	WG1547998
Bromobenzene	U		0.0420	0.500	1	09/24/2020 17:00	WG1547998
Bromodichloromethane	U		0.0315	0.100	1	09/24/2020 17:00	WG1547998
Bromoform	U		0.239	1.00	1	09/24/2020 17:00	WG1547998
Bromomethane	U	J0	0.148	0.500	1	09/24/2020 17:00	WG1547998
n-Butylbenzene	U		0.153	0.500	1	09/24/2020 17:00	WG1547998
sec-Butylbenzene	U		0.101	0.500	1	09/24/2020 17:00	WG1547998
tert-Butylbenzene	U		0.0620	0.200	1	09/24/2020 17:00	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Carbon tetrachloride	U		0.0432	0.200	1	09/24/2020 17:00	WG1547998
Chlorobenzene	U		0.0229	0.100	1	09/24/2020 17:00	WG1547998
Chlorodibromomethane	U		0.0180	0.100	1	09/24/2020 17:00	WG1547998
Chloroethane	U	J0	0.0432	0.200	1	09/24/2020 17:00	WG1547998
Chloroform	U		0.0166	0.100	1	09/24/2020 17:00	WG1547998
Chloromethane	U	J0	0.0556	0.500	1	09/24/2020 17:00	WG1547998
2-Chlorotoluene	U		0.0368	0.100	1	09/24/2020 17:00	WG1547998
4-Chlorotoluene	U		0.0452	0.200	1	09/24/2020 17:00	WG1547998
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/24/2020 17:00	WG1547998
1,2-Dibromoethane	U		0.0210	0.100	1	09/24/2020 17:00	WG1547998
Dibromomethane	U		0.0400	0.200	1	09/24/2020 17:00	WG1547998
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/24/2020 17:00	WG1547998
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/24/2020 17:00	WG1547998
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/24/2020 17:00	WG1547998
Dichlorodifluoromethane	U		0.0327	0.100	1	09/24/2020 17:00	WG1547998
1,1-Dichloroethane	U		0.0230	0.100	1	09/24/2020 17:00	WG1547998
1,2-Dichloroethane	0.0480	J	0.0190	0.100	1	09/24/2020 17:00	WG1547998
1,1-Dichloroethene	13.1		0.0200	0.100	1	09/24/2020 17:00	WG1547998
cis-1,2-Dichloroethene	465		0.276	1.00	10	09/26/2020 00:51	WG1548950
trans-1,2-Dichloroethene	3.01		0.0572	0.200	1	09/24/2020 17:00	WG1547998
1,2-Dichloropropane	U		0.0508	0.200	1	09/24/2020 17:00	WG1547998
1,1-Dichloropropene	U		0.0280	0.100	1	09/24/2020 17:00	WG1547998
1,3-Dichloropropane	U		0.0700	0.200	1	09/24/2020 17:00	WG1547998
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/24/2020 17:00	WG1547998
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/24/2020 17:00	WG1547998
2,2-Dichloropropane	U		0.0317	0.100	1	09/24/2020 17:00	WG1547998
Di-isopropyl ether	U		0.0140	0.0400	1	09/24/2020 17:00	WG1547998
Ethylbenzene	U		0.0212	0.100	1	09/24/2020 17:00	WG1547998
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/24/2020 17:00	WG1547998
Isopropylbenzene	U		0.0345	0.100	1	09/24/2020 17:00	WG1547998
p-Isopropyltoluene	U		0.0932	0.200	1	09/24/2020 17:00	WG1547998
2-Butanone (MEK)	0.690	J J0	0.500	1.00	1	09/24/2020 17:00	WG1547998
Methylene Chloride	U		0.265	1.00	1	09/24/2020 17:00	WG1547998
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/24/2020 17:00	WG1547998
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/24/2020 17:00	WG1547998
Naphthalene	U		0.124	0.500	1	09/24/2020 17:00	WG1547998
n-Propylbenzene	U		0.0472	0.200	1	09/24/2020 17:00	WG1547998
Styrene	U		0.109	0.500	1	09/24/2020 17:00	WG1547998
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/24/2020 17:00	WG1547998
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/24/2020 17:00	WG1547998
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/24/2020 17:00	WG1547998
Tetrachloroethene	0.818		0.0280	0.100	1	09/24/2020 17:00	WG1547998
Toluene	0.204		0.0500	0.200	1	09/24/2020 17:00	WG1547998
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/24/2020 17:00	WG1547998
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/24/2020 17:00	WG1547998
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/24/2020 17:00	WG1547998
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/24/2020 17:00	WG1547998
Trichloroethene	35.9		0.0160	0.0400	1	09/24/2020 17:00	WG1547998
Trichlorofluoromethane	U	J0	0.0200	0.100	1	09/24/2020 17:00	WG1547998
1,2,3-Trichloropropane	U		0.204	0.500	1	09/24/2020 17:00	WG1547998
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/24/2020 17:00	WG1547998
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/24/2020 17:00	WG1547998
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/24/2020 17:00	WG1547998
Vinyl chloride	344		0.273	1.00	10	09/26/2020 00:51	WG1548950
Xylenes, Total	U		0.191	0.260	1	09/24/2020 17:00	WG1547998
Ethyl Ether	U		0.0170	0.100	1	09/24/2020 17:00	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Tetrahydrofuran	15.5		0.0900	0.500	1	09/24/2020 17:00	WG1547998
Iodomethane	U		0.242	0.500	1	09/24/2020 17:00	WG1547998
Allyl chloride	U		0.580	1.00	1	09/24/2020 17:00	WG1547998
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/24/2020 17:00	WG1547998
(S) Toluene-d8	*113*			*75.0-131*		*09/24/2020 17:00*	WG1547998
(S) Toluene-d8	*102*			*75.0-131*		*09/26/2020 00:51*	WG1548950
(S) 4-Bromofluorobenzene	*87.5*			*67.0-138*		*09/24/2020 17:00*	WG1547998
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/26/2020 00:51*	WG1548950
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*09/24/2020 17:00*	WG1547998
(S) 1,2-Dichloroethane-d4	*99.5*			*70.0-130*		*09/26/2020 00:51*	WG1548950

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	271000		8450	20000	1	09/18/2020 17:29	WG1544723

Sample Narrative:

L1262881-04 WG1544723: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	30500		379	1000	1	09/17/2020 14:18	WG1544722
Nitrate	U		48.0	100	1	09/17/2020 14:18	WG1544722
Sulfate	37400		594	5000	1	09/17/2020 14:18	WG1544722

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)	5620		102	1000	1	09/19/2020 20:04	WG1545906

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	7350		48.9	100	1	09/22/2020 20:54	WG1544684
Manganese	905		1.32	5.00	1	09/22/2020 20:54	WG1544684

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	1090		31.6	100	1	09/20/2020 18:15	WG1546048
(S) a,a,a-Trifluorotoluene(FID)	*93.0*			*78.0-120*		*09/20/2020 18:15*	WG1546048

Sample Narrative:

L1262881-04 WG1546048: No discernible 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	1170		0.287	0.678	1	09/24/2020 13:52	WG1548395
Ethane	56.2		0.296	1.29	1	09/23/2020 11:21	WG1546968
Ethene	27.6		0.422	1.27	1	09/23/2020 11:21	WG1546968

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	11.0		0.548	1.00	1	09/24/2020 17:18	WG1547998
Acrylonitrile	U		0.0760	0.500	1	09/24/2020 17:18	WG1547998
Benzene	0.143		0.0160	0.0400	1	09/24/2020 17:18	WG1547998
Bromobenzene	U		0.0420	0.500	1	09/24/2020 17:18	WG1547998
Bromodichloromethane	U		0.0315	0.100	1	09/24/2020 17:18	WG1547998
Bromoform	U		0.239	1.00	1	09/24/2020 17:18	WG1547998
Bromomethane	U	J0	0.148	0.500	1	09/24/2020 17:18	WG1547998
n-Butylbenzene	U		0.153	0.500	1	09/24/2020 17:18	WG1547998
sec-Butylbenzene	U		0.101	0.500	1	09/24/2020 17:18	WG1547998
tert-Butylbenzene	U		0.0620	0.200	1	09/24/2020 17:18	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Carbon tetrachloride	U		0.0432	0.200	1	09/24/2020 17:18	WG1547998
Chlorobenzene	U		0.0229	0.100	1	09/24/2020 17:18	WG1547998
Chlorodibromomethane	U		0.0180	0.100	1	09/24/2020 17:18	WG1547998
Chloroethane	U	J0	0.0432	0.200	1	09/24/2020 17:18	WG1547998
Chloroform	U		0.0166	0.100	1	09/24/2020 17:18	WG1547998
Chloromethane	U	J0	0.0556	0.500	1	09/24/2020 17:18	WG1547998
2-Chlorotoluene	U		0.0368	0.100	1	09/24/2020 17:18	WG1547998
4-Chlorotoluene	U		0.0452	0.200	1	09/24/2020 17:18	WG1547998
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/24/2020 17:18	WG1547998
1,2-Dibromoethane	U		0.0210	0.100	1	09/24/2020 17:18	WG1547998
Dibromomethane	U		0.0400	0.200	1	09/24/2020 17:18	WG1547998
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/24/2020 17:18	WG1547998
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/24/2020 17:18	WG1547998
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/24/2020 17:18	WG1547998
Dichlorodifluoromethane	U		0.0327	0.100	1	09/24/2020 17:18	WG1547998
1,1-Dichloroethane	U		0.0230	0.100	1	09/24/2020 17:18	WG1547998
1,2-Dichloroethane	0.0770	J	0.0190	0.100	1	09/24/2020 17:18	WG1547998
1,1-Dichloroethene	3.81		0.0200	0.100	1	09/24/2020 17:18	WG1547998
cis-1,2-Dichloroethene	2030		1.38	5.00	50	09/26/2020 01:12	WG1548950
trans-1,2-Dichloroethene	7.25		0.0572	0.200	1	09/24/2020 17:18	WG1547998
1,2-Dichloropropane	U		0.0508	0.200	1	09/24/2020 17:18	WG1547998
1,1-Dichloropropene	U		0.0280	0.100	1	09/24/2020 17:18	WG1547998
1,3-Dichloropropane	U		0.0700	0.200	1	09/24/2020 17:18	WG1547998
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/24/2020 17:18	WG1547998
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/24/2020 17:18	WG1547998
2,2-Dichloropropane	U		0.0317	0.100	1	09/24/2020 17:18	WG1547998
Di-isopropyl ether	U		0.0140	0.0400	1	09/24/2020 17:18	WG1547998
Ethylbenzene	U		0.0212	0.100	1	09/24/2020 17:18	WG1547998
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/24/2020 17:18	WG1547998
Isopropylbenzene	U		0.0345	0.100	1	09/24/2020 17:18	WG1547998
p-Isopropyltoluene	U		0.0932	0.200	1	09/24/2020 17:18	WG1547998
2-Butanone (MEK)	4.01	J0	0.500	1.00	1	09/24/2020 17:18	WG1547998
Methylene Chloride	U		0.265	1.00	1	09/24/2020 17:18	WG1547998
4-Methyl-2-pentanone (MIBK)	3.18	J0	0.400	1.00	1	09/24/2020 17:18	WG1547998
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/24/2020 17:18	WG1547998
Naphthalene	U		0.124	0.500	1	09/24/2020 17:18	WG1547998
n-Propylbenzene	U		0.0472	0.200	1	09/24/2020 17:18	WG1547998
Styrene	U		0.109	0.500	1	09/24/2020 17:18	WG1547998
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/24/2020 17:18	WG1547998
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/24/2020 17:18	WG1547998
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/24/2020 17:18	WG1547998
Tetrachloroethene	446		1.40	5.00	50	09/26/2020 01:12	WG1548950
Toluene	0.169	J	0.0500	0.200	1	09/24/2020 17:18	WG1547998
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/24/2020 17:18	WG1547998
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/24/2020 17:18	WG1547998
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/24/2020 17:18	WG1547998
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/24/2020 17:18	WG1547998
Trichloroethene	336		0.800	2.00	50	09/27/2020 19:32	WG1550166
Trichlorofluoromethane	0.0210	J J0	0.0200	0.100	1	09/24/2020 17:18	WG1547998
1,2,3-Trichloropropane	U		0.204	0.500	1	09/24/2020 17:18	WG1547998
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/24/2020 17:18	WG1547998
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/24/2020 17:18	WG1547998
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/24/2020 17:18	WG1547998
Vinyl chloride	237		1.36	5.00	50	09/26/2020 01:12	WG1548950
Xylenes, Total	U		0.191	0.260	1	09/24/2020 17:18	WG1547998
Ethyl Ether	U		0.0170	0.100	1	09/24/2020 17:18	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Tetrahydrofuran	39.2		0.0900	0.500	1	09/24/2020 17:18	WG1547998
Iodomethane	U		0.242	0.500	1	09/24/2020 17:18	WG1547998
Allyl chloride	U		0.580	1.00	1	09/24/2020 17:18	WG1547998
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/24/2020 17:18	WG1547998
(S) Toluene-d8	*112*			*75.0-131*		*09/24/2020 17:18*	WG1547998
(S) Toluene-d8	*103*			*75.0-131*		*09/26/2020 01:12*	WG1548950
(S) Toluene-d8	*102*			*75.0-131*		*09/27/2020 19:32*	WG1550166
(S) 4-Bromofluorobenzene	*92.3*			*67.0-138*		*09/24/2020 17:18*	WG1547998
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/26/2020 01:12*	WG1548950
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*09/27/2020 19:32*	WG1550166
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*09/24/2020 17:18*	WG1547998
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*09/26/2020 01:12*	WG1548950
(S) 1,2-Dichloroethane-d4	*98.0*			*70.0-130*		*09/27/2020 19:32*	WG1550166

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	235000		8450	20000	1	09/18/2020 17:38	WG1544723

Sample Narrative:

L1262881-05 WG1544723: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	23000		379	1000	1	09/17/2020 15:22	WG1544722
Nitrate	U		48.0	100	1	09/17/2020 15:22	WG1544722
Sulfate	45200		594	5000	1	09/17/2020 15:22	WG1544722

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	B	102	1000	1	09/19/2020 22:15	WG1545906

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	13600		48.9	100	1	09/22/2020 20:58	WG1544684
Manganese	545		1.32	5.00	1	09/22/2020 20:58	WG1544684

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	50.3	B J	31.6	100	1	09/20/2020 18:36	WG1546048
(S) a,a,a-Trifluorotoluene(FID)	*91.9*			*78.0-120*		*09/20/2020 18:36*	WG1546048

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	763		0.287	0.678	1	09/23/2020 11:38	WG1546968
Ethane	3.36		0.296	1.29	1	09/23/2020 11:38	WG1546968
Ethene	7.63		0.422	1.27	1	09/23/2020 11:38	WG1546968

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	09/24/2020 17:37	WG1547998
Acrylonitrile	U		0.0760	0.500	1	09/24/2020 17:37	WG1547998
Benzene	U		0.0160	0.0400	1	09/24/2020 17:37	WG1547998
Bromobenzene	U		0.0420	0.500	1	09/24/2020 17:37	WG1547998
Bromodichloromethane	U		0.0315	0.100	1	09/24/2020 17:37	WG1547998
Bromoform	U		0.239	1.00	1	09/24/2020 17:37	WG1547998
Bromomethane	U	J0	0.148	0.500	1	09/24/2020 17:37	WG1547998
n-Butylbenzene	U		0.153	0.500	1	09/24/2020 17:37	WG1547998
sec-Butylbenzene	U		0.101	0.500	1	09/24/2020 17:37	WG1547998
tert-Butylbenzene	U		0.0620	0.200	1	09/24/2020 17:37	WG1547998
Carbon tetrachloride	U		0.0432	0.200	1	09/24/2020 17:37	WG1547998
Chlorobenzene	U		0.0229	0.100	1	09/24/2020 17:37	WG1547998
Chlorodibromomethane	U		0.0180	0.100	1	09/24/2020 17:37	WG1547998

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloroethane	U	J0	0.0432	0.200	1	09/24/2020 17:37	WG1547998
Chloroform	U		0.0166	0.100	1	09/24/2020 17:37	WG1547998
Chloromethane	U	J0	0.0556	0.500	1	09/24/2020 17:37	WG1547998
2-Chlorotoluene	U		0.0368	0.100	1	09/24/2020 17:37	WG1547998
4-Chlorotoluene	U		0.0452	0.200	1	09/24/2020 17:37	WG1547998
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/24/2020 17:37	WG1547998
1,2-Dibromoethane	U		0.0210	0.100	1	09/24/2020 17:37	WG1547998
Dibromomethane	U		0.0400	0.200	1	09/24/2020 17:37	WG1547998
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/24/2020 17:37	WG1547998
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/24/2020 17:37	WG1547998
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/24/2020 17:37	WG1547998
Dichlorodifluoromethane	U		0.0327	0.100	1	09/24/2020 17:37	WG1547998
1,1-Dichloroethane	U		0.0230	0.100	1	09/24/2020 17:37	WG1547998
1,2-Dichloroethane	U		0.0190	0.100	1	09/24/2020 17:37	WG1547998
1,1-Dichloroethene	0.0250	J	0.0200	0.100	1	09/24/2020 17:37	WG1547998
cis-1,2-Dichloroethene	5.97		0.0276	0.100	1	09/25/2020 23:50	WG1548950
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/24/2020 17:37	WG1547998
1,2-Dichloropropane	U		0.0508	0.200	1	09/24/2020 17:37	WG1547998
1,1-Dichloropropene	U		0.0280	0.100	1	09/24/2020 17:37	WG1547998
1,3-Dichloropropane	U		0.0700	0.200	1	09/24/2020 17:37	WG1547998
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/24/2020 17:37	WG1547998
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/24/2020 17:37	WG1547998
2,2-Dichloropropane	U		0.0317	0.100	1	09/24/2020 17:37	WG1547998
Di-isopropyl ether	U		0.0140	0.0400	1	09/24/2020 17:37	WG1547998
Ethylbenzene	U		0.0212	0.100	1	09/24/2020 17:37	WG1547998
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/24/2020 17:37	WG1547998
Isopropylbenzene	U		0.0345	0.100	1	09/24/2020 17:37	WG1547998
p-Isopropyltoluene	U		0.0932	0.200	1	09/24/2020 17:37	WG1547998
2-Butanone (MEK)	U		0.500	1.00	1	09/24/2020 17:37	WG1547998
Methylene Chloride	U		0.265	1.00	1	09/24/2020 17:37	WG1547998
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/24/2020 17:37	WG1547998
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/24/2020 17:37	WG1547998
Naphthalene	U		0.124	0.500	1	09/24/2020 17:37	WG1547998
n-Propylbenzene	U		0.0472	0.200	1	09/24/2020 17:37	WG1547998
Styrene	U		0.109	0.500	1	09/24/2020 17:37	WG1547998
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/24/2020 17:37	WG1547998
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/24/2020 17:37	WG1547998
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/24/2020 17:37	WG1547998
Tetrachloroethene	0.477		0.0280	0.100	1	09/25/2020 23:50	WG1548950
Toluene	0.477		0.0500	0.200	1	09/24/2020 17:37	WG1547998
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/24/2020 17:37	WG1547998
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/24/2020 17:37	WG1547998
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/24/2020 17:37	WG1547998
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/24/2020 17:37	WG1547998
Trichloroethene	0.268		0.0160	0.0400	1	09/27/2020 18:31	WG1550166
Trichlorofluoromethane	U	J0	0.0200	0.100	1	09/24/2020 17:37	WG1547998
1,2,3-Trichloropropane	U		0.204	0.500	1	09/24/2020 17:37	WG1547998
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/24/2020 17:37	WG1547998
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/24/2020 17:37	WG1547998
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/24/2020 17:37	WG1547998
Vinyl chloride	24.7		0.0273	0.100	1	09/25/2020 23:50	WG1548950
Xylenes, Total	U		0.191	0.260	1	09/24/2020 17:37	WG1547998
Ethyl Ether	U		0.0170	0.100	1	09/24/2020 17:37	WG1547998
Tetrahydrofuran	U		0.0900	0.500	1	09/24/2020 17:37	WG1547998
Iodomethane	U		0.242	0.500	1	09/24/2020 17:37	WG1547998
Allyl chloride	U		0.580	1.00	1	09/24/2020 17:37	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/24/2020 17:37	WG1547998
(S) Toluene-d8	*117*			*75.0-131*		*09/24/2020 17:37*	WG1547998
(S) Toluene-d8	*103*			*75.0-131*		*09/25/2020 23:50*	WG1548950
(S) Toluene-d8	*102*			*75.0-131*		*09/27/2020 18:31*	WG1550166
(S) 4-Bromofluorobenzene	*88.7*			*67.0-138*		*09/24/2020 17:37*	WG1547998
(S) 4-Bromofluorobenzene	*99.7*			*67.0-138*		*09/25/2020 23:50*	WG1548950
(S) 4-Bromofluorobenzene	*99.4*			*67.0-138*		*09/27/2020 18:31*	WG1550166
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*09/24/2020 17:37*	WG1547998
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*09/25/2020 23:50*	WG1548950
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*09/27/2020 18:31*	WG1550166

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	09/20/2020 14:41	WG1545492

Sample Narrative:

L1262881-06 WG1545492: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	U		379	1000	1	09/17/2020 14:31	WG1544722
Nitrate	U	P1	48.0	100	1	09/17/2020 14:31	WG1544722
Sulfate	U		594	5000	1	09/17/2020 14:31	WG1544722

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)	363	B J	102	1000	1	09/19/2020 22:28	WG1545906

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	202	B	48.9	100	1	09/22/2020 21:02	WG1544684
Manganese	5.66		1.32	5.00	1	09/22/2020 21:02	WG1544684

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	49.4	B J	31.6	100	1	09/20/2020 13:45	WG1546048
(S) a,a,a-Trifluorotoluene(FID)	*92.5*			*78.0-120*		*09/20/2020 13:45*	WG1546048

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	09/23/2020 11:44	WG1546968
Ethane	U		0.296	1.29	1	09/23/2020 11:44	WG1546968
Ethene	U		0.422	1.27	1	09/23/2020 11:44	WG1546968

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.26		0.548	1.00	1	09/24/2020 13:50	WG1547998
Acrylonitrile	U		0.0760	0.500	1	09/24/2020 13:50	WG1547998
Benzene	U		0.0160	0.0400	1	09/24/2020 13:50	WG1547998
Bromobenzene	U		0.0420	0.500	1	09/24/2020 13:50	WG1547998
Bromodichloromethane	U		0.0315	0.100	1	09/24/2020 13:50	WG1547998
Bromoform	U		0.239	1.00	1	09/24/2020 13:50	WG1547998
Bromomethane	U	J0	0.148	0.500	1	09/24/2020 13:50	WG1547998
n-Butylbenzene	U		0.153	0.500	1	09/24/2020 13:50	WG1547998
sec-Butylbenzene	U		0.101	0.500	1	09/24/2020 13:50	WG1547998
tert-Butylbenzene	U		0.0620	0.200	1	09/24/2020 13:50	WG1547998
Carbon tetrachloride	U		0.0432	0.200	1	09/24/2020 13:50	WG1547998
Chlorobenzene	U		0.0229	0.100	1	09/24/2020 13:50	WG1547998
Chlorodibromomethane	U		0.0180	0.100	1	09/24/2020 13:50	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloroethane	U	J0	0.0432	0.200	1	09/24/2020 13:50	WG1547998
Chloroform	U		0.0166	0.100	1	09/24/2020 13:50	WG1547998
Chloromethane	U	J0	0.0556	0.500	1	09/24/2020 13:50	WG1547998
2-Chlorotoluene	U		0.0368	0.100	1	09/24/2020 13:50	WG1547998
4-Chlorotoluene	U		0.0452	0.200	1	09/24/2020 13:50	WG1547998
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/24/2020 13:50	WG1547998
1,2-Dibromoethane	U		0.0210	0.100	1	09/24/2020 13:50	WG1547998
Dibromomethane	U		0.0400	0.200	1	09/24/2020 13:50	WG1547998
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/24/2020 13:50	WG1547998
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/24/2020 13:50	WG1547998
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/24/2020 13:50	WG1547998
Dichlorodifluoromethane	U		0.0327	0.100	1	09/24/2020 13:50	WG1547998
1,1-Dichloroethane	U		0.0230	0.100	1	09/24/2020 13:50	WG1547998
1,2-Dichloroethane	U		0.0190	0.100	1	09/24/2020 13:50	WG1547998
1,1-Dichloroethene	U		0.0200	0.100	1	09/24/2020 13:50	WG1547998
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/24/2020 13:50	WG1547998
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/24/2020 13:50	WG1547998
1,2-Dichloropropane	U		0.0508	0.200	1	09/24/2020 13:50	WG1547998
1,1-Dichloropropene	U		0.0280	0.100	1	09/24/2020 13:50	WG1547998
1,3-Dichloropropane	U		0.0700	0.200	1	09/24/2020 13:50	WG1547998
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/24/2020 13:50	WG1547998
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/24/2020 13:50	WG1547998
2,2-Dichloropropane	U		0.0317	0.100	1	09/24/2020 13:50	WG1547998
Di-isopropyl ether	U		0.0140	0.0400	1	09/24/2020 13:50	WG1547998
Ethylbenzene	U		0.0212	0.100	1	09/24/2020 13:50	WG1547998
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/24/2020 13:50	WG1547998
Isopropylbenzene	U		0.0345	0.100	1	09/24/2020 13:50	WG1547998
p-Isopropyltoluene	U		0.0932	0.200	1	09/24/2020 13:50	WG1547998
2-Butanone (MEK)	U		0.500	1.00	1	09/24/2020 13:50	WG1547998
Methylene Chloride	U		0.265	1.00	1	09/24/2020 13:50	WG1547998
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/24/2020 13:50	WG1547998
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/24/2020 13:50	WG1547998
Naphthalene	U		0.124	0.500	1	09/24/2020 13:50	WG1547998
n-Propylbenzene	U		0.0472	0.200	1	09/24/2020 13:50	WG1547998
Styrene	U		0.109	0.500	1	09/24/2020 13:50	WG1547998
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/24/2020 13:50	WG1547998
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/24/2020 13:50	WG1547998
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/24/2020 13:50	WG1547998
Tetrachloroethene	U		0.0280	0.100	1	09/24/2020 13:50	WG1547998
Toluene	0.0590	J	0.0500	0.200	1	09/24/2020 13:50	WG1547998
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/24/2020 13:50	WG1547998
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/24/2020 13:50	WG1547998
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/24/2020 13:50	WG1547998
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/24/2020 13:50	WG1547998
Trichloroethene	U		0.0160	0.0400	1	09/24/2020 13:50	WG1547998
Trichlorofluoromethane	U	J0	0.0200	0.100	1	09/24/2020 13:50	WG1547998
1,2,3-Trichloropropane	U		0.204	0.500	1	09/24/2020 13:50	WG1547998
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/24/2020 13:50	WG1547998
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/24/2020 13:50	WG1547998
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/24/2020 13:50	WG1547998
Vinyl chloride	U	J0	0.0273	0.100	1	09/24/2020 13:50	WG1547998
Xylenes, Total	U		0.191	0.260	1	09/24/2020 13:50	WG1547998
Ethyl Ether	U		0.0170	0.100	1	09/24/2020 13:50	WG1547998
Tetrahydrofuran	U		0.0900	0.500	1	09/24/2020 13:50	WG1547998
Iodomethane	U		0.242	0.500	1	09/24/2020 13:50	WG1547998
Allyl chloride	U		0.580	1.00	1	09/24/2020 13:50	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/24/2020 13:50	WG1547998
(S) Toluene-d8	*108*			*75.0-131*		*09/24/2020 13:50*	WG1547998
(S) 4-Bromofluorobenzene	*89.9*			*67.0-138*		*09/24/2020 13:50*	WG1547998
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*09/24/2020 13:50*	WG1547998

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	33.7	B J	31.6	100	1	09/20/2020 13:24	WG1546048
(S) a,a,a-Trifluorotoluene(FID)	*92.2*			*78.0-120*		*09/20/2020 13:24*	WG1546048

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.36		0.548	1.00	1	09/24/2020 14:09	WG1547998
Acrylonitrile	U		0.0760	0.500	1	09/24/2020 14:09	WG1547998
Benzene	U		0.0160	0.0400	1	09/24/2020 14:09	WG1547998
Bromobenzene	U		0.0420	0.500	1	09/24/2020 14:09	WG1547998
Bromodichloromethane	U		0.0315	0.100	1	09/24/2020 14:09	WG1547998
Bromoform	U		0.239	1.00	1	09/24/2020 14:09	WG1547998
Bromomethane	U	J0	0.148	0.500	1	09/24/2020 14:09	WG1547998
n-Butylbenzene	U		0.153	0.500	1	09/24/2020 14:09	WG1547998
sec-Butylbenzene	U		0.101	0.500	1	09/24/2020 14:09	WG1547998
tert-Butylbenzene	U		0.0620	0.200	1	09/24/2020 14:09	WG1547998
Carbon tetrachloride	U		0.0432	0.200	1	09/24/2020 14:09	WG1547998
Chlorobenzene	U		0.0229	0.100	1	09/24/2020 14:09	WG1547998
Chlorodibromomethane	U		0.0180	0.100	1	09/24/2020 14:09	WG1547998
Chloroethane	U	J0	0.0432	0.200	1	09/24/2020 14:09	WG1547998
Chloroform	U		0.0166	0.100	1	09/24/2020 14:09	WG1547998
Chloromethane	U	J0	0.0556	0.500	1	09/24/2020 14:09	WG1547998
2-Chlorotoluene	U		0.0368	0.100	1	09/24/2020 14:09	WG1547998
4-Chlorotoluene	U		0.0452	0.200	1	09/24/2020 14:09	WG1547998
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/24/2020 14:09	WG1547998
1,2-Dibromoethane	U		0.0210	0.100	1	09/24/2020 14:09	WG1547998
Dibromomethane	U		0.0400	0.200	1	09/24/2020 14:09	WG1547998
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/24/2020 14:09	WG1547998
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/24/2020 14:09	WG1547998
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/24/2020 14:09	WG1547998
Dichlorodifluoromethane	U		0.0327	0.100	1	09/24/2020 14:09	WG1547998
1,1-Dichloroethane	U		0.0230	0.100	1	09/24/2020 14:09	WG1547998
1,2-Dichloroethane	U		0.0190	0.100	1	09/24/2020 14:09	WG1547998
1,1-Dichloroethene	U		0.0200	0.100	1	09/24/2020 14:09	WG1547998
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/24/2020 14:09	WG1547998
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/24/2020 14:09	WG1547998
1,2-Dichloropropane	U		0.0508	0.200	1	09/24/2020 14:09	WG1547998
1,1-Dichloropropene	U		0.0280	0.100	1	09/24/2020 14:09	WG1547998
1,3-Dichloropropane	U		0.0700	0.200	1	09/24/2020 14:09	WG1547998
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/24/2020 14:09	WG1547998
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/24/2020 14:09	WG1547998
2,2-Dichloropropane	U		0.0317	0.100	1	09/24/2020 14:09	WG1547998
Di-isopropyl ether	U		0.0140	0.0400	1	09/24/2020 14:09	WG1547998
Ethylbenzene	U		0.0212	0.100	1	09/24/2020 14:09	WG1547998
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/24/2020 14:09	WG1547998
Isopropylbenzene	U		0.0345	0.100	1	09/24/2020 14:09	WG1547998
p-Isopropyltoluene	U		0.0932	0.200	1	09/24/2020 14:09	WG1547998
2-Butanone (MEK)	U		0.500	1.00	1	09/24/2020 14:09	WG1547998
Methylene Chloride	U		0.265	1.00	1	09/24/2020 14:09	WG1547998
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/24/2020 14:09	WG1547998
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/24/2020 14:09	WG1547998
Naphthalene	U		0.124	0.500	1	09/24/2020 14:09	WG1547998
n-Propylbenzene	U		0.0472	0.200	1	09/24/2020 14:09	WG1547998
Styrene	U		0.109	0.500	1	09/24/2020 14:09	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/24/2020 14:09	WG1547998
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/24/2020 14:09	WG1547998
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/24/2020 14:09	WG1547998
Tetrachloroethene	U		0.0280	0.100	1	09/24/2020 14:09	WG1547998
Toluene	U		0.0500	0.200	1	09/24/2020 14:09	WG1547998
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/24/2020 14:09	WG1547998
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/24/2020 14:09	WG1547998
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/24/2020 14:09	WG1547998
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/24/2020 14:09	WG1547998
Trichloroethene	U		0.0160	0.0400	1	09/24/2020 14:09	WG1547998
Trichlorofluoromethane	U	J0	0.0200	0.100	1	09/24/2020 14:09	WG1547998
1,2,3-Trichloropropane	U		0.204	0.500	1	09/24/2020 14:09	WG1547998
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/24/2020 14:09	WG1547998
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/24/2020 14:09	WG1547998
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/24/2020 14:09	WG1547998
Vinyl chloride	U	J0	0.0273	0.100	1	09/24/2020 14:09	WG1547998
Xylenes, Total	U		0.191	0.260	1	09/24/2020 14:09	WG1547998
Ethyl Ether	U		0.0170	0.100	1	09/24/2020 14:09	WG1547998
Tetrahydrofuran	U		0.0900	0.500	1	09/24/2020 14:09	WG1547998
Iodomethane	U		0.242	0.500	1	09/24/2020 14:09	WG1547998
Allyl chloride	U		0.580	1.00	1	09/24/2020 14:09	WG1547998
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/24/2020 14:09	WG1547998
(S) Toluene-d8	*112*			*75.0-131*		*09/24/2020 14:09*	WG1547998
(S) 4-Bromofluorobenzene	*90.3*			*67.0-138*		*09/24/2020 14:09*	WG1547998
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*09/24/2020 14:09*	WG1547998

Method Blank (MB)

(MB) R3572334-1 09/18/20 14:15

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Alkalinity	U		8450	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1261033-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1261033-02 09/18/20 14:25 • (DUP) R3572334-2 09/18/20 14:33

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	245000	247000	1	0.831		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1262828-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1262828-02 09/18/20 16:34 • (DUP) R3572334-4 09/18/20 16:43

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	170000	170000	1	0.0886		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3572334-3 09/18/20 15:34

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	98800	98.8	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R3572559-1 09/20/20 14:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Alkalinity	U		8450	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1262972-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1262972-01 09/20/20 17:32 • (DUP) R3572559-4 09/20/20 17:41

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	92900	92800	1	0.145		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3572559-3 09/20/20 16:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	97500	97.5	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R3571909-1 09/17/20 10:03

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

L1262881-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1262881-06 09/17/20 14:31 • (DUP) R3571909-5 09/17/20 14:44

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		15
Nitrate	U	54.7	1	200	J P1	15
Sulfate	U	U	1	0.000		15

L1262977-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1262977-04 09/17/20 21:12 • (DUP) R3571909-6 09/17/20 21:25

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	72500	72300	1	0.306		15
Nitrate	1310	1270	1	2.95		15
Sulfate	159000	158000	1	0.282	E	15

Laboratory Control Sample (LCS)

(LCS) R3571909-2 09/17/20 10:15

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	37900	94.8	80.0-120	
Nitrate	8000	8150	102	80.0-120	
Sulfate	40000	40100	100	80.0-120	

L1262881-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1262881-02 09/17/20 13:27 • (MS) R3571909-3 09/17/20 13:40 • (MSD) R3571909-4 09/17/20 13:53

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	24700	69600	69700	89.8	90.1	1	80.0-120			0.211	15
Nitrate	5000	U	4870	4860	97.3	97.2	1	80.0-120			0.0946	15
Sulfate	50000	120000	153000	154000	67.3	68.4	1	80.0-120	E J6	E J6	0.359	15

L1262977-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1262977-05 09/17/20 21:37 • (MS) R3571909-7 09/17/20 21:50

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	66200	110000	87.3	1	80.0-120	E
Nitrate	5000	421	5410	99.7	1	80.0-120	
Sulfate	50000	225000	252000	53.6	1	80.0-120	E V

Method Blank (MB)

(MB) R3572570-1 09/19/20 17:04

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	356	J	102	1000

L1262881-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1262881-04 09/19/20 20:04 • (DUP) R3572570-3 09/19/20 20:26

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	5620	5550	1	1.25		20

L1262936-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1262936-02 09/20/20 00:12 • (DUP) R3572570-6 09/20/20 00:25

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	1140	1110	1	2.57		20

Laboratory Control Sample (LCS)

(LCS) R3572570-2 09/19/20 17:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	75500	101	85.0-115	

L1262881-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1262881-06 09/19/20 22:28 • (MS) R3572570-4 09/19/20 22:49 • (MSD) R3572570-5 09/19/20 23:10

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 (Total Organic Carbon)	50000	363	48700	48500	96.6	96.2	1	80.0-120			0.453	20

L1262967-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1262967-01 09/20/20 02:11 • (MS) R3572570-7 09/20/20 02:36 • (MSD) R3572570-8 09/20/20 02:59

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 (Total Organic Carbon)	50000	3720	54100	53600	101	99.7	1	80.0-120			0.855	20

Method Blank (MB)

(MB) R3573290-2 09/22/20 18:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	U	J	48.9	100
Manganese	U		1.32	5.00

Laboratory Control Sample (LCS)

(LCS) R3573290-3 09/22/20 18:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	5000	5270	105	80.0-120	
Manganese	50.0	53.0	106	80.0-120	

L1262764-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1262764-01 09/22/20 18:59 • (MS) R3573290-5 09/22/20 19:07 • (MSD) R3573290-6 09/22/20 19:10

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	5000	4890	10300	9670	108	95.7	1	75.0-125			6.26	20
Manganese	50.0	201	256	245	110	88.3	1	75.0-125			4.34	20

Method Blank (MB)

(MB) R3573293-2 09/20/20 12:37

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	36.6	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	*91.9*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3573293-1 09/20/20 11:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	6350	115	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*108*	*78.0-120*	

L1262257-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1262257-01 09/20/20 14:06 • (MS) R3573293-3 09/20/20 20:19 • (MSD) R3573293-4 09/20/20 20:40

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	40.4	5240	5180	94.5	93.4	1	10.0-155			1.15	21
(S) a,a,a-Trifluorotoluene(FID)					*104*	*103*		*78.0-120*				

Method Blank (MB)

(MB) R3573534-2 09/23/20 09:51

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

L1262954-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1262954-01 09/23/20 09:53 • (DUP) R3573534-3 09/23/20 11:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	342	340	1	0.587		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1262881-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1262881-02 09/23/20 11:16 • (DUP) R3573534-4 09/23/20 11:51

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	2350	2420	1	2.94		20
Ethane	U	U	1	0.000		20
Ethene	15.2	15.7	1	3.24		20

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

(LCS) R3573534-1 09/23/20 09:47 • (LCSD) R3573534-5 09/23/20 12:00

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	63.5	64.8	93.7	95.6	85.0-115			2.03	20
Ethane	129	123	123	95.3	95.3	85.0-115			0.000	20
Ethene	127	118	119	92.9	93.7	85.0-115			0.844	20

Method Blank (MB)

(MB) R3574140-2 09/24/20 13:43

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678

L1262959-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1262959-01 09/24/20 14:11 • (DUP) R3574140-3 09/24/20 14:28

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	14.7	17.7	1	18.5		20

L1262977-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1262977-11 09/24/20 14:49 • (DUP) R3574140-4 09/24/20 15:12

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	1200	1400	1	15.4		20

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

(LCS) R3574140-1 09/24/20 13:32 • (LCSD) R3574140-5 09/24/20 15:15

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	68.6	73.5	101	108	85.0-115			6.90	20

Method Blank (MB)

(MB) R3574139-2 09/24/20 10:14

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

Method Blank (MB)

(MB) R3574139-2 09/24/20 10:14

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*109*			*75.0-131*
(S) 4-Bromofluorobenzene	*94.3*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3574139-1 09/24/20 09:35

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	26.8	107	10.0-160	
Acrylonitrile	25.0	26.1	104	45.0-153	
Benzene	5.00	4.51	90.2	70.0-123	
Bromobenzene	5.00	4.96	99.2	73.0-121	
Bromodichloromethane	5.00	4.63	92.6	73.0-121	
Bromoform	5.00	4.83	96.6	64.0-132	
Bromomethane	5.00	3.74	74.8	56.0-147	
n-Butylbenzene	5.00	5.18	104	68.0-135	
sec-Butylbenzene	5.00	5.73	115	74.0-130	
tert-Butylbenzene	5.00	5.31	106	75.0-127	
Carbon tetrachloride	5.00	4.48	89.6	66.0-128	
Chlorobenzene	5.00	5.05	101	76.0-128	
Chlorodibromomethane	5.00	5.14	103	74.0-127	
Chloroethane	5.00	3.89	77.8	61.0-134	
Chloroform	5.00	4.47	89.4	72.0-123	
Chloromethane	5.00	3.96	79.2	51.0-138	
2-Chlorotoluene	5.00	5.10	102	75.0-124	
4-Chlorotoluene	5.00	4.88	97.6	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	5.40	108	59.0-130	
1,2-Dibromoethane	5.00	5.29	106	74.0-128	
Dibromomethane	5.00	4.80	96.0	75.0-122	
1,2-Dichlorobenzene	5.00	5.21	104	76.0-124	
1,3-Dichlorobenzene	5.00	5.17	103	76.0-125	
1,4-Dichlorobenzene	5.00	5.07	101	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	6.60	132	45.0-143	
Dichlorodifluoromethane	5.00	4.21	84.2	43.0-156	
1,1-Dichloroethane	5.00	4.46	89.2	70.0-127	
1,2-Dichloroethane	5.00	4.75	95.0	65.0-131	
1,1-Dichloroethene	5.00	4.68	93.6	65.0-131	
cis-1,2-Dichloroethene	5.00	4.21	84.2	73.0-125	
trans-1,2-Dichloroethene	5.00	4.32	86.4	71.0-125	
1,2-Dichloropropane	5.00	4.71	94.2	74.0-125	
1,1-Dichloropropene	5.00	4.39	87.8	73.0-125	
1,3-Dichloropropane	5.00	5.16	103	80.0-125	
cis-1,3-Dichloropropene	5.00	4.46	89.2	76.0-127	
trans-1,3-Dichloropropene	5.00	5.50	110	73.0-127	
2,2-Dichloropropane	5.00	4.17	83.4	59.0-135	
Di-isopropyl ether	5.00	4.96	99.2	60.0-136	
Ethylbenzene	5.00	5.14	103	74.0-126	
Ethyl ether	5.00	5.08	102	64.0-137	

Laboratory Control Sample (LCS)

(LCS) R3574139-1 09/24/20 09:35

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexachloro-1,3-butadiene	5.00	5.21	104	57.0-150	
Iodomethane	25.0	21.3	85.2	74.0-134	
Isopropylbenzene	5.00	4.71	94.2	72.0-127	
p-Isopropyltoluene	5.00	5.37	107	72.0-133	
2-Butanone (MEK)	25.0	33.6	134	30.0-160	
Methylene Chloride	5.00	4.54	90.8	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	33.6	134	56.0-143	
Methyl tert-butyl ether	5.00	4.51	90.2	66.0-132	
Naphthalene	5.00	5.20	104	59.0-130	
n-Propylbenzene	5.00	5.10	102	74.0-126	
Styrene	5.00	4.97	99.4	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	5.42	108	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	6.10	122	68.0-128	
Tetrachloroethene	5.00	4.84	96.8	70.0-136	
Tetrahydrofuran	5.00	6.08	122	37.0-146	
Toluene	5.00	5.18	104	75.0-121	
1,1,2-Trichlorotrifluoroethane	5.00	5.14	103	61.0-139	
1,2,3-Trichlorobenzene	5.00	5.14	103	59.0-139	
1,2,4-Trichlorobenzene	5.00	5.06	101	62.0-137	
1,1,1-Trichloroethane	5.00	4.23	84.6	69.0-126	
1,1,2-Trichloroethane	5.00	5.14	103	78.0-123	
Trichloroethene	5.00	4.37	87.4	76.0-126	
Trichlorofluoromethane	5.00	3.96	79.2	61.0-142	
1,2,3-Trichloropropane	5.00	5.09	102	67.0-129	
1,2,3-Trimethylbenzene	5.00	5.14	103	74.0-124	
1,2,4-Trimethylbenzene	5.00	5.18	104	70.0-126	
1,3,5-Trimethylbenzene	5.00	5.18	104	73.0-127	
Vinyl chloride	5.00	3.83	76.6	63.0-134	
Xylenes, Total	15.0	15.3	102	72.0-127	
Allyl chloride	25.0	22.9	91.6	70.0-131	
(S) Toluene-d8			*110*	*75.0-131*	
(S) 4-Bromofluorobenzene			*90.9*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*109*	*70.0-130*	

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

Method Blank (MB)

(MB) R3574926-2 09/25/20 16:22

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Tetrachloroethene	U		0.0280	0.100
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*104*			*75.0-131*
(S) 4-Bromofluorobenzene	*105*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3574926-1 09/25/20 15:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	5.00	5.23	105	73.0-125	
Tetrachloroethene	5.00	5.81	116	70.0-136	
Vinyl chloride	5.00	4.99	99.8	63.0-134	
(S) Toluene-d8			*102*	*75.0-131*	
(S) 4-Bromofluorobenzene			*105*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*95.7*	*70.0-130*	

Method Blank (MB)

(MB) R3575329-2 09/27/20 15:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Trichloroethene	U		0.0160	0.0400
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*103*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*99.6*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3575329-1 09/27/20 13:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Trichloroethene	5.00	4.77	95.4	76.0-126	
(S) Toluene-d8			*99.6*	*75.0-131*	
(S) 4-Bromofluorobenzene			*101*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*96.9*	*70.0-130*	

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.
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 met method criteria.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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	LAO00356
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

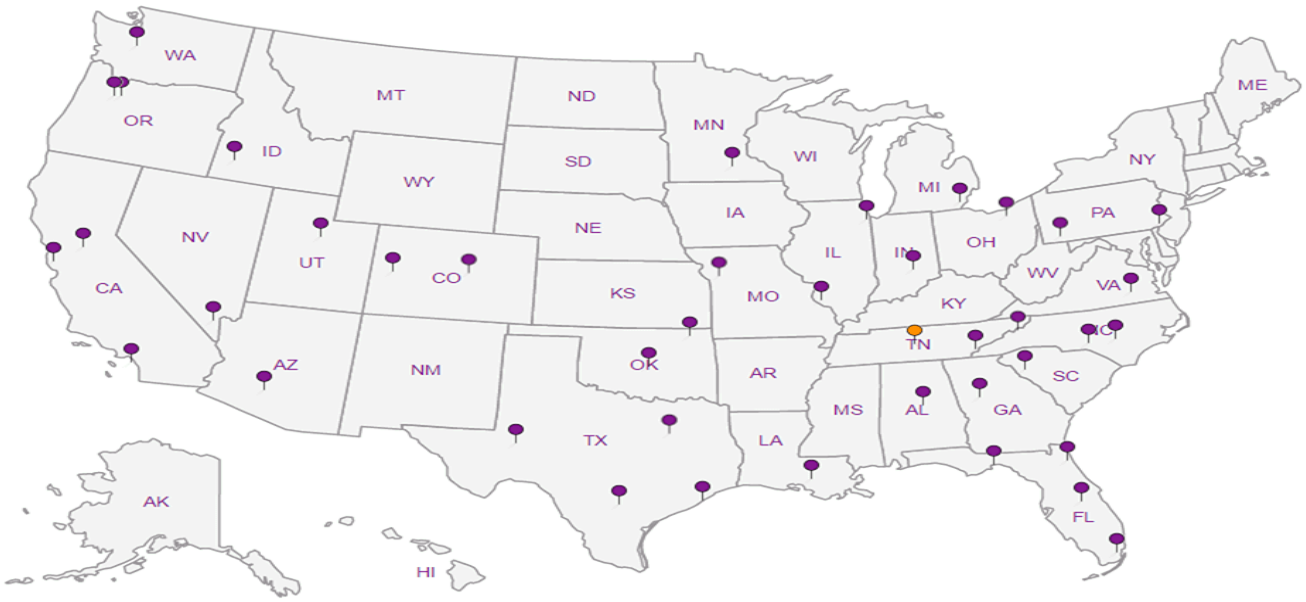
Third Party Federal Accreditations

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.



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 # 1413.001.05.601

Lab Project # PESENVSWA-ALP

Collected by (print): Ben Hecht

Site/Facility ID # American Linen

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

Quote #

Date Results Needed: Standard TAT

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHGX 40mlAmb HCl	NO3, Cl, SO4 (125mL)	ALK (125mL)	RSK 175LL (40mL)	TOC (250mL)	Total Fe Mn 6020 (250mL)	V8260 ULL (40mL)				
PRB-100-091620	Grab	GW	45	9-16-20	0815	12	X	X	X	X	X	X	X				-01
PRB-D11-091620	↓	GW	91	↓	0920	12	X	X	X	X	X	X	X				-02
PRB-B11-091620		GW	61		1025	12	X	X	X	X	X	X	X				-03
PRB-A11-091620		GW	45		1200	12	X	X	X	X	X	X	X				-04
PRB-C11-091620		GW	75		13:30	12	X	X	X	X	X	X	X				-05
EQ-091620	↓	GW	—	↓	14:30	12	X	X	X	X	X	X	X				-06
TB-091620	—	GW	—	9-16-20	15:30	2	X						X				-07
		GW															
		GW															
		GW															

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

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 # L1262881

C145

Acctnum: PESENVSWA

Template: T174216

Prelogin: P797567

PM: 546 - Jared Starkey

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 _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 9050 0887 6265

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
	9-16-20	15:30		2	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
				3.2, 3.3 12	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK
				9/17/20 9:30	

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

October 23, 2020

Revised Report

PES Environmental, Inc.- WA

Sample Delivery Group:	L1263397
Samples Received:	09/18/2020
Project Number:	1413.001.05.601
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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PRB-C14-091720 L1263397-01 GW

Collected by: BH/HC | Collected date/time: 09/17/20 09:35 | Received date/time: 09/18/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1546227	1	09/21/20 12:06	09/21/20 12:06	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1545298	1	09/18/20 13:47	09/18/20 13:47	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1546593	1	09/21/20 16:10	09/21/20 16:10	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1546505	1	09/22/20 20:58	09/23/20 19:28	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1547280	1	09/22/20 19:34	09/22/20 19:34	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548397	1	09/24/20 12:02	09/24/20 12:02	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1547998	1	09/24/20 17:56	09/24/20 17:56	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1548950	1	09/26/20 00:11	09/26/20 00:11	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1550166	1	09/27/20 18:51	09/27/20 18:51	ADM	Mt. Juliet, TN

PRB-A14-091720 L1263397-02 GW

Collected by: BH/HC | Collected date/time: 09/17/20 09:40 | Received date/time: 09/18/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1546227	1	09/21/20 12:14	09/21/20 12:14	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1545298	1	09/18/20 14:56	09/18/20 14:56	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1546224	5	09/21/20 03:35	09/21/20 03:35	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1546593	1	09/21/20 16:37	09/21/20 16:37	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1546505	1	09/22/20 20:58	09/23/20 19:31	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1547280	1	09/22/20 19:59	09/22/20 19:59	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548397	1	09/24/20 12:05	09/24/20 12:05	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1547998	1	09/24/20 18:15	09/24/20 18:15	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1548950	10	09/26/20 01:32	09/26/20 01:32	ACG	Mt. Juliet, TN

PRB-A5-091720 L1263397-03 GW

Collected by: BH/HC | Collected date/time: 09/17/20 12:30 | Received date/time: 09/18/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1546227	1	09/21/20 12:35	09/21/20 12:35	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1545298	1	09/18/20 15:41	09/18/20 15:41	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1546593	1	09/21/20 16:52	09/21/20 16:52	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1546505	1	09/22/20 20:58	09/23/20 19:34	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1547280	1	09/22/20 20:24	09/22/20 20:24	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548397	1	09/24/20 12:07	09/24/20 12:07	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548880	10	09/24/20 17:42	09/24/20 17:42	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1547998	1	09/24/20 18:34	09/24/20 18:34	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1548950	10	09/26/20 01:53	09/26/20 01:53	ACG	Mt. Juliet, TN

PRB-D4-091720 L1263397-04 GW

Collected by: BH/HC | Collected date/time: 09/17/20 12:48 | Received date/time: 09/18/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1546227	1	09/21/20 12:43	09/21/20 12:43	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1545298	1	09/18/20 15:56	09/18/20 15:56	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1546593	1	09/21/20 17:08	09/21/20 17:08	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1546505	1	09/22/20 20:58	09/23/20 19:37	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1547402	1	09/23/20 07:57	09/23/20 07:57	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548397	1	09/24/20 12:10	09/24/20 12:10	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548880	10	09/24/20 17:45	09/24/20 17:45	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1547998	1	09/24/20 18:53	09/24/20 18:53	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1548950	20	09/26/20 02:13	09/26/20 02:13	ACG	Mt. Juliet, TN

PRB-C5-091720 L1263397-05 GW

Collected by: BH/HC
Collected date/time: 09/17/20 13:55
Received date/time: 09/18/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1546227	1	09/21/20 12:52	09/21/20 12:52	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1545298	1	09/18/20 16:11	09/18/20 16:11	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1546593	1	09/21/20 17:23	09/21/20 17:23	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1546505	1	09/22/20 20:58	09/23/20 19:41	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1547402	1	09/23/20 08:22	09/23/20 08:22	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548397	1	09/24/20 13:20	09/24/20 13:20	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548880	10	09/24/20 17:48	09/24/20 17:48	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1547998	1	09/24/20 19:12	09/24/20 19:12	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1548950	10	09/26/20 02:33	09/26/20 02:33	ACG	Mt. Juliet, TN

PRB-B4-091720 L1263397-06 GW

Collected by: BH/HC
Collected date/time: 09/17/20 14:33
Received date/time: 09/18/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1546227	1	09/21/20 12:59	09/21/20 12:59	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1545298	1	09/18/20 16:26	09/18/20 16:26	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1546593	1	09/21/20 17:41	09/21/20 17:41	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1546505	1	09/22/20 20:58	09/23/20 19:44	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1547402	1	09/23/20 08:47	09/23/20 08:47	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548397	1	09/24/20 13:23	09/24/20 13:23	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548880	10	09/24/20 17:50	09/24/20 17:50	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1547998	1	09/24/20 19:31	09/24/20 19:31	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1548950	20	09/26/20 02:54	09/26/20 02:54	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

Report Revision History

Level II Report - Version 1: 09/28/20 18:26

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	227000		8450	20000	1	09/21/2020 12:06	WG1546227

Sample Narrative:
L1263397-01 WG1546227: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	47200		379	1000	1	09/18/2020 13:47	WG1545298
Nitrate	U		48.0	100	1	09/18/2020 13:47	WG1545298
Sulfate	88300		594	5000	1	09/18/2020 13:47	WG1545298

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3060		102	1000	1	09/21/2020 16:10	WG1546593

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	6240		48.9	100	1	09/23/2020 19:28	WG1546505
Manganese	240		1.32	5.00	1	09/23/2020 19:28	WG1546505

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	37.5	B J	31.6	100	1	09/22/2020 19:34	WG1547280
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*09/22/2020 19:34*	WG1547280

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	266		0.287	0.678	1	09/24/2020 12:02	WG1548397
Ethane	U		0.296	1.29	1	09/24/2020 12:02	WG1548397
Ethene	8.29		0.422	1.27	1	09/24/2020 12:02	WG1548397

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.80		0.548	1.00	1	09/24/2020 17:56	WG1547998
Acrylonitrile	U		0.0760	0.500	1	09/24/2020 17:56	WG1547998
Benzene	U		0.0160	0.0400	1	09/24/2020 17:56	WG1547998
Bromobenzene	U		0.0420	0.500	1	09/24/2020 17:56	WG1547998
Bromodichloromethane	U		0.0315	0.100	1	09/24/2020 17:56	WG1547998
Bromoform	U		0.239	1.00	1	09/24/2020 17:56	WG1547998
Bromomethane	U	J0	0.148	0.500	1	09/24/2020 17:56	WG1547998
n-Butylbenzene	U		0.153	0.500	1	09/24/2020 17:56	WG1547998
sec-Butylbenzene	U		0.101	0.500	1	09/24/2020 17:56	WG1547998
tert-Butylbenzene	U		0.0620	0.200	1	09/24/2020 17:56	WG1547998
Carbon tetrachloride	U		0.0432	0.200	1	09/24/2020 17:56	WG1547998
Chlorobenzene	U		0.0229	0.100	1	09/24/2020 17:56	WG1547998
Chlorodibromomethane	U		0.0180	0.100	1	09/24/2020 17:56	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloroethane	U	J0	0.0432	0.200	1	09/24/2020 17:56	WG1547998
Chloroform	U		0.0166	0.100	1	09/24/2020 17:56	WG1547998
Chloromethane	U	J0	0.0556	0.500	1	09/24/2020 17:56	WG1547998
2-Chlorotoluene	U		0.0368	0.100	1	09/24/2020 17:56	WG1547998
4-Chlorotoluene	U		0.0452	0.200	1	09/24/2020 17:56	WG1547998
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/24/2020 17:56	WG1547998
1,2-Dibromoethane	U		0.0210	0.100	1	09/24/2020 17:56	WG1547998
Dibromomethane	U		0.0400	0.200	1	09/24/2020 17:56	WG1547998
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/24/2020 17:56	WG1547998
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/24/2020 17:56	WG1547998
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/24/2020 17:56	WG1547998
Dichlorodifluoromethane	U		0.0327	0.100	1	09/24/2020 17:56	WG1547998
1,1-Dichloroethane	U		0.0230	0.100	1	09/24/2020 17:56	WG1547998
1,2-Dichloroethane	U		0.0190	0.100	1	09/24/2020 17:56	WG1547998
1,1-Dichloroethene	U		0.0200	0.100	1	09/24/2020 17:56	WG1547998
cis-1,2-Dichloroethene	0.127		0.0276	0.100	1	09/26/2020 00:11	WG1548950
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/24/2020 17:56	WG1547998
1,2-Dichloropropane	U		0.0508	0.200	1	09/24/2020 17:56	WG1547998
1,1-Dichloropropene	U		0.0280	0.100	1	09/24/2020 17:56	WG1547998
1,3-Dichloropropane	U		0.0700	0.200	1	09/24/2020 17:56	WG1547998
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/24/2020 17:56	WG1547998
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/24/2020 17:56	WG1547998
2,2-Dichloropropane	U		0.0317	0.100	1	09/24/2020 17:56	WG1547998
Di-isopropyl ether	U		0.0140	0.0400	1	09/24/2020 17:56	WG1547998
Ethylbenzene	U		0.0212	0.100	1	09/24/2020 17:56	WG1547998
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/24/2020 17:56	WG1547998
Isopropylbenzene	U		0.0345	0.100	1	09/24/2020 17:56	WG1547998
p-Isopropyltoluene	U		0.0932	0.200	1	09/24/2020 17:56	WG1547998
2-Butanone (MEK)	U		0.500	1.00	1	09/24/2020 17:56	WG1547998
Methylene Chloride	U		0.265	1.00	1	09/24/2020 17:56	WG1547998
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/24/2020 17:56	WG1547998
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/24/2020 17:56	WG1547998
Naphthalene	U		0.124	0.500	1	09/24/2020 17:56	WG1547998
n-Propylbenzene	U		0.0472	0.200	1	09/24/2020 17:56	WG1547998
Styrene	U		0.109	0.500	1	09/24/2020 17:56	WG1547998
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/24/2020 17:56	WG1547998
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/24/2020 17:56	WG1547998
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/24/2020 17:56	WG1547998
Tetrachloroethene	U		0.0280	0.100	1	09/26/2020 00:11	WG1548950
Toluene	0.773		0.0500	0.200	1	09/24/2020 17:56	WG1547998
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/24/2020 17:56	WG1547998
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/24/2020 17:56	WG1547998
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/24/2020 17:56	WG1547998
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/24/2020 17:56	WG1547998
Trichloroethene	0.0814		0.0160	0.0400	1	09/27/2020 18:51	WG1550166
Trichlorofluoromethane	U	J0	0.0200	0.100	1	09/24/2020 17:56	WG1547998
1,2,3-Trichloropropane	U		0.204	0.500	1	09/24/2020 17:56	WG1547998
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/24/2020 17:56	WG1547998
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/24/2020 17:56	WG1547998
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/24/2020 17:56	WG1547998
Vinyl chloride	0.575		0.0273	0.100	1	09/26/2020 00:11	WG1548950
Xylenes, Total	U		0.191	0.260	1	09/24/2020 17:56	WG1547998
Ethyl Ether	U		0.0170	0.100	1	09/24/2020 17:56	WG1547998
Tetrahydrofuran	0.0980	J	0.0900	0.500	1	09/24/2020 17:56	WG1547998
Iodomethane	U		0.242	0.500	1	09/24/2020 17:56	WG1547998
Allyl chloride	U		0.580	1.00	1	09/24/2020 17:56	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/24/2020 17:56	WG1547998
(S) Toluene-d8	*111*			*75.0-131*		*09/24/2020 17:56*	WG1547998
(S) Toluene-d8	*104*			*75.0-131*		*09/26/2020 00:11*	WG1548950
(S) Toluene-d8	*104*			*75.0-131*		*09/27/2020 18:51*	WG1550166
(S) 4-Bromofluorobenzene	*91.8*			*67.0-138*		*09/24/2020 17:56*	WG1547998
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/26/2020 00:11*	WG1548950
(S) 4-Bromofluorobenzene	*99.9*			*67.0-138*		*09/27/2020 18:51*	WG1550166
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*09/24/2020 17:56*	WG1547998
(S) 1,2-Dichloroethane-d4	*99.5*			*70.0-130*		*09/26/2020 00:11*	WG1548950
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/27/2020 18:51*	WG1550166

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	09/21/2020 12:14	WG1546227

Sample Narrative:

L1263397-02 WG1546227: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	26200		379	1000	1	09/18/2020 14:56	WG1545298
Nitrate	U		48.0	100	1	09/18/2020 14:56	WG1545298
Sulfate	201000		2970	25000	5	09/21/2020 03:35	WG1546224

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)	2480	B	102	1000	1	09/21/2020 16:37	WG1546593

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2630		48.9	100	1	09/23/2020 19:31	WG1546505
Manganese	565		1.32	5.00	1	09/23/2020 19:31	WG1546505

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	432	B	31.6	100	1	09/22/2020 19:59	WG1547280
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*09/22/2020 19:59*	WG1547280

Sample Narrative:

L1263397-02 WG1547280: No discernible 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	419		0.287	0.678	1	09/24/2020 12:05	WG1548397
Ethane	U		0.296	1.29	1	09/24/2020 12:05	WG1548397
Ethene	27.6		0.422	1.27	1	09/24/2020 12:05	WG1548397

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.38		0.548	1.00	1	09/24/2020 18:15	WG1547998
Acrylonitrile	U		0.0760	0.500	1	09/24/2020 18:15	WG1547998
Benzene	0.110		0.0160	0.0400	1	09/24/2020 18:15	WG1547998
Bromobenzene	U		0.0420	0.500	1	09/24/2020 18:15	WG1547998
Bromodichloromethane	U		0.0315	0.100	1	09/24/2020 18:15	WG1547998
Bromoform	U		0.239	1.00	1	09/24/2020 18:15	WG1547998
Bromomethane	U	J0	0.148	0.500	1	09/24/2020 18:15	WG1547998
n-Butylbenzene	U		0.153	0.500	1	09/24/2020 18:15	WG1547998
sec-Butylbenzene	U		0.101	0.500	1	09/24/2020 18:15	WG1547998
tert-Butylbenzene	U		0.0620	0.200	1	09/24/2020 18:15	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Carbon tetrachloride	U		0.0432	0.200	1	09/24/2020 18:15	WG1547998
Chlorobenzene	U		0.0229	0.100	1	09/24/2020 18:15	WG1547998
Chlorodibromomethane	U		0.0180	0.100	1	09/24/2020 18:15	WG1547998
Chloroethane	U	J0	0.0432	0.200	1	09/24/2020 18:15	WG1547998
Chloroform	U		0.0166	0.100	1	09/24/2020 18:15	WG1547998
Chloromethane	U	J0	0.0556	0.500	1	09/24/2020 18:15	WG1547998
2-Chlorotoluene	U		0.0368	0.100	1	09/24/2020 18:15	WG1547998
4-Chlorotoluene	U		0.0452	0.200	1	09/24/2020 18:15	WG1547998
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/24/2020 18:15	WG1547998
1,2-Dibromoethane	U		0.0210	0.100	1	09/24/2020 18:15	WG1547998
Dibromomethane	U		0.0400	0.200	1	09/24/2020 18:15	WG1547998
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/24/2020 18:15	WG1547998
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/24/2020 18:15	WG1547998
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/24/2020 18:15	WG1547998
Dichlorodifluoromethane	U		0.0327	0.100	1	09/24/2020 18:15	WG1547998
1,1-Dichloroethane	U		0.0230	0.100	1	09/24/2020 18:15	WG1547998
1,2-Dichloroethane	U		0.0190	0.100	1	09/24/2020 18:15	WG1547998
1,1-Dichloroethene	5.70		0.0200	0.100	1	09/24/2020 18:15	WG1547998
cis-1,2-Dichloroethene	577		0.276	1.00	10	09/26/2020 01:32	WG1548950
trans-1,2-Dichloroethene	1.84		0.0572	0.200	1	09/24/2020 18:15	WG1547998
1,2-Dichloropropane	U		0.0508	0.200	1	09/24/2020 18:15	WG1547998
1,1-Dichloropropene	U		0.0280	0.100	1	09/24/2020 18:15	WG1547998
1,3-Dichloropropane	U		0.0700	0.200	1	09/24/2020 18:15	WG1547998
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/24/2020 18:15	WG1547998
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/24/2020 18:15	WG1547998
2,2-Dichloropropane	U		0.0317	0.100	1	09/24/2020 18:15	WG1547998
Di-isopropyl ether	U		0.0140	0.0400	1	09/24/2020 18:15	WG1547998
Ethylbenzene	0.149		0.0212	0.100	1	09/24/2020 18:15	WG1547998
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/24/2020 18:15	WG1547998
Isopropylbenzene	U		0.0345	0.100	1	09/24/2020 18:15	WG1547998
p-Isopropyltoluene	U		0.0932	0.200	1	09/24/2020 18:15	WG1547998
2-Butanone (MEK)	U		0.500	1.00	1	09/24/2020 18:15	WG1547998
Methylene Chloride	U		0.265	1.00	1	09/24/2020 18:15	WG1547998
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/24/2020 18:15	WG1547998
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/24/2020 18:15	WG1547998
Naphthalene	U		0.124	0.500	1	09/24/2020 18:15	WG1547998
n-Propylbenzene	U		0.0472	0.200	1	09/24/2020 18:15	WG1547998
Styrene	U		0.109	0.500	1	09/24/2020 18:15	WG1547998
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/24/2020 18:15	WG1547998
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/24/2020 18:15	WG1547998
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/24/2020 18:15	WG1547998
Tetrachloroethene	0.522		0.0280	0.100	1	09/24/2020 18:15	WG1547998
Toluene	1.46		0.0500	0.200	1	09/24/2020 18:15	WG1547998
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/24/2020 18:15	WG1547998
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/24/2020 18:15	WG1547998
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/24/2020 18:15	WG1547998
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/24/2020 18:15	WG1547998
Trichloroethene	2.51		0.0160	0.0400	1	09/24/2020 18:15	WG1547998
Trichlorofluoromethane	U	J0	0.0200	0.100	1	09/24/2020 18:15	WG1547998
1,2,3-Trichloropropane	U		0.204	0.500	1	09/24/2020 18:15	WG1547998
1,2,4-Trimethylbenzene	0.0980	J	0.0464	0.200	1	09/24/2020 18:15	WG1547998
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/24/2020 18:15	WG1547998
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/24/2020 18:15	WG1547998
Vinyl chloride	262		0.273	1.00	10	09/26/2020 01:32	WG1548950
Xylenes, Total	0.943		0.191	0.260	1	09/24/2020 18:15	WG1547998
Ethyl Ether	U		0.0170	0.100	1	09/24/2020 18:15	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Tetrahydrofuran	0.305	J	0.0900	0.500	1	09/24/2020 18:15	WG1547998
Iodomethane	U		0.242	0.500	1	09/24/2020 18:15	WG1547998
Allyl chloride	U		0.580	1.00	1	09/24/2020 18:15	WG1547998
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/24/2020 18:15	WG1547998
(S) Toluene-d8	*111*			*75.0-131*		*09/24/2020 18:15*	WG1547998
(S) Toluene-d8	*104*			*75.0-131*		*09/26/2020 01:32*	WG1548950
(S) 4-Bromofluorobenzene	*93.1*			*67.0-138*		*09/24/2020 18:15*	WG1547998
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/26/2020 01:32*	WG1548950
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*09/24/2020 18:15*	WG1547998
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/26/2020 01:32*	WG1548950

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	543000		8450	20000	1	09/21/2020 12:35	WG1546227

Sample Narrative:

L1263397-03 WG1546227: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	20000		379	1000	1	09/18/2020 15:41	WG1545298
Nitrate	U		48.0	100	1	09/18/2020 15:41	WG1545298
Sulfate	75400		594	5000	1	09/18/2020 15:41	WG1545298

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)	14200		102	1000	1	09/21/2020 16:52	WG1546593

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	9040		48.9	100	1	09/23/2020 19:34	WG1546505
Manganese	2090		1.32	5.00	1	09/23/2020 19:34	WG1546505

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	397	B	31.6	100	1	09/22/2020 20:24	WG1547280
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*09/22/2020 20:24*	WG1547280

Sample Narrative:

L1263397-03 WG1547280: No discernible 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	12900		2.87	6.78	10	09/24/2020 17:42	WG1548880
Ethane	65.6		0.296	1.29	1	09/24/2020 12:07	WG1548397
Ethene	70.3		0.422	1.27	1	09/24/2020 12:07	WG1548397

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.44		0.548	1.00	1	09/24/2020 18:34	WG1547998
Acrylonitrile	U		0.0760	0.500	1	09/24/2020 18:34	WG1547998
Benzene	0.210		0.0160	0.0400	1	09/24/2020 18:34	WG1547998
Bromobenzene	U		0.0420	0.500	1	09/24/2020 18:34	WG1547998
Bromodichloromethane	U		0.0315	0.100	1	09/24/2020 18:34	WG1547998
Bromoform	U		0.239	1.00	1	09/24/2020 18:34	WG1547998
Bromomethane	U	J0	0.148	0.500	1	09/24/2020 18:34	WG1547998
n-Butylbenzene	U		0.153	0.500	1	09/24/2020 18:34	WG1547998
sec-Butylbenzene	U		0.101	0.500	1	09/24/2020 18:34	WG1547998
tert-Butylbenzene	U		0.0620	0.200	1	09/24/2020 18:34	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Carbon tetrachloride	U		0.0432	0.200	1	09/24/2020 18:34	WG1547998
Chlorobenzene	U		0.0229	0.100	1	09/24/2020 18:34	WG1547998
Chlorodibromomethane	U		0.0180	0.100	1	09/24/2020 18:34	WG1547998
Chloroethane	2.27	J0	0.0432	0.200	1	09/24/2020 18:34	WG1547998
Chloroform	U		0.0166	0.100	1	09/24/2020 18:34	WG1547998
Chloromethane	U	J0	0.0556	0.500	1	09/24/2020 18:34	WG1547998
2-Chlorotoluene	U		0.0368	0.100	1	09/24/2020 18:34	WG1547998
4-Chlorotoluene	U		0.0452	0.200	1	09/24/2020 18:34	WG1547998
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/24/2020 18:34	WG1547998
1,2-Dibromoethane	U		0.0210	0.100	1	09/24/2020 18:34	WG1547998
Dibromomethane	U		0.0400	0.200	1	09/24/2020 18:34	WG1547998
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/24/2020 18:34	WG1547998
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/24/2020 18:34	WG1547998
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/24/2020 18:34	WG1547998
Dichlorodifluoromethane	U		0.0327	0.100	1	09/24/2020 18:34	WG1547998
1,1-Dichloroethane	U		0.0230	0.100	1	09/24/2020 18:34	WG1547998
1,2-Dichloroethane	U		0.0190	0.100	1	09/24/2020 18:34	WG1547998
1,1-Dichloroethene	1.66		0.0200	0.100	1	09/24/2020 18:34	WG1547998
cis-1,2-Dichloroethene	523		0.276	1.00	10	09/26/2020 01:53	WG1548950
trans-1,2-Dichloroethene	4.52		0.0572	0.200	1	09/24/2020 18:34	WG1547998
1,2-Dichloropropane	U		0.0508	0.200	1	09/24/2020 18:34	WG1547998
1,1-Dichloropropene	U		0.0280	0.100	1	09/24/2020 18:34	WG1547998
1,3-Dichloropropane	U		0.0700	0.200	1	09/24/2020 18:34	WG1547998
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/24/2020 18:34	WG1547998
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/24/2020 18:34	WG1547998
2,2-Dichloropropane	U		0.0317	0.100	1	09/24/2020 18:34	WG1547998
Di-isopropyl ether	U		0.0140	0.0400	1	09/24/2020 18:34	WG1547998
Ethylbenzene	0.0490	J	0.0212	0.100	1	09/24/2020 18:34	WG1547998
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/24/2020 18:34	WG1547998
Isopropylbenzene	U		0.0345	0.100	1	09/24/2020 18:34	WG1547998
p-Isopropyltoluene	U		0.0932	0.200	1	09/24/2020 18:34	WG1547998
2-Butanone (MEK)	U		0.500	1.00	1	09/24/2020 18:34	WG1547998
Methylene Chloride	U		0.265	1.00	1	09/24/2020 18:34	WG1547998
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/24/2020 18:34	WG1547998
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/24/2020 18:34	WG1547998
Naphthalene	U		0.124	0.500	1	09/24/2020 18:34	WG1547998
n-Propylbenzene	U		0.0472	0.200	1	09/24/2020 18:34	WG1547998
Styrene	U		0.109	0.500	1	09/24/2020 18:34	WG1547998
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/24/2020 18:34	WG1547998
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/24/2020 18:34	WG1547998
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/24/2020 18:34	WG1547998
Tetrachloroethene	0.0560	J	0.0280	0.100	1	09/24/2020 18:34	WG1547998
Toluene	0.623		0.0500	0.200	1	09/24/2020 18:34	WG1547998
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/24/2020 18:34	WG1547998
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/24/2020 18:34	WG1547998
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/24/2020 18:34	WG1547998
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/24/2020 18:34	WG1547998
Trichloroethene	0.0990		0.0160	0.0400	1	09/24/2020 18:34	WG1547998
Trichlorofluoromethane	U	J0	0.0200	0.100	1	09/24/2020 18:34	WG1547998
1,2,3-Trichloropropane	U		0.204	0.500	1	09/24/2020 18:34	WG1547998
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/24/2020 18:34	WG1547998
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/24/2020 18:34	WG1547998
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/24/2020 18:34	WG1547998
Vinyl chloride	299		0.273	1.00	10	09/26/2020 01:53	WG1548950
Xylenes, Total	0.198	J	0.191	0.260	1	09/24/2020 18:34	WG1547998
Ethyl Ether	0.0870	J	0.0170	0.100	1	09/24/2020 18:34	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Tetrahydrofuran	2.53		0.0900	0.500	1	09/24/2020 18:34	WG1547998
Iodomethane	U		0.242	0.500	1	09/24/2020 18:34	WG1547998
Allyl chloride	U		0.580	1.00	1	09/24/2020 18:34	WG1547998
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/24/2020 18:34	WG1547998
(S) Toluene-d8	*108*			*75.0-131*		*09/24/2020 18:34*	WG1547998
(S) Toluene-d8	*103*			*75.0-131*		*09/26/2020 01:53*	WG1548950
(S) 4-Bromofluorobenzene	*89.1*			*67.0-138*		*09/24/2020 18:34*	WG1547998
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/26/2020 01:53*	WG1548950
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*09/24/2020 18:34*	WG1547998
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/26/2020 01:53*	WG1548950

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	713000		8450	20000	1	09/21/2020 12:43	WG1546227

Sample Narrative:

L1263397-04 WG1546227: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	56700		379	1000	1	09/18/2020 15:56	WG1545298
Nitrate	U		48.0	100	1	09/18/2020 15:56	WG1545298
Sulfate	48000		594	5000	1	09/18/2020 15:56	WG1545298

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	32700		102	1000	1	09/21/2020 17:08	WG1546593

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	19100		48.9	100	1	09/23/2020 19:37	WG1546505
Manganese	1960		1.32	5.00	1	09/23/2020 19:37	WG1546505

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	374	B	31.6	100	1	09/23/2020 07:57	WG1547402
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*09/23/2020 07:57*	WG1547402

Sample Narrative:

L1263397-04 WG1547402: No discernible petroleum pattern present

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	19800		2.87	6.78	10	09/24/2020 17:45	WG1548880
Ethane	343		0.296	1.29	1	09/24/2020 12:10	WG1548397
Ethene	468		0.422	1.27	1	09/24/2020 12:10	WG1548397

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.39		0.548	1.00	1	09/24/2020 18:53	WG1547998
Acrylonitrile	U		0.0760	0.500	1	09/24/2020 18:53	WG1547998
Benzene	0.178		0.0160	0.0400	1	09/24/2020 18:53	WG1547998
Bromobenzene	U		0.0420	0.500	1	09/24/2020 18:53	WG1547998
Bromodichloromethane	U		0.0315	0.100	1	09/24/2020 18:53	WG1547998
Bromoform	U		0.239	1.00	1	09/24/2020 18:53	WG1547998
Bromomethane	U	J0	0.148	0.500	1	09/24/2020 18:53	WG1547998
n-Butylbenzene	U		0.153	0.500	1	09/24/2020 18:53	WG1547998
sec-Butylbenzene	U		0.101	0.500	1	09/24/2020 18:53	WG1547998
tert-Butylbenzene	U		0.0620	0.200	1	09/24/2020 18:53	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Carbon tetrachloride	U		0.0432	0.200	1	09/24/2020 18:53	WG1547998
Chlorobenzene	U		0.0229	0.100	1	09/24/2020 18:53	WG1547998
Chlorodibromomethane	U		0.0180	0.100	1	09/24/2020 18:53	WG1547998
Chloroethane	U	J0	0.0432	0.200	1	09/24/2020 18:53	WG1547998
Chloroform	U		0.0166	0.100	1	09/24/2020 18:53	WG1547998
Chloromethane	U	J0	0.0556	0.500	1	09/24/2020 18:53	WG1547998
2-Chlorotoluene	U		0.0368	0.100	1	09/24/2020 18:53	WG1547998
4-Chlorotoluene	U		0.0452	0.200	1	09/24/2020 18:53	WG1547998
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/24/2020 18:53	WG1547998
1,2-Dibromoethane	U		0.0210	0.100	1	09/24/2020 18:53	WG1547998
Dibromomethane	U		0.0400	0.200	1	09/24/2020 18:53	WG1547998
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/24/2020 18:53	WG1547998
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/24/2020 18:53	WG1547998
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/24/2020 18:53	WG1547998
Dichlorodifluoromethane	U		0.0327	0.100	1	09/24/2020 18:53	WG1547998
1,1-Dichloroethane	U		0.0230	0.100	1	09/24/2020 18:53	WG1547998
1,2-Dichloroethane	U		0.0190	0.100	1	09/24/2020 18:53	WG1547998
1,1-Dichloroethene	0.752		0.0200	0.100	1	09/24/2020 18:53	WG1547998
cis-1,2-Dichloroethene	480		0.552	2.00	20	09/26/2020 02:13	WG1548950
trans-1,2-Dichloroethene	4.37		0.0572	0.200	1	09/24/2020 18:53	WG1547998
1,2-Dichloropropane	U		0.0508	0.200	1	09/24/2020 18:53	WG1547998
1,1-Dichloropropene	U		0.0280	0.100	1	09/24/2020 18:53	WG1547998
1,3-Dichloropropane	U		0.0700	0.200	1	09/24/2020 18:53	WG1547998
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/24/2020 18:53	WG1547998
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/24/2020 18:53	WG1547998
2,2-Dichloropropane	U		0.0317	0.100	1	09/24/2020 18:53	WG1547998
Di-isopropyl ether	U		0.0140	0.0400	1	09/24/2020 18:53	WG1547998
Ethylbenzene	0.188		0.0212	0.100	1	09/24/2020 18:53	WG1547998
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/24/2020 18:53	WG1547998
Isopropylbenzene	U		0.0345	0.100	1	09/24/2020 18:53	WG1547998
p-Isopropyltoluene	U		0.0932	0.200	1	09/24/2020 18:53	WG1547998
2-Butanone (MEK)	U		0.500	1.00	1	09/24/2020 18:53	WG1547998
Methylene Chloride	U		0.265	1.00	1	09/24/2020 18:53	WG1547998
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/24/2020 18:53	WG1547998
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/24/2020 18:53	WG1547998
Naphthalene	U		0.124	0.500	1	09/24/2020 18:53	WG1547998
n-Propylbenzene	U		0.0472	0.200	1	09/24/2020 18:53	WG1547998
Styrene	U		0.109	0.500	1	09/24/2020 18:53	WG1547998
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/24/2020 18:53	WG1547998
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/24/2020 18:53	WG1547998
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/24/2020 18:53	WG1547998
Tetrachloroethene	0.0870	J	0.0280	0.100	1	09/24/2020 18:53	WG1547998
Toluene	2.01		0.0500	0.200	1	09/24/2020 18:53	WG1547998
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/24/2020 18:53	WG1547998
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/24/2020 18:53	WG1547998
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/24/2020 18:53	WG1547998
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/24/2020 18:53	WG1547998
Trichloroethene	0.447		0.0160	0.0400	1	09/24/2020 18:53	WG1547998
Trichlorofluoromethane	U	J0	0.0200	0.100	1	09/24/2020 18:53	WG1547998
1,2,3-Trichloropropane	U		0.204	0.500	1	09/24/2020 18:53	WG1547998
1,2,4-Trimethylbenzene	0.0890	J	0.0464	0.200	1	09/24/2020 18:53	WG1547998
1,2,3-Trimethylbenzene	0.0540	J	0.0460	0.200	1	09/24/2020 18:53	WG1547998
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/24/2020 18:53	WG1547998
Vinyl chloride	530		0.546	2.00	20	09/26/2020 02:13	WG1548950
Xylenes, Total	0.927		0.191	0.260	1	09/24/2020 18:53	WG1547998
Ethyl Ether	0.0740	J	0.0170	0.100	1	09/24/2020 18:53	WG1547998

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	
Tetrahydrofuran	0.453	J	0.0900	0.500	1	09/24/2020 18:53	WG1547998
Iodomethane	U		0.242	0.500	1	09/24/2020 18:53	WG1547998
Allyl chloride	U		0.580	1.00	1	09/24/2020 18:53	WG1547998
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/24/2020 18:53	WG1547998
(S) Toluene-d8	*108*			*75.0-131*		*09/24/2020 18:53*	WG1547998
(S) Toluene-d8	*103*			*75.0-131*		*09/26/2020 02:13*	WG1548950
(S) 4-Bromofluorobenzene	*91.0*			*67.0-138*		*09/24/2020 18:53*	WG1547998
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/26/2020 02:13*	WG1548950
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*09/24/2020 18:53*	WG1547998
(S) 1,2-Dichloroethane-d4	*99.9*			*70.0-130*		*09/26/2020 02:13*	WG1548950

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	590000		8450	20000	1	09/21/2020 12:52	WG1546227

Sample Narrative:

L1263397-05 WG1546227: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	31100		379	1000	1	09/18/2020 16:11	WG1545298
Nitrate	U		48.0	100	1	09/18/2020 16:11	WG1545298
Sulfate	60500		594	5000	1	09/18/2020 16:11	WG1545298

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)	16000		102	1000	1	09/21/2020 17:23	WG1546593

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	4920		48.9	100	1	09/23/2020 19:41	WG1546505
Manganese	778		1.32	5.00	1	09/23/2020 19:41	WG1546505

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	199	B	31.6	100	1	09/23/2020 08:22	WG1547402
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*09/23/2020 08:22*	WG1547402

Sample Narrative:

L1263397-05 WG1547402: No discernible 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	11200		2.87	6.78	10	09/24/2020 17:48	WG1548880
Ethane	58.1		0.296	1.29	1	09/24/2020 13:20	WG1548397
Ethene	112		0.422	1.27	1	09/24/2020 13:20	WG1548397

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.38		0.548	1.00	1	09/24/2020 19:12	WG1547998
Acrylonitrile	U		0.0760	0.500	1	09/24/2020 19:12	WG1547998
Benzene	0.155		0.0160	0.0400	1	09/24/2020 19:12	WG1547998
Bromobenzene	U		0.0420	0.500	1	09/24/2020 19:12	WG1547998
Bromodichloromethane	U		0.0315	0.100	1	09/24/2020 19:12	WG1547998
Bromoform	U		0.239	1.00	1	09/24/2020 19:12	WG1547998
Bromomethane	U	J0	0.148	0.500	1	09/24/2020 19:12	WG1547998
n-Butylbenzene	U		0.153	0.500	1	09/24/2020 19:12	WG1547998
sec-Butylbenzene	U		0.101	0.500	1	09/24/2020 19:12	WG1547998
tert-Butylbenzene	U		0.0620	0.200	1	09/24/2020 19:12	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Carbon tetrachloride	U		0.0432	0.200	1	09/24/2020 19:12	WG1547998
Chlorobenzene	U		0.0229	0.100	1	09/24/2020 19:12	WG1547998
Chlorodibromomethane	U		0.0180	0.100	1	09/24/2020 19:12	WG1547998
Chloroethane	U	J0	0.0432	0.200	1	09/24/2020 19:12	WG1547998
Chloroform	U		0.0166	0.100	1	09/24/2020 19:12	WG1547998
Chloromethane	U	J0	0.0556	0.500	1	09/24/2020 19:12	WG1547998
2-Chlorotoluene	U		0.0368	0.100	1	09/24/2020 19:12	WG1547998
4-Chlorotoluene	U		0.0452	0.200	1	09/24/2020 19:12	WG1547998
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/24/2020 19:12	WG1547998
1,2-Dibromoethane	U		0.0210	0.100	1	09/24/2020 19:12	WG1547998
Dibromomethane	U		0.0400	0.200	1	09/24/2020 19:12	WG1547998
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/24/2020 19:12	WG1547998
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/24/2020 19:12	WG1547998
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/24/2020 19:12	WG1547998
Dichlorodifluoromethane	U		0.0327	0.100	1	09/24/2020 19:12	WG1547998
1,1-Dichloroethane	U		0.0230	0.100	1	09/24/2020 19:12	WG1547998
1,2-Dichloroethane	U		0.0190	0.100	1	09/24/2020 19:12	WG1547998
1,1-Dichloroethene	0.607		0.0200	0.100	1	09/24/2020 19:12	WG1547998
cis-1,2-Dichloroethene	217		0.276	1.00	10	09/26/2020 02:33	WG1548950
trans-1,2-Dichloroethene	1.74		0.0572	0.200	1	09/24/2020 19:12	WG1547998
1,2-Dichloropropane	U		0.0508	0.200	1	09/24/2020 19:12	WG1547998
1,1-Dichloropropene	U		0.0280	0.100	1	09/24/2020 19:12	WG1547998
1,3-Dichloropropane	U		0.0700	0.200	1	09/24/2020 19:12	WG1547998
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/24/2020 19:12	WG1547998
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/24/2020 19:12	WG1547998
2,2-Dichloropropane	U		0.0317	0.100	1	09/24/2020 19:12	WG1547998
Di-isopropyl ether	U		0.0140	0.0400	1	09/24/2020 19:12	WG1547998
Ethylbenzene	0.125		0.0212	0.100	1	09/24/2020 19:12	WG1547998
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/24/2020 19:12	WG1547998
Isopropylbenzene	U		0.0345	0.100	1	09/24/2020 19:12	WG1547998
p-Isopropyltoluene	U		0.0932	0.200	1	09/24/2020 19:12	WG1547998
2-Butanone (MEK)	U		0.500	1.00	1	09/24/2020 19:12	WG1547998
Methylene Chloride	U		0.265	1.00	1	09/24/2020 19:12	WG1547998
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/24/2020 19:12	WG1547998
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/24/2020 19:12	WG1547998
Naphthalene	U		0.124	0.500	1	09/24/2020 19:12	WG1547998
n-Propylbenzene	U		0.0472	0.200	1	09/24/2020 19:12	WG1547998
Styrene	U		0.109	0.500	1	09/24/2020 19:12	WG1547998
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/24/2020 19:12	WG1547998
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/24/2020 19:12	WG1547998
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/24/2020 19:12	WG1547998
Tetrachloroethene	0.0680	J	0.0280	0.100	1	09/24/2020 19:12	WG1547998
Toluene	1.22		0.0500	0.200	1	09/24/2020 19:12	WG1547998
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/24/2020 19:12	WG1547998
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/24/2020 19:12	WG1547998
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/24/2020 19:12	WG1547998
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/24/2020 19:12	WG1547998
Trichloroethene	0.141		0.0160	0.0400	1	09/24/2020 19:12	WG1547998
Trichlorofluoromethane	U	J0	0.0200	0.100	1	09/24/2020 19:12	WG1547998
1,2,3-Trichloropropane	U		0.204	0.500	1	09/24/2020 19:12	WG1547998
1,2,4-Trimethylbenzene	0.0640	J	0.0464	0.200	1	09/24/2020 19:12	WG1547998
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/24/2020 19:12	WG1547998
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/24/2020 19:12	WG1547998
Vinyl chloride	350		0.273	1.00	10	09/26/2020 02:33	WG1548950
Xylenes, Total	0.534		0.191	0.260	1	09/24/2020 19:12	WG1547998
Ethyl Ether	0.0680	J	0.0170	0.100	1	09/24/2020 19:12	WG1547998

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	
Tetrahydrofuran	0.554		0.0900	0.500	1	09/24/2020 19:12	WG1547998
Iodomethane	U		0.242	0.500	1	09/24/2020 19:12	WG1547998
Allyl chloride	U		0.580	1.00	1	09/24/2020 19:12	WG1547998
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/24/2020 19:12	WG1547998
(S) Toluene-d8	*107*			*75.0-131*		*09/24/2020 19:12*	WG1547998
(S) Toluene-d8	*103*			*75.0-131*		*09/26/2020 02:33*	WG1548950
(S) 4-Bromofluorobenzene	*89.6*			*67.0-138*		*09/24/2020 19:12*	WG1547998
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/26/2020 02:33*	WG1548950
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*09/24/2020 19:12*	WG1547998
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/26/2020 02:33*	WG1548950

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	696000		8450	20000	1	09/21/2020 12:59	WG1546227

Sample Narrative:

L1263397-06 WG1546227: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	58700		379	1000	1	09/18/2020 16:26	WG1545298
Nitrate	U		48.0	100	1	09/18/2020 16:26	WG1545298
Sulfate	44300		594	5000	1	09/18/2020 16:26	WG1545298

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)	30700		102	1000	1	09/21/2020 17:41	WG1546593

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	22200		48.9	100	1	09/23/2020 19:44	WG1546505
Manganese	1910		1.32	5.00	1	09/23/2020 19:44	WG1546505

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	652		31.6	100	1	09/23/2020 08:47	WG1547402
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*09/23/2020 08:47*	WG1547402

Sample Narrative:

L1263397-06 WG1547402: No discernible 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	29100		2.87	6.78	10	09/24/2020 17:50	WG1548880
Ethane	609		0.296	1.29	1	09/24/2020 13:23	WG1548397
Ethene	671		0.422	1.27	1	09/24/2020 13:23	WG1548397

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.70		0.548	1.00	1	09/24/2020 19:31	WG1547998
Acrylonitrile	U		0.0760	0.500	1	09/24/2020 19:31	WG1547998
Benzene	0.165		0.0160	0.0400	1	09/24/2020 19:31	WG1547998
Bromobenzene	U		0.0420	0.500	1	09/24/2020 19:31	WG1547998
Bromodichloromethane	U		0.0315	0.100	1	09/24/2020 19:31	WG1547998
Bromoform	U		0.239	1.00	1	09/24/2020 19:31	WG1547998
Bromomethane	U	J0	0.148	0.500	1	09/24/2020 19:31	WG1547998
n-Butylbenzene	U		0.153	0.500	1	09/24/2020 19:31	WG1547998
sec-Butylbenzene	U		0.101	0.500	1	09/24/2020 19:31	WG1547998
tert-Butylbenzene	U		0.0620	0.200	1	09/24/2020 19:31	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Carbon tetrachloride	U		0.0432	0.200	1	09/24/2020 19:31	WG1547998
Chlorobenzene	U		0.0229	0.100	1	09/24/2020 19:31	WG1547998
Chlorodibromomethane	U		0.0180	0.100	1	09/24/2020 19:31	WG1547998
Chloroethane	U	J0	0.0432	0.200	1	09/24/2020 19:31	WG1547998
Chloroform	U		0.0166	0.100	1	09/24/2020 19:31	WG1547998
Chloromethane	U	J0	0.0556	0.500	1	09/24/2020 19:31	WG1547998
2-Chlorotoluene	U		0.0368	0.100	1	09/24/2020 19:31	WG1547998
4-Chlorotoluene	U		0.0452	0.200	1	09/24/2020 19:31	WG1547998
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/24/2020 19:31	WG1547998
1,2-Dibromoethane	U		0.0210	0.100	1	09/24/2020 19:31	WG1547998
Dibromomethane	U		0.0400	0.200	1	09/24/2020 19:31	WG1547998
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/24/2020 19:31	WG1547998
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/24/2020 19:31	WG1547998
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/24/2020 19:31	WG1547998
Dichlorodifluoromethane	U		0.0327	0.100	1	09/24/2020 19:31	WG1547998
1,1-Dichloroethane	U		0.0230	0.100	1	09/24/2020 19:31	WG1547998
1,2-Dichloroethane	0.0440	J	0.0190	0.100	1	09/24/2020 19:31	WG1547998
1,1-Dichloroethene	1.45		0.0200	0.100	1	09/24/2020 19:31	WG1547998
cis-1,2-Dichloroethene	853		0.552	2.00	20	09/26/2020 02:54	WG1548950
trans-1,2-Dichloroethene	6.16		0.0572	0.200	1	09/24/2020 19:31	WG1547998
1,2-Dichloropropane	U		0.0508	0.200	1	09/24/2020 19:31	WG1547998
1,1-Dichloropropene	U		0.0280	0.100	1	09/24/2020 19:31	WG1547998
1,3-Dichloropropane	U		0.0700	0.200	1	09/24/2020 19:31	WG1547998
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/24/2020 19:31	WG1547998
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/24/2020 19:31	WG1547998
2,2-Dichloropropane	0.0380	J	0.0317	0.100	1	09/24/2020 19:31	WG1547998
Di-isopropyl ether	U		0.0140	0.0400	1	09/24/2020 19:31	WG1547998
Ethylbenzene	U		0.0212	0.100	1	09/24/2020 19:31	WG1547998
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/24/2020 19:31	WG1547998
Isopropylbenzene	U		0.0345	0.100	1	09/24/2020 19:31	WG1547998
p-Isopropyltoluene	U		0.0932	0.200	1	09/24/2020 19:31	WG1547998
2-Butanone (MEK)	U		0.500	1.00	1	09/24/2020 19:31	WG1547998
Methylene Chloride	U		0.265	1.00	1	09/24/2020 19:31	WG1547998
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/24/2020 19:31	WG1547998
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/24/2020 19:31	WG1547998
Naphthalene	U		0.124	0.500	1	09/24/2020 19:31	WG1547998
n-Propylbenzene	U		0.0472	0.200	1	09/24/2020 19:31	WG1547998
Styrene	U		0.109	0.500	1	09/24/2020 19:31	WG1547998
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/24/2020 19:31	WG1547998
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/24/2020 19:31	WG1547998
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/24/2020 19:31	WG1547998
Tetrachloroethene	0.128		0.0280	0.100	1	09/24/2020 19:31	WG1547998
Toluene	0.613		0.0500	0.200	1	09/24/2020 19:31	WG1547998
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/24/2020 19:31	WG1547998
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/24/2020 19:31	WG1547998
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/24/2020 19:31	WG1547998
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/24/2020 19:31	WG1547998
Trichloroethene	2.48		0.0160	0.0400	1	09/24/2020 19:31	WG1547998
Trichlorofluoromethane	U	J0	0.0200	0.100	1	09/24/2020 19:31	WG1547998
1,2,3-Trichloropropane	U		0.204	0.500	1	09/24/2020 19:31	WG1547998
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/24/2020 19:31	WG1547998
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/24/2020 19:31	WG1547998
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/24/2020 19:31	WG1547998
Vinyl chloride	723		0.546	2.00	20	09/26/2020 02:54	WG1548950
Xylenes, Total	U		0.191	0.260	1	09/24/2020 19:31	WG1547998
Ethyl Ether	0.0660	J	0.0170	0.100	1	09/24/2020 19:31	WG1547998

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Tetrahydrofuran	0.256	J	0.0900	0.500	1	09/24/2020 19:31	WG1547998
Iodomethane	U		0.242	0.500	1	09/24/2020 19:31	WG1547998
Allyl chloride	U		0.580	1.00	1	09/24/2020 19:31	WG1547998
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/24/2020 19:31	WG1547998
(S) Toluene-d8	*113*			*75.0-131*		*09/24/2020 19:31*	WG1547998
(S) Toluene-d8	*104*			*75.0-131*		*09/26/2020 02:54*	WG1548950
(S) 4-Bromofluorobenzene	*88.6*			*67.0-138*		*09/24/2020 19:31*	WG1547998
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/26/2020 02:54*	WG1548950
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*09/24/2020 19:31*	WG1547998
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/26/2020 02:54*	WG1548950

Method Blank (MB)

(MB) R3572763-1 09/21/20 10:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Alkalinity	U		8450	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1263117-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1263117-02 09/21/20 10:58 • (DUP) R3572763-2 09/21/20 11:05

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	183000	186000	1	1.83		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1264167-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1264167-05 09/21/20 14:16 • (DUP) R3572763-4 09/21/20 14:27

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	219000	216000	1	1.47		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3572763-3 09/21/20 12:25

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	97200	97.2	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R3572368-1 09/18/20 08:14

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

L1263375-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1263375-01 09/18/20 12:48 • (DUP) R3572368-3 09/18/20 13:03

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	443000	438000	10	1.13		15
Nitrate	30500	30500	10	0.0443		15
Sulfate	165000	164000	10	0.937		15

L1263404-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1263404-02 09/18/20 17:03 • (DUP) R3572368-6 09/18/20 17:18

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	142000	142000	1	0.190	E	15
Nitrate	3580	3580	1	0.0112		15
Sulfate	27600	27600	1	0.0334		15

Laboratory Control Sample (LCS)

(LCS) R3572368-2 09/18/20 08:29

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	39800	99.6	80.0-120	
Nitrate	8000	7930	99.1	80.0-120	
Sulfate	40000	40800	102	80.0-120	

L1263397-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1263397-01 09/18/20 13:47 • (MS) R3572368-4 09/18/20 14:02 • (MSD) R3572368-5 09/18/20 14:17

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	47200	97000	97300	99.6	100	1	80.0-120			0.340	15
Nitrate	5000	U	5560	5610	111	112	1	80.0-120			0.757	15
Sulfate	50000	88300	139000	139000	102	102	1	80.0-120	E	E	0.107	15

L1263452-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1263452-08 09/18/20 20:17 • (MS) R3572368-7 09/18/20 20:32

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	70500	121000	101	1	80.0-120	E
Nitrate	5000	U	5840	117	1	80.0-120	
Sulfate	50000	297000	344000	93.3	1	80.0-120	E

Method Blank (MB)

(MB) R3572649-1 09/20/20 21:14

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Sulfate	U		594	5000

L1262967-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1262967-01 09/21/20 01:26 • (DUP) R3572649-3 09/21/20 01:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Sulfate	14500	14500	1	0.146		15

L1263502-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1263502-01 09/21/20 05:08 • (DUP) R3572649-6 09/21/20 05:26

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Sulfate	27500	27500	1	0.0276		15

Laboratory Control Sample (LCS)

(LCS) R3572649-2 09/20/20 21:32

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Sulfate	40000	41900	105	80.0-120	

L1262967-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1262967-01 09/21/20 01:26 • (MS) R3572649-4 09/21/20 02:40 • (MSD) R3572649-5 09/21/20 02:59

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	%	%		%			%	%
Sulfate	50000	14500	64800	64600	101	100	1	80.0-120			0.322	15

L1263502-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1263502-01 09/21/20 05:08 • (MS) R3572649-7 09/21/20 06:21

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	ug/l	ug/l	ug/l	%		%	
Sulfate	50000	27500	80300	106	1	80.0-120	

Method Blank (MB)

(MB) R3572978-1 09/21/20 11:28

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	284	J	102	1000

L1260097-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1260097-03 09/21/20 13:06 • (DUP) R3572978-3 09/21/20 13:18

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	2850	2860	1	0.420		20

L1263397-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1263397-01 09/21/20 16:10 • (DUP) R3572978-6 09/21/20 16:22

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	3060	3060	1	0.229		20

Laboratory Control Sample (LCS)

(LCS) R3572978-2 09/21/20 11:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	76700	102	85.0-115	

L1260097-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1260097-05 09/21/20 13:44 • (MS) R3572978-4 09/21/20 13:59 • (MSD) R3572978-5 09/21/20 14:13

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 (Total Organic Carbon)	50000	2120	53900	55600	104	107	1	80.0-120			3.12	20

L1263530-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1263530-07 09/21/20 19:36 • (MS) R3572978-7 09/21/20 19:49 • (MSD) R3572978-8 09/21/20 20:02

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 (Total Organic Carbon)	50000	274	49800	50200	99.1	99.9	1	80.0-120			0.780	20

Method Blank (MB)

(MB) R3573747-1 09/23/20 18:41

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

Laboratory Control Sample (LCS)

(LCS) R3573747-2 09/23/20 18:44

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	5000	4670	93.4	80.0-120	
Manganese	50.0	49.2	98.5	80.0-120	

L1263674-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1263674-03 09/23/20 18:47 • (MS) R3573747-4 09/23/20 18:54 • (MSD) R3573747-5 09/23/20 18:57

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	11300	16000	15900	94.3	90.5	1	75.0-125			1.17	20
Manganese	50.0	1150	1200	1220	116	145	1	75.0-125		V	1.17	20

Method Blank (MB)

(MB) R3573701-2 09/22/20 14:59

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	49.0	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3573701-1 09/22/20 14:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5030	91.5	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*98.4*	*78.0-120*	

Method Blank (MB)

(MB) R3573564-2 09/23/20 03:11

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	47.8	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3573564-1 09/23/20 02:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5550	101	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*104*	*78.0-120*	

Method Blank (MB)

(MB) R3574055-2 09/24/20 11:17

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

L1263225-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1263225-01 09/24/20 11:36 • (DUP) R3574055-3 09/24/20 11:50

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	198	211	1	6.36		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1263225-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1263225-16 09/24/20 12:00 • (DUP) R3574055-4 09/24/20 13:30

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
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) R3574055-1 09/24/20 11:14 • (LCSD) R3574055-5 09/24/20 13:32

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	65.1	68.6	96.0	101	85.0-115			5.24	20
Ethane	129	123	123	95.3	95.3	85.0-115			0.000	20
Ethene	127	119	119	93.7	93.7	85.0-115			0.000	20

Method Blank (MB)

(MB) R3574190-2 09/24/20 17:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678

L1263397-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1263397-06 09/24/20 17:50 • (DUP) R3574190-3 09/24/20 17:54

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	29100	29700	10	2.04		20

Laboratory Control Sample (LCS)

(LCS) R3574190-1 09/24/20 17:24

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Methane	67.8	65.1	96.0	85.0-115	

Method Blank (MB)

(MB) R3574139-2 09/24/20 10:14

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00

Method Blank (MB)

(MB) R3574139-2 09/24/20 10:14

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*109*			*75.0-131*
(S) 4-Bromofluorobenzene	*94.3*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3574139-1 09/24/20 09:35

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	26.8	107	10.0-160	
Acrylonitrile	25.0	26.1	104	45.0-153	

Laboratory Control Sample (LCS)

(LCS) R3574139-1 09/24/20 09:35

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	5.00	4.51	90.2	70.0-123	
Bromobenzene	5.00	4.96	99.2	73.0-121	
Bromodichloromethane	5.00	4.63	92.6	73.0-121	
Bromoform	5.00	4.83	96.6	64.0-132	
Bromomethane	5.00	3.74	74.8	56.0-147	
n-Butylbenzene	5.00	5.18	104	68.0-135	
sec-Butylbenzene	5.00	5.73	115	74.0-130	
tert-Butylbenzene	5.00	5.31	106	75.0-127	
Carbon tetrachloride	5.00	4.48	89.6	66.0-128	
Chlorobenzene	5.00	5.05	101	76.0-128	
Chlorodibromomethane	5.00	5.14	103	74.0-127	
Chloroethane	5.00	3.89	77.8	61.0-134	
Chloroform	5.00	4.47	89.4	72.0-123	
Chloromethane	5.00	3.96	79.2	51.0-138	
2-Chlorotoluene	5.00	5.10	102	75.0-124	
4-Chlorotoluene	5.00	4.88	97.6	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	5.40	108	59.0-130	
1,2-Dibromoethane	5.00	5.29	106	74.0-128	
Dibromomethane	5.00	4.80	96.0	75.0-122	
1,2-Dichlorobenzene	5.00	5.21	104	76.0-124	
1,3-Dichlorobenzene	5.00	5.17	103	76.0-125	
1,4-Dichlorobenzene	5.00	5.07	101	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	6.60	132	45.0-143	
Dichlorodifluoromethane	5.00	4.21	84.2	43.0-156	
1,1-Dichloroethane	5.00	4.46	89.2	70.0-127	
1,2-Dichloroethane	5.00	4.75	95.0	65.0-131	
1,1-Dichloroethene	5.00	4.68	93.6	65.0-131	
trans-1,2-Dichloroethene	5.00	4.32	86.4	71.0-125	
1,2-Dichloropropane	5.00	4.71	94.2	74.0-125	
1,1-Dichloropropene	5.00	4.39	87.8	73.0-125	
1,3-Dichloropropane	5.00	5.16	103	80.0-125	
cis-1,3-Dichloropropene	5.00	4.46	89.2	76.0-127	
trans-1,3-Dichloropropene	5.00	5.50	110	73.0-127	
2,2-Dichloropropane	5.00	4.17	83.4	59.0-135	
Di-isopropyl ether	5.00	4.96	99.2	60.0-136	
Ethylbenzene	5.00	5.14	103	74.0-126	
Ethyl ether	5.00	5.08	102	64.0-137	
Hexachloro-1,3-butadiene	5.00	5.21	104	57.0-150	
Iodomethane	25.0	21.3	85.2	74.0-134	
Isopropylbenzene	5.00	4.71	94.2	72.0-127	

Laboratory Control Sample (LCS)

(LCS) R3574139-1 09/24/20 09:35

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
p-Isopropyltoluene	5.00	5.37	107	72.0-133	
2-Butanone (MEK)	25.0	33.6	134	30.0-160	
Methylene Chloride	5.00	4.54	90.8	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	33.6	134	56.0-143	
Methyl tert-butyl ether	5.00	4.51	90.2	66.0-132	
Naphthalene	5.00	5.20	104	59.0-130	
n-Propylbenzene	5.00	5.10	102	74.0-126	
Styrene	5.00	4.97	99.4	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	5.42	108	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	6.10	122	68.0-128	
Tetrachloroethene	5.00	4.84	96.8	70.0-136	
Tetrahydrofuran	5.00	6.08	122	37.0-146	
Toluene	5.00	5.18	104	75.0-121	
1,1,2-Trichlorotrifluoroethane	5.00	5.14	103	61.0-139	
1,2,3-Trichlorobenzene	5.00	5.14	103	59.0-139	
1,2,4-Trichlorobenzene	5.00	5.06	101	62.0-137	
1,1,1-Trichloroethane	5.00	4.23	84.6	69.0-126	
1,1,2-Trichloroethane	5.00	5.14	103	78.0-123	
Trichloroethene	5.00	4.37	87.4	76.0-126	
Trichlorofluoromethane	5.00	3.96	79.2	61.0-142	
1,2,3-Trichloropropane	5.00	5.09	102	67.0-129	
1,2,3-Trimethylbenzene	5.00	5.14	103	74.0-124	
1,2,4-Trimethylbenzene	5.00	5.18	104	70.0-126	
1,3,5-Trimethylbenzene	5.00	5.18	104	73.0-127	
Xylenes, Total	15.0	15.3	102	72.0-127	
Allyl chloride	25.0	22.9	91.6	70.0-131	
(S) Toluene-d8			*110*	*75.0-131*	
(S) 4-Bromofluorobenzene			*90.9*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*109*	*70.0-130*	

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

Method Blank (MB)

(MB) R3574926-2 09/25/20 16:22

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Tetrachloroethene	U		0.0280	0.100
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*104*			*75.0-131*
(S) 4-Bromofluorobenzene	*105*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3574926-1 09/25/20 15:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	5.00	5.23	105	73.0-125	
Tetrachloroethene	5.00	5.81	116	70.0-136	
Vinyl chloride	5.00	4.99	99.8	63.0-134	
(S) Toluene-d8			*102*	*75.0-131*	
(S) 4-Bromofluorobenzene			*105*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*95.7*	*70.0-130*	

Method Blank (MB)

(MB) R3575329-2 09/27/20 15:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Trichloroethene	U		0.0160	0.0400
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*103*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*99.6*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3575329-1 09/27/20 13:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Trichloroethene	5.00	4.77	95.4	76.0-126	
(S) Toluene-d8			*99.6*	*75.0-131*	
(S) 4-Bromofluorobenzene			*101*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*96.9*	*70.0-130*	

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.
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 met method criteria.
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	LAO00356
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

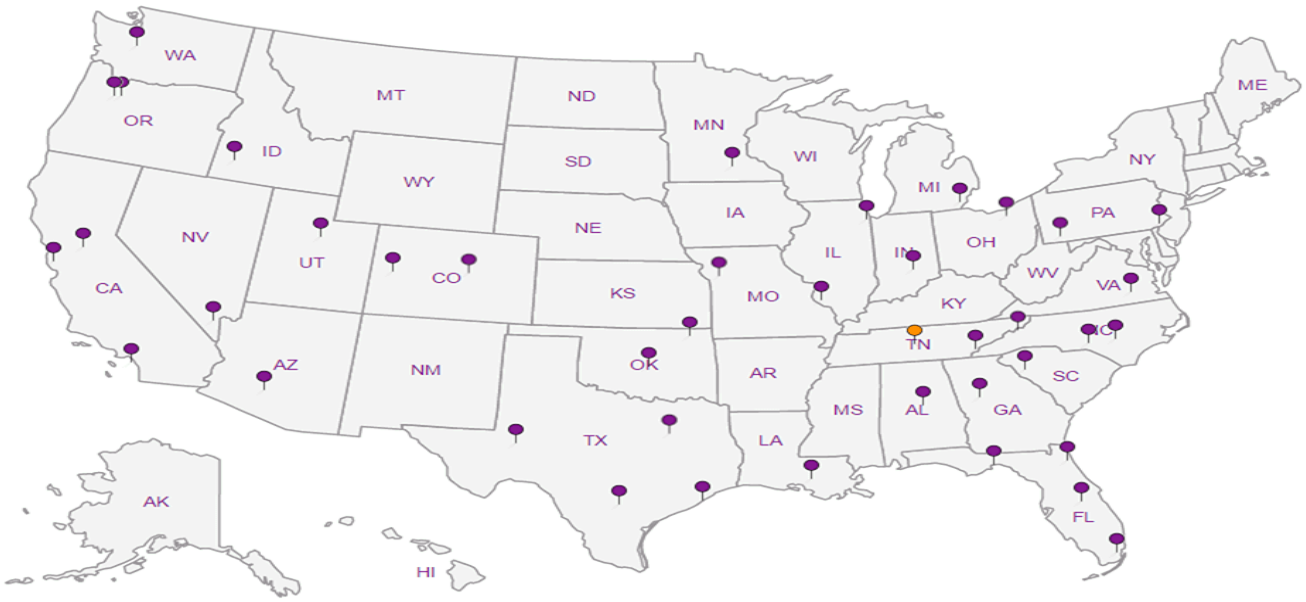
Third Party Federal Accreditations

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.



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 # 1413.001.05.601

Lab Project # PESENVSWA-ALP

Collected by (print): Ben Heeht / Hannah C.

Site/Facility ID # American Linen

P.O. #

Collected by (signature): Hannah Colvin

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed: Standard TAT

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHGX 40mlAmb HCl	NO3, SO4, Cl (125mL)	Alkalinity (125mL)	EBM RSK-175LL (40mL)	TOC (250mL)	Total Fe Mn 6020 (250mL)	VOC, LL 8260D (40mL)	Remarks	Sample # (lab only)
PRB-C14-091720	Grab	GW	80	9-17-20	9:35	12	X	X	X	X	X	X	X		-01
PRB-A14-091720		GW	50		9:40	12	X	X	X	X	X	X	X		-02
PRB-A5-091720		GW	39		12:30	12	X	X	X	X	X	X	X		-03
PRB-D4-091720		GW	88		12:48	12	X	X	X	X	X	X	X		-04
PRB-C5-091720		GW	75		13:55	12	X	X	X	X	X	X	X		-05
PRB-B4-091720	↓	GW	58.35	↓	14:33	12	X	X	X	X	X	X	X		-06
		GW													
		GW													
		GW													
		GW													

Chain of Custody Page 1 of 1

Pace Analytical® National Center for Testing & Innovation

L1263397

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

D204

Table #

Acctnum: PESENVSWA
Template: T174216
Prelogin: P797567
PM: 546 - Jared Starkey
PB:

Shipped Via:

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

Remarks: email only ok data OK, Tier 2 QA/QC OK

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __UPS __FedEx __Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Hannah Colvin	9/17/20	1600	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / (No) HCL / MeoH TBR

Temp: 3.2 °C 3.1 °C Bottles Received: 12

Date: 9-18-20 Time: 0930

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

October 23, 2020

Revised Report

PES Environmental, Inc.- WA

Sample Delivery Group:	L1263961
Samples Received:	09/19/2020
Project Number:	1413.001.05.601
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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PRB-101-091820 L1263961-01 GW

Collected by: BH/HC | Collected date/time: 09/18/20 08:00 | Received date/time: 09/19/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1546972	1	09/23/20 10:20	09/23/20 10:20	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1545941	1	09/19/20 14:43	09/19/20 14:43	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1547126	1	09/22/20 17:39	09/22/20 17:39	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1547538	10	09/23/20 20:42	09/24/20 16:47	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1550737	1	09/29/20 15:59	09/29/20 15:59	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548884	1	09/25/20 15:56	09/25/20 15:56	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1550396	10	09/28/20 12:00	09/28/20 12:00	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1549409	1	09/25/20 20:27	09/25/20 20:27	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1550162	1	09/29/20 16:06	09/29/20 16:06	BMB	Mt. Juliet, TN

PRB-D20-091820 L1263961-02 GW

Collected by: BH/HC | Collected date/time: 09/18/20 10:00 | Received date/time: 09/19/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1546972	1	09/23/20 10:29	09/23/20 10:29	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1545941	1	09/19/20 14:56	09/19/20 14:56	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1547126	1	09/22/20 19:43	09/22/20 19:43	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1547538	10	09/23/20 20:42	09/24/20 16:50	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1548979	1	09/25/20 08:29	09/25/20 08:29	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548884	1	09/25/20 15:59	09/25/20 15:59	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1549409	1	09/25/20 20:48	09/25/20 20:48	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1550162	25	09/29/20 16:24	09/29/20 16:24	BMB	Mt. Juliet, TN

PRB-D13-091820 L1263961-03 GW

Collected by: BH/HC | Collected date/time: 09/18/20 10:37 | Received date/time: 09/19/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1546972	1	09/23/20 10:39	09/23/20 10:39	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1545941	1	09/19/20 15:09	09/19/20 15:09	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1546224	5	09/21/20 08:12	09/21/20 08:12	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1547126	1	09/22/20 20:45	09/22/20 20:45	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1547538	10	09/23/20 20:42	09/24/20 17:08	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1548979	1	09/25/20 10:14	09/25/20 10:14	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548884	1	09/25/20 16:15	09/25/20 16:15	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1549409	1	09/25/20 21:08	09/25/20 21:08	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1550162	1	09/29/20 16:43	09/29/20 16:43	BMB	Mt. Juliet, TN

PRB-B19-091820 L1263961-04 GW

Collected by: BH/HC | Collected date/time: 09/18/20 11:35 | Received date/time: 09/19/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1546972	1	09/23/20 10:48	09/23/20 10:48	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1545941	1	09/19/20 15:22	09/19/20 15:22	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1547126	1	09/22/20 21:04	09/22/20 21:04	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1547538	10	09/23/20 20:42	09/24/20 17:12	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1548979	1	09/25/20 10:59	09/25/20 10:59	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548884	1	09/25/20 16:04	09/25/20 16:04	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1549409	1	09/25/20 21:28	09/25/20 21:28	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1550162	20	09/29/20 17:02	09/29/20 17:02	BMB	Mt. Juliet, TN

PRB-D23-091820 L1263961-05 GW

Collected by: BH/HC
Collected date/time: 09/18/20 13:25
Received date/time: 09/19/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1546972	1	09/23/20 10:56	09/23/20 10:56	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1545941	1	09/19/20 15:35	09/19/20 15:35	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1547126	1	09/22/20 21:20	09/22/20 21:20	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1547538	10	09/23/20 20:42	09/24/20 17:15	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1548979	1	09/25/20 11:20	09/25/20 11:20	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548884	1	09/25/20 16:13	09/25/20 16:13	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1549409	1	09/25/20 21:49	09/25/20 21:49	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1550162	1	09/29/20 17:21	09/29/20 17:21	BMB	Mt. Juliet, TN

PRB-B23-091820 L1263961-06 GW

Collected by: BH/HC
Collected date/time: 09/18/20 14:15
Received date/time: 09/19/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1546972	1	09/23/20 11:22	09/23/20 11:22	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1545941	1	09/19/20 15:48	09/19/20 15:48	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1547126	1	09/22/20 21:40	09/22/20 21:40	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1547538	10	09/23/20 20:42	09/24/20 17:18	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1548979	1	09/25/20 11:40	09/25/20 11:40	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548887	1	09/28/20 17:35	09/28/20 17:35	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1550715	10	09/29/20 09:33	09/29/20 09:33	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1549409	1	09/25/20 22:09	09/25/20 22:09	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1550162	1	09/29/20 17:40	09/29/20 17:40	BMB	Mt. Juliet, TN

EQ-091820 L1263961-07 GW

Collected by: BH/HC
Collected date/time: 09/18/20 15:30
Received date/time: 09/19/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1546972	1	09/23/20 11:32	09/23/20 11:32	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1545941	1	09/19/20 21:52	09/19/20 21:52	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1547126	1	09/23/20 00:02	09/23/20 00:02	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1547538	1	09/23/20 20:42	09/24/20 01:00	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1548979	1	09/25/20 06:23	09/25/20 06:23	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1548887	1	09/28/20 15:38	09/28/20 15:38	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1549409	1	09/25/20 17:03	09/25/20 17:03	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1550162	1	09/29/20 17:58	09/29/20 17:58	BMB	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

Report Revision History

Level II Report - Version 1: 09/30/20 17:43

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	176000		8450	20000	1	09/23/2020 10:20	WG1546972

Sample Narrative:

L1263961-01 WG1546972: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	28500		379	1000	1	09/19/2020 14:43	WG1545941
Nitrate	U		48.0	100	1	09/19/2020 14:43	WG1545941
Sulfate	6430		594	5000	1	09/19/2020 14:43	WG1545941

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)	2960		102	1000	1	09/22/2020 17:39	WG1547126

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	9580		489	1000	10	09/24/2020 16:47	WG1547538
Manganese	268		13.2	50.0	10	09/24/2020 16:47	WG1547538

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	53.6	B J	31.6	100	1	09/29/2020 15:59	WG1550737
(S) a,a,a-Trifluorotoluene(FID)	*115*			*78.0-120*		*09/29/2020 15:59*	WG1550737

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		2.87	6.78	10	09/28/2020 12:00	WG1550396
Ethane	16.3		0.296	1.29	1	09/25/2020 15:56	WG1548884
Ethene	170		0.422	1.27	1	09/25/2020 15:56	WG1548884

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.42	B	0.548	1.00	1	09/25/2020 20:27	WG1549409
Acrylonitrile	U		0.0760	0.500	1	09/25/2020 20:27	WG1549409
Benzene	0.0847		0.0160	0.0400	1	09/25/2020 20:27	WG1549409
Bromobenzene	U		0.0420	0.500	1	09/25/2020 20:27	WG1549409
Bromodichloromethane	U		0.0315	0.100	1	09/25/2020 20:27	WG1549409
Bromoform	U		0.239	1.00	1	09/25/2020 20:27	WG1549409
Bromomethane	U		0.148	0.500	1	09/25/2020 20:27	WG1549409
n-Butylbenzene	U		0.153	0.500	1	09/25/2020 20:27	WG1549409
sec-Butylbenzene	U		0.101	0.500	1	09/25/2020 20:27	WG1549409
tert-Butylbenzene	U		0.0620	0.200	1	09/25/2020 20:27	WG1549409
Carbon tetrachloride	U		0.0432	0.200	1	09/25/2020 20:27	WG1549409
Chlorobenzene	U		0.0229	0.100	1	09/25/2020 20:27	WG1549409
Chlorodibromomethane	U		0.0180	0.100	1	09/25/2020 20:27	WG1549409

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloroethane	U		0.0432	0.200	1	09/25/2020 20:27	WG1549409
Chloroform	U		0.0166	0.100	1	09/25/2020 20:27	WG1549409
Chloromethane	U		0.0556	0.500	1	09/25/2020 20:27	WG1549409
2-Chlorotoluene	U		0.0368	0.100	1	09/25/2020 20:27	WG1549409
4-Chlorotoluene	U		0.0452	0.200	1	09/25/2020 20:27	WG1549409
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/25/2020 20:27	WG1549409
1,2-Dibromoethane	U		0.0210	0.100	1	09/25/2020 20:27	WG1549409
Dibromomethane	U		0.0400	0.200	1	09/25/2020 20:27	WG1549409
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/25/2020 20:27	WG1549409
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/25/2020 20:27	WG1549409
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/25/2020 20:27	WG1549409
Dichlorodifluoromethane	U		0.0327	0.100	1	09/25/2020 20:27	WG1549409
1,1-Dichloroethane	U		0.0230	0.100	1	09/25/2020 20:27	WG1549409
1,2-Dichloroethane	U		0.0190	0.100	1	09/25/2020 20:27	WG1549409
1,1-Dichloroethene	U		0.0200	0.100	1	09/25/2020 20:27	WG1549409
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/25/2020 20:27	WG1549409
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/25/2020 20:27	WG1549409
1,2-Dichloropropane	U		0.0508	0.200	1	09/25/2020 20:27	WG1549409
1,1-Dichloropropene	U		0.0280	0.100	1	09/25/2020 20:27	WG1549409
1,3-Dichloropropane	U		0.0700	0.200	1	09/25/2020 20:27	WG1549409
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/25/2020 20:27	WG1549409
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/25/2020 20:27	WG1549409
2,2-Dichloropropane	U		0.0317	0.100	1	09/25/2020 20:27	WG1549409
Di-isopropyl ether	U		0.0140	0.0400	1	09/25/2020 20:27	WG1549409
Ethylbenzene	U		0.0212	0.100	1	09/25/2020 20:27	WG1549409
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/25/2020 20:27	WG1549409
Isopropylbenzene	U		0.0345	0.100	1	09/25/2020 20:27	WG1549409
p-Isopropyltoluene	U		0.0932	0.200	1	09/25/2020 20:27	WG1549409
2-Butanone (MEK)	U		0.500	1.00	1	09/25/2020 20:27	WG1549409
Methylene Chloride	U		0.265	1.00	1	09/25/2020 20:27	WG1549409
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/25/2020 20:27	WG1549409
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/25/2020 20:27	WG1549409
Naphthalene	U		0.124	0.500	1	09/25/2020 20:27	WG1549409
n-Propylbenzene	U		0.0472	0.200	1	09/25/2020 20:27	WG1549409
Styrene	U		0.109	0.500	1	09/25/2020 20:27	WG1549409
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/25/2020 20:27	WG1549409
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/25/2020 20:27	WG1549409
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/25/2020 20:27	WG1549409
Tetrachloroethene	U		0.0280	0.100	1	09/25/2020 20:27	WG1549409
Toluene	1.28		0.0500	0.200	1	09/25/2020 20:27	WG1549409
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/29/2020 16:06	WG1550162
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/25/2020 20:27	WG1549409
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/25/2020 20:27	WG1549409
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/25/2020 20:27	WG1549409
Trichloroethene	U		0.0160	0.0400	1	09/29/2020 16:06	WG1550162
Trichlorofluoromethane	U		0.0200	0.100	1	09/25/2020 20:27	WG1549409
1,2,3-Trichloropropane	U		0.204	0.500	1	09/25/2020 20:27	WG1549409
1,2,4-Trimethylbenzene	0.107	J	0.0464	0.200	1	09/25/2020 20:27	WG1549409
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/25/2020 20:27	WG1549409
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/25/2020 20:27	WG1549409
Vinyl chloride	U		0.0273	0.100	1	09/25/2020 20:27	WG1549409
Xylenes, Total	U		0.191	0.260	1	09/25/2020 20:27	WG1549409
Ethyl Ether	U		0.0170	0.100	1	09/25/2020 20:27	WG1549409
Tetrahydrofuran	U		0.0900	0.500	1	09/25/2020 20:27	WG1549409
Iodomethane	U		0.242	0.500	1	09/25/2020 20:27	WG1549409
Allyl chloride	U		0.580	1.00	1	09/25/2020 20:27	WG1549409

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/25/2020 20:27	WG1549409
(S) Toluene-d8	*102*			*75.0-131*		*09/25/2020 20:27*	WG1549409
(S) Toluene-d8	*104*			*75.0-131*		*09/29/2020 16:06*	WG1550162
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/25/2020 20:27*	WG1549409
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/29/2020 16:06*	WG1550162
(S) 1,2-Dichloroethane-d4	*98.7*			*70.0-130*		*09/25/2020 20:27*	WG1549409
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*09/29/2020 16:06*	WG1550162

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	230000		8450	20000	1	09/23/2020 10:29	WG1546972

Sample Narrative:

L1263961-02 WG1546972: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	25700		379	1000	1	09/19/2020 14:56	WG1545941
Nitrate	U		48.0	100	1	09/19/2020 14:56	WG1545941
Sulfate	25700		594	5000	1	09/19/2020 14:56	WG1545941

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)	4980		102	1000	1	09/22/2020 19:43	WG1547126

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	4410		489	1000	10	09/24/2020 16:50	WG1547538
Manganese	1410		13.2	50.0	10	09/24/2020 16:50	WG1547538

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	523		31.6	100	1	09/25/2020 08:29	WG1548979
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*78.0-120*		*09/25/2020 08:29*	WG1548979

Sample Narrative:

L1263961-02 WG1548979: No discernible 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	420		0.287	0.678	1	09/25/2020 15:59	WG1548884
Ethane	U		0.296	1.29	1	09/25/2020 15:59	WG1548884
Ethene	U		0.422	1.27	1	09/25/2020 15:59	WG1548884

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	0.624	B J	0.548	1.00	1	09/25/2020 20:48	WG1549409
Acrylonitrile	U		0.0760	0.500	1	09/25/2020 20:48	WG1549409
Benzene	U		0.0160	0.0400	1	09/25/2020 20:48	WG1549409
Bromobenzene	U		0.0420	0.500	1	09/25/2020 20:48	WG1549409
Bromodichloromethane	U		0.0315	0.100	1	09/25/2020 20:48	WG1549409
Bromoform	U		0.239	1.00	1	09/25/2020 20:48	WG1549409
Bromomethane	U		0.148	0.500	1	09/25/2020 20:48	WG1549409
n-Butylbenzene	U		0.153	0.500	1	09/25/2020 20:48	WG1549409
sec-Butylbenzene	U		0.101	0.500	1	09/25/2020 20:48	WG1549409
tert-Butylbenzene	U		0.0620	0.200	1	09/25/2020 20:48	WG1549409

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Carbon tetrachloride	U		0.0432	0.200	1	09/25/2020 20:48	WG1549409
Chlorobenzene	U		0.0229	0.100	1	09/25/2020 20:48	WG1549409
Chlorodibromomethane	U		0.0180	0.100	1	09/25/2020 20:48	WG1549409
Chloroethane	9.87		0.0432	0.200	1	09/25/2020 20:48	WG1549409
Chloroform	0.257		0.0166	0.100	1	09/25/2020 20:48	WG1549409
Chloromethane	U		0.0556	0.500	1	09/25/2020 20:48	WG1549409
2-Chlorotoluene	U		0.0368	0.100	1	09/25/2020 20:48	WG1549409
4-Chlorotoluene	U		0.0452	0.200	1	09/25/2020 20:48	WG1549409
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/25/2020 20:48	WG1549409
1,2-Dibromoethane	U		0.0210	0.100	1	09/25/2020 20:48	WG1549409
Dibromomethane	U		0.0400	0.200	1	09/25/2020 20:48	WG1549409
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/25/2020 20:48	WG1549409
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/25/2020 20:48	WG1549409
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/25/2020 20:48	WG1549409
Dichlorodifluoromethane	U		0.0327	0.100	1	09/25/2020 20:48	WG1549409
1,1-Dichloroethane	U		0.0230	0.100	1	09/25/2020 20:48	WG1549409
1,2-Dichloroethane	U		0.0190	0.100	1	09/25/2020 20:48	WG1549409
1,1-Dichloroethene	8.87		0.0200	0.100	1	09/25/2020 20:48	WG1549409
cis-1,2-Dichloroethene	1010		0.690	2.50	25	09/29/2020 16:24	WG1550162
trans-1,2-Dichloroethene	17.3		0.0572	0.200	1	09/25/2020 20:48	WG1549409
1,2-Dichloropropane	U		0.0508	0.200	1	09/25/2020 20:48	WG1549409
1,1-Dichloropropene	U		0.0280	0.100	1	09/25/2020 20:48	WG1549409
1,3-Dichloropropane	U		0.0700	0.200	1	09/25/2020 20:48	WG1549409
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/25/2020 20:48	WG1549409
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/25/2020 20:48	WG1549409
2,2-Dichloropropane	U		0.0317	0.100	1	09/25/2020 20:48	WG1549409
Di-isopropyl ether	U		0.0140	0.0400	1	09/25/2020 20:48	WG1549409
Ethylbenzene	U		0.0212	0.100	1	09/25/2020 20:48	WG1549409
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/25/2020 20:48	WG1549409
Isopropylbenzene	U		0.0345	0.100	1	09/25/2020 20:48	WG1549409
p-Isopropyltoluene	U		0.0932	0.200	1	09/25/2020 20:48	WG1549409
2-Butanone (MEK)	U		0.500	1.00	1	09/25/2020 20:48	WG1549409
Methylene Chloride	U		0.265	1.00	1	09/25/2020 20:48	WG1549409
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/25/2020 20:48	WG1549409
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/25/2020 20:48	WG1549409
Naphthalene	U		0.124	0.500	1	09/25/2020 20:48	WG1549409
n-Propylbenzene	U		0.0472	0.200	1	09/25/2020 20:48	WG1549409
Styrene	U		0.109	0.500	1	09/25/2020 20:48	WG1549409
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/25/2020 20:48	WG1549409
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/25/2020 20:48	WG1549409
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/25/2020 20:48	WG1549409
Tetrachloroethene	14.1		0.0280	0.100	1	09/25/2020 20:48	WG1549409
Toluene	0.128	J	0.0500	0.200	1	09/25/2020 20:48	WG1549409
1,2,3-Trichlorobenzene	U		0.625	12.5	25	09/29/2020 16:24	WG1550162
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/25/2020 20:48	WG1549409
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/25/2020 20:48	WG1549409
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/25/2020 20:48	WG1549409
Trichloroethene	22.3		0.400	1.00	25	09/29/2020 16:24	WG1550162
Trichlorofluoromethane	U		0.0200	0.100	1	09/25/2020 20:48	WG1549409
1,2,3-Trichloropropane	U		0.204	0.500	1	09/25/2020 20:48	WG1549409
1,2,4-Trimethylbenzene	0.101	J	0.0464	0.200	1	09/25/2020 20:48	WG1549409
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/25/2020 20:48	WG1549409
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/25/2020 20:48	WG1549409
Vinyl chloride	813		0.682	2.50	25	09/29/2020 16:24	WG1550162
Xylenes, Total	U		0.191	0.260	1	09/25/2020 20:48	WG1549409
Ethyl Ether	U		0.0170	0.100	1	09/25/2020 20:48	WG1549409

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Tetrahydrofuran	7.73		0.0900	0.500	1	09/25/2020 20:48	WG1549409
Iodomethane	U		0.242	0.500	1	09/25/2020 20:48	WG1549409
Allyl chloride	U		0.580	1.00	1	09/25/2020 20:48	WG1549409
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/25/2020 20:48	WG1549409
(S) Toluene-d8	*102*			*75.0-131*		*09/25/2020 20:48*	WG1549409
(S) Toluene-d8	*102*			*75.0-131*		*09/29/2020 16:24*	WG1550162
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/25/2020 20:48*	WG1549409
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*09/29/2020 16:24*	WG1550162
(S) 1,2-Dichloroethane-d4	*98.2*			*70.0-130*		*09/25/2020 20:48*	WG1549409
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/29/2020 16:24*	WG1550162

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	200000		8450	20000	1	09/23/2020 10:39	WG1546972

Sample Narrative:

L1263961-03 WG1546972: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	22800		379	1000	1	09/19/2020 15:09	WG1545941
Nitrate	U		48.0	100	1	09/19/2020 15:09	WG1545941
Sulfate	149000		2970	25000	5	09/21/2020 08:12	WG1546224

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2110	B	102	1000	1	09/22/2020 20:45	WG1547126

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	15300		489	1000	10	09/24/2020 17:08	WG1547538
Manganese	756		13.2	50.0	10	09/24/2020 17:08	WG1547538

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	56.7	B J	31.6	100	1	09/25/2020 10:14	WG1548979
(S) a,a,a-Trifluorotoluene(FID)	*95.9*			*78.0-120*		*09/25/2020 10:14*	WG1548979

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	453		0.287	0.678	1	09/25/2020 16:15	WG1548884
Ethane	U		0.296	1.29	1	09/25/2020 16:15	WG1548884
Ethene	U		0.422	1.27	1	09/25/2020 16:15	WG1548884

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	0.940	B J	0.548	1.00	1	09/25/2020 21:08	WG1549409
Acrylonitrile	U		0.0760	0.500	1	09/25/2020 21:08	WG1549409
Benzene	U		0.0160	0.0400	1	09/25/2020 21:08	WG1549409
Bromobenzene	U		0.0420	0.500	1	09/25/2020 21:08	WG1549409
Bromodichloromethane	U		0.0315	0.100	1	09/25/2020 21:08	WG1549409
Bromoform	U		0.239	1.00	1	09/25/2020 21:08	WG1549409
Bromomethane	U		0.148	0.500	1	09/25/2020 21:08	WG1549409
n-Butylbenzene	U		0.153	0.500	1	09/25/2020 21:08	WG1549409
sec-Butylbenzene	U		0.101	0.500	1	09/25/2020 21:08	WG1549409
tert-Butylbenzene	U		0.0620	0.200	1	09/25/2020 21:08	WG1549409
Carbon tetrachloride	U		0.0432	0.200	1	09/25/2020 21:08	WG1549409
Chlorobenzene	U		0.0229	0.100	1	09/25/2020 21:08	WG1549409
Chlorodibromomethane	U		0.0180	0.100	1	09/25/2020 21:08	WG1549409

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloroethane	U		0.0432	0.200	1	09/25/2020 21:08	WG1549409
Chloroform	0.188		0.0166	0.100	1	09/25/2020 21:08	WG1549409
Chloromethane	U		0.0556	0.500	1	09/25/2020 21:08	WG1549409
2-Chlorotoluene	U		0.0368	0.100	1	09/25/2020 21:08	WG1549409
4-Chlorotoluene	U		0.0452	0.200	1	09/25/2020 21:08	WG1549409
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/25/2020 21:08	WG1549409
1,2-Dibromoethane	U		0.0210	0.100	1	09/25/2020 21:08	WG1549409
Dibromomethane	U		0.0400	0.200	1	09/25/2020 21:08	WG1549409
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/25/2020 21:08	WG1549409
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/25/2020 21:08	WG1549409
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/25/2020 21:08	WG1549409
Dichlorodifluoromethane	U		0.0327	0.100	1	09/25/2020 21:08	WG1549409
1,1-Dichloroethane	U		0.0230	0.100	1	09/25/2020 21:08	WG1549409
1,2-Dichloroethane	U		0.0190	0.100	1	09/25/2020 21:08	WG1549409
1,1-Dichloroethene	U		0.0200	0.100	1	09/25/2020 21:08	WG1549409
cis-1,2-Dichloroethene	0.869		0.0276	0.100	1	09/29/2020 16:43	WG1550162
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/25/2020 21:08	WG1549409
1,2-Dichloropropane	U		0.0508	0.200	1	09/25/2020 21:08	WG1549409
1,1-Dichloropropene	U		0.0280	0.100	1	09/25/2020 21:08	WG1549409
1,3-Dichloropropane	U		0.0700	0.200	1	09/25/2020 21:08	WG1549409
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/25/2020 21:08	WG1549409
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/25/2020 21:08	WG1549409
2,2-Dichloropropane	U		0.0317	0.100	1	09/25/2020 21:08	WG1549409
Di-isopropyl ether	U		0.0140	0.0400	1	09/25/2020 21:08	WG1549409
Ethylbenzene	U		0.0212	0.100	1	09/25/2020 21:08	WG1549409
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/25/2020 21:08	WG1549409
Isopropylbenzene	U		0.0345	0.100	1	09/25/2020 21:08	WG1549409
p-Isopropyltoluene	U		0.0932	0.200	1	09/25/2020 21:08	WG1549409
2-Butanone (MEK)	U		0.500	1.00	1	09/25/2020 21:08	WG1549409
Methylene Chloride	U		0.265	1.00	1	09/25/2020 21:08	WG1549409
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/25/2020 21:08	WG1549409
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/25/2020 21:08	WG1549409
Naphthalene	U		0.124	0.500	1	09/25/2020 21:08	WG1549409
n-Propylbenzene	U		0.0472	0.200	1	09/25/2020 21:08	WG1549409
Styrene	U		0.109	0.500	1	09/25/2020 21:08	WG1549409
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/25/2020 21:08	WG1549409
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/25/2020 21:08	WG1549409
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/25/2020 21:08	WG1549409
Tetrachloroethene	0.178		0.0280	0.100	1	09/25/2020 21:08	WG1549409
Toluene	0.975		0.0500	0.200	1	09/25/2020 21:08	WG1549409
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/29/2020 16:43	WG1550162
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/25/2020 21:08	WG1549409
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/25/2020 21:08	WG1549409
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/25/2020 21:08	WG1549409
Trichloroethene	0.0780		0.0160	0.0400	1	09/29/2020 16:43	WG1550162
Trichlorofluoromethane	U		0.0200	0.100	1	09/25/2020 21:08	WG1549409
1,2,3-Trichloropropane	U		0.204	0.500	1	09/25/2020 21:08	WG1549409
1,2,4-Trimethylbenzene	0.101	J	0.0464	0.200	1	09/25/2020 21:08	WG1549409
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/25/2020 21:08	WG1549409
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/25/2020 21:08	WG1549409
Vinyl chloride	3.27		0.0273	0.100	1	09/29/2020 16:43	WG1550162
Xylenes, Total	U		0.191	0.260	1	09/25/2020 21:08	WG1549409
Ethyl Ether	U		0.0170	0.100	1	09/25/2020 21:08	WG1549409
Tetrahydrofuran	U		0.0900	0.500	1	09/25/2020 21:08	WG1549409
Iodomethane	U		0.242	0.500	1	09/25/2020 21:08	WG1549409
Allyl chloride	U		0.580	1.00	1	09/25/2020 21:08	WG1549409

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/25/2020 21:08	WG1549409
(S) Toluene-d8	*102*			*75.0-131*		*09/25/2020 21:08*	WG1549409
(S) Toluene-d8	*104*			*75.0-131*		*09/29/2020 16:43*	WG1550162
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/25/2020 21:08*	WG1549409
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*09/29/2020 16:43*	WG1550162
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*09/25/2020 21:08*	WG1549409
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*09/29/2020 16:43*	WG1550162

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	255000		8450	20000	1	09/23/2020 10:48	WG1546972

Sample Narrative:

L1263961-04 WG1546972: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	30900		379	1000	1	09/19/2020 15:22	WG1545941
Nitrate	U		48.0	100	1	09/19/2020 15:22	WG1545941
Sulfate	26600		594	5000	1	09/19/2020 15:22	WG1545941

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)	5330		102	1000	1	09/22/2020 21:04	WG1547126

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	4260		489	1000	10	09/24/2020 17:12	WG1547538
Manganese	680		13.2	50.0	10	09/24/2020 17:12	WG1547538

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	61.0	B J	31.6	100	1	09/25/2020 10:59	WG1548979
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*78.0-120*		*09/25/2020 10:59*	WG1548979

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	54.7		0.287	0.678	1	09/25/2020 16:04	WG1548884
Ethane	U		0.296	1.29	1	09/25/2020 16:04	WG1548884
Ethene	U		0.422	1.27	1	09/25/2020 16:04	WG1548884

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	0.854	B J	0.548	1.00	1	09/25/2020 21:28	WG1549409
Acrylonitrile	U		0.0760	0.500	1	09/25/2020 21:28	WG1549409
Benzene	U		0.0160	0.0400	1	09/25/2020 21:28	WG1549409
Bromobenzene	U		0.0420	0.500	1	09/25/2020 21:28	WG1549409
Bromodichloromethane	U		0.0315	0.100	1	09/25/2020 21:28	WG1549409
Bromoform	U		0.239	1.00	1	09/25/2020 21:28	WG1549409
Bromomethane	U		0.148	0.500	1	09/25/2020 21:28	WG1549409
n-Butylbenzene	U		0.153	0.500	1	09/25/2020 21:28	WG1549409
sec-Butylbenzene	U		0.101	0.500	1	09/25/2020 21:28	WG1549409
tert-Butylbenzene	U		0.0620	0.200	1	09/25/2020 21:28	WG1549409
Carbon tetrachloride	U		0.0432	0.200	1	09/25/2020 21:28	WG1549409
Chlorobenzene	U		0.0229	0.100	1	09/25/2020 21:28	WG1549409
Chlorodibromomethane	U		0.0180	0.100	1	09/25/2020 21:28	WG1549409

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloroethane	1.61		0.0432	0.200	1	09/25/2020 21:28	WG1549409
Chloroform	U		0.0166	0.100	1	09/25/2020 21:28	WG1549409
Chloromethane	U		0.0556	0.500	1	09/25/2020 21:28	WG1549409
2-Chlorotoluene	U		0.0368	0.100	1	09/25/2020 21:28	WG1549409
4-Chlorotoluene	U		0.0452	0.200	1	09/25/2020 21:28	WG1549409
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/25/2020 21:28	WG1549409
1,2-Dibromoethane	U		0.0210	0.100	1	09/25/2020 21:28	WG1549409
Dibromomethane	U		0.0400	0.200	1	09/25/2020 21:28	WG1549409
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/25/2020 21:28	WG1549409
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/25/2020 21:28	WG1549409
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/25/2020 21:28	WG1549409
Dichlorodifluoromethane	U		0.0327	0.100	1	09/25/2020 21:28	WG1549409
1,1-Dichloroethane	U		0.0230	0.100	1	09/25/2020 21:28	WG1549409
1,2-Dichloroethane	U		0.0190	0.100	1	09/25/2020 21:28	WG1549409
1,1-Dichloroethene	0.655		0.0200	0.100	1	09/25/2020 21:28	WG1549409
cis-1,2-Dichloroethene	16.8		0.0276	0.100	1	09/25/2020 21:28	WG1549409
trans-1,2-Dichloroethene	0.677		0.0572	0.200	1	09/25/2020 21:28	WG1549409
1,2-Dichloropropane	U		0.0508	0.200	1	09/25/2020 21:28	WG1549409
1,1-Dichloropropene	U		0.0280	0.100	1	09/25/2020 21:28	WG1549409
1,3-Dichloropropane	U		0.0700	0.200	1	09/25/2020 21:28	WG1549409
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/25/2020 21:28	WG1549409
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/25/2020 21:28	WG1549409
2,2-Dichloropropane	U		0.0317	0.100	1	09/25/2020 21:28	WG1549409
Di-isopropyl ether	U		0.0140	0.0400	1	09/25/2020 21:28	WG1549409
Ethylbenzene	U		0.0212	0.100	1	09/25/2020 21:28	WG1549409
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/25/2020 21:28	WG1549409
Isopropylbenzene	U		0.0345	0.100	1	09/25/2020 21:28	WG1549409
p-Isopropyltoluene	U		0.0932	0.200	1	09/25/2020 21:28	WG1549409
2-Butanone (MEK)	U		0.500	1.00	1	09/25/2020 21:28	WG1549409
Methylene Chloride	U		0.265	1.00	1	09/25/2020 21:28	WG1549409
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/25/2020 21:28	WG1549409
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/25/2020 21:28	WG1549409
Naphthalene	U		0.124	0.500	1	09/25/2020 21:28	WG1549409
n-Propylbenzene	U		0.0472	0.200	1	09/25/2020 21:28	WG1549409
Styrene	U		0.109	0.500	1	09/25/2020 21:28	WG1549409
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/25/2020 21:28	WG1549409
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/25/2020 21:28	WG1549409
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/25/2020 21:28	WG1549409
Tetrachloroethene	U		0.0280	0.100	1	09/25/2020 21:28	WG1549409
Toluene	U		0.0500	0.200	1	09/25/2020 21:28	WG1549409
1,2,3-Trichlorobenzene	U		0.500	10.0	20	09/29/2020 17:02	WG1550162
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/25/2020 21:28	WG1549409
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/25/2020 21:28	WG1549409
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/25/2020 21:28	WG1549409
Trichloroethene	0.500	J	0.320	0.800	20	09/29/2020 17:02	WG1550162
Trichlorofluoromethane	U		0.0200	0.100	1	09/25/2020 21:28	WG1549409
1,2,3-Trichloropropane	U		0.204	0.500	1	09/25/2020 21:28	WG1549409
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/25/2020 21:28	WG1549409
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/25/2020 21:28	WG1549409
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/25/2020 21:28	WG1549409
Vinyl chloride	446		0.546	2.00	20	09/29/2020 17:02	WG1550162
Xylenes, Total	U		0.191	0.260	1	09/25/2020 21:28	WG1549409
Ethyl Ether	U		0.0170	0.100	1	09/25/2020 21:28	WG1549409
Tetrahydrofuran	U		0.0900	0.500	1	09/25/2020 21:28	WG1549409
Iodomethane	U		0.242	0.500	1	09/25/2020 21:28	WG1549409
Allyl chloride	U		0.580	1.00	1	09/25/2020 21:28	WG1549409

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/25/2020 21:28	WG1549409
(S) Toluene-d8	*102*			*75.0-131*		*09/25/2020 21:28*	WG1549409
(S) Toluene-d8	*103*			*75.0-131*		*09/29/2020 17:02*	WG1550162
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/25/2020 21:28*	WG1549409
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/29/2020 17:02*	WG1550162
(S) 1,2-Dichloroethane-d4	*99.1*			*70.0-130*		*09/25/2020 21:28*	WG1549409
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*09/29/2020 17:02*	WG1550162

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	173000		8450	20000	1	09/23/2020 10:56	WG1546972

Sample Narrative:

L1263961-05 WG1546972: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	27900		379	1000	1	09/19/2020 15:35	WG1545941
Nitrate	50.3	J	48.0	100	1	09/19/2020 15:35	WG1545941
Sulfate	6650		594	5000	1	09/19/2020 15:35	WG1545941

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2530		102	1000	1	09/22/2020 21:20	WG1547126

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	17400		489	1000	10	09/24/2020 17:15	WG1547538
Manganese	395		13.2	50.0	10	09/24/2020 17:15	WG1547538

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	49.0	B J	31.6	100	1	09/25/2020 11:20	WG1548979
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*78.0-120*		*09/25/2020 11:20*	WG1548979

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	48.4		0.287	0.678	1	09/25/2020 16:13	WG1548884
Ethane	U		0.296	1.29	1	09/25/2020 16:13	WG1548884
Ethene	U		0.422	1.27	1	09/25/2020 16:13	WG1548884

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.04	B	0.548	1.00	1	09/25/2020 21:49	WG1549409
Acrylonitrile	U		0.0760	0.500	1	09/25/2020 21:49	WG1549409
Benzene	0.0979		0.0160	0.0400	1	09/25/2020 21:49	WG1549409
Bromobenzene	U		0.0420	0.500	1	09/25/2020 21:49	WG1549409
Bromodichloromethane	U		0.0315	0.100	1	09/25/2020 21:49	WG1549409
Bromoform	U		0.239	1.00	1	09/25/2020 21:49	WG1549409
Bromomethane	U		0.148	0.500	1	09/25/2020 21:49	WG1549409
n-Butylbenzene	U		0.153	0.500	1	09/25/2020 21:49	WG1549409
sec-Butylbenzene	U		0.101	0.500	1	09/25/2020 21:49	WG1549409
tert-Butylbenzene	U		0.0620	0.200	1	09/25/2020 21:49	WG1549409
Carbon tetrachloride	U		0.0432	0.200	1	09/25/2020 21:49	WG1549409
Chlorobenzene	U		0.0229	0.100	1	09/25/2020 21:49	WG1549409
Chlorodibromomethane	U		0.0180	0.100	1	09/25/2020 21:49	WG1549409

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloroethane	U		0.0432	0.200	1	09/25/2020 21:49	WG1549409
Chloroform	U		0.0166	0.100	1	09/25/2020 21:49	WG1549409
Chloromethane	U		0.0556	0.500	1	09/25/2020 21:49	WG1549409
2-Chlorotoluene	U		0.0368	0.100	1	09/25/2020 21:49	WG1549409
4-Chlorotoluene	U		0.0452	0.200	1	09/25/2020 21:49	WG1549409
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/25/2020 21:49	WG1549409
1,2-Dibromoethane	U		0.0210	0.100	1	09/25/2020 21:49	WG1549409
Dibromomethane	U		0.0400	0.200	1	09/25/2020 21:49	WG1549409
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/25/2020 21:49	WG1549409
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/25/2020 21:49	WG1549409
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/25/2020 21:49	WG1549409
Dichlorodifluoromethane	U		0.0327	0.100	1	09/25/2020 21:49	WG1549409
1,1-Dichloroethane	U		0.0230	0.100	1	09/25/2020 21:49	WG1549409
1,2-Dichloroethane	U		0.0190	0.100	1	09/25/2020 21:49	WG1549409
1,1-Dichloroethene	U		0.0200	0.100	1	09/25/2020 21:49	WG1549409
cis-1,2-Dichloroethene	0.113		0.0276	0.100	1	09/25/2020 21:49	WG1549409
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/25/2020 21:49	WG1549409
1,2-Dichloropropane	U		0.0508	0.200	1	09/25/2020 21:49	WG1549409
1,1-Dichloropropene	U		0.0280	0.100	1	09/25/2020 21:49	WG1549409
1,3-Dichloropropane	U		0.0700	0.200	1	09/25/2020 21:49	WG1549409
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/25/2020 21:49	WG1549409
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/25/2020 21:49	WG1549409
2,2-Dichloropropane	U		0.0317	0.100	1	09/25/2020 21:49	WG1549409
Di-isopropyl ether	U		0.0140	0.0400	1	09/25/2020 21:49	WG1549409
Ethylbenzene	U		0.0212	0.100	1	09/25/2020 21:49	WG1549409
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/25/2020 21:49	WG1549409
Isopropylbenzene	U		0.0345	0.100	1	09/25/2020 21:49	WG1549409
p-Isopropyltoluene	U		0.0932	0.200	1	09/25/2020 21:49	WG1549409
2-Butanone (MEK)	U		0.500	1.00	1	09/25/2020 21:49	WG1549409
Methylene Chloride	U		0.265	1.00	1	09/25/2020 21:49	WG1549409
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/25/2020 21:49	WG1549409
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/25/2020 21:49	WG1549409
Naphthalene	U		0.124	0.500	1	09/25/2020 21:49	WG1549409
n-Propylbenzene	U		0.0472	0.200	1	09/25/2020 21:49	WG1549409
Styrene	U		0.109	0.500	1	09/25/2020 21:49	WG1549409
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/25/2020 21:49	WG1549409
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/25/2020 21:49	WG1549409
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/25/2020 21:49	WG1549409
Tetrachloroethene	U		0.0280	0.100	1	09/25/2020 21:49	WG1549409
Toluene	1.32		0.0500	0.200	1	09/25/2020 21:49	WG1549409
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/29/2020 17:21	WG1550162
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/25/2020 21:49	WG1549409
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/25/2020 21:49	WG1549409
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/25/2020 21:49	WG1549409
Trichloroethene	U		0.0160	0.0400	1	09/29/2020 17:21	WG1550162
Trichlorofluoromethane	U		0.0200	0.100	1	09/25/2020 21:49	WG1549409
1,2,3-Trichloropropane	U		0.204	0.500	1	09/25/2020 21:49	WG1549409
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/25/2020 21:49	WG1549409
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/25/2020 21:49	WG1549409
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/25/2020 21:49	WG1549409
Vinyl chloride	U		0.0273	0.100	1	09/29/2020 17:21	WG1550162
Xylenes, Total	U		0.191	0.260	1	09/25/2020 21:49	WG1549409
Ethyl Ether	U		0.0170	0.100	1	09/25/2020 21:49	WG1549409
Tetrahydrofuran	0.277	B J	0.0900	0.500	1	09/25/2020 21:49	WG1549409
Iodomethane	U		0.242	0.500	1	09/25/2020 21:49	WG1549409
Allyl chloride	U		0.580	1.00	1	09/25/2020 21:49	WG1549409

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/25/2020 21:49	WG1549409
(S) Toluene-d8	*104*			*75.0-131*		*09/25/2020 21:49*	WG1549409
(S) Toluene-d8	*102*			*75.0-131*		*09/29/2020 17:21*	WG1550162
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/25/2020 21:49*	WG1549409
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*09/29/2020 17:21*	WG1550162
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*09/25/2020 21:49*	WG1549409
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*09/29/2020 17:21*	WG1550162

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	433000		8450	20000	1	09/23/2020 11:22	WG1546972

Sample Narrative:

L1263961-06 WG1546972: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	45300		379	1000	1	09/19/2020 15:48	WG1545941
Nitrate	U		48.0	100	1	09/19/2020 15:48	WG1545941
Sulfate	62000		594	5000	1	09/19/2020 15:48	WG1545941

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)	37000		102	1000	1	09/22/2020 21:40	WG1547126

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	4450		489	1000	10	09/24/2020 17:18	WG1547538
Manganese	416		13.2	50.0	10	09/24/2020 17:18	WG1547538

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	42.2	B J	31.6	100	1	09/25/2020 11:40	WG1548979
(S) a,a,a-Trifluorotoluene(FID)	*93.7*			*78.0-120*		*09/25/2020 11:40*	WG1548979

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	10800		2.87	6.78	10	09/29/2020 09:33	WG1550715
Ethane	U		0.296	1.29	1	09/28/2020 17:35	WG1548887
Ethene	2010		0.422	1.27	1	09/28/2020 17:35	WG1548887

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.04	B	0.548	1.00	1	09/25/2020 22:09	WG1549409
Acrylonitrile	U		0.0760	0.500	1	09/25/2020 22:09	WG1549409
Benzene	U		0.0160	0.0400	1	09/25/2020 22:09	WG1549409
Bromobenzene	U		0.0420	0.500	1	09/25/2020 22:09	WG1549409
Bromodichloromethane	U		0.0315	0.100	1	09/25/2020 22:09	WG1549409
Bromoform	U		0.239	1.00	1	09/25/2020 22:09	WG1549409
Bromomethane	U		0.148	0.500	1	09/25/2020 22:09	WG1549409
n-Butylbenzene	U		0.153	0.500	1	09/25/2020 22:09	WG1549409
sec-Butylbenzene	U		0.101	0.500	1	09/25/2020 22:09	WG1549409
tert-Butylbenzene	U		0.0620	0.200	1	09/25/2020 22:09	WG1549409
Carbon tetrachloride	U		0.0432	0.200	1	09/25/2020 22:09	WG1549409
Chlorobenzene	U		0.0229	0.100	1	09/25/2020 22:09	WG1549409
Chlorodibromomethane	U		0.0180	0.100	1	09/25/2020 22:09	WG1549409

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloroethane	U		0.0432	0.200	1	09/25/2020 22:09	WG1549409
Chloroform	U		0.0166	0.100	1	09/25/2020 22:09	WG1549409
Chloromethane	U		0.0556	0.500	1	09/25/2020 22:09	WG1549409
2-Chlorotoluene	U		0.0368	0.100	1	09/25/2020 22:09	WG1549409
4-Chlorotoluene	U		0.0452	0.200	1	09/25/2020 22:09	WG1549409
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/25/2020 22:09	WG1549409
1,2-Dibromoethane	U		0.0210	0.100	1	09/25/2020 22:09	WG1549409
Dibromomethane	U		0.0400	0.200	1	09/25/2020 22:09	WG1549409
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/25/2020 22:09	WG1549409
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/25/2020 22:09	WG1549409
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/25/2020 22:09	WG1549409
Dichlorodifluoromethane	U		0.0327	0.100	1	09/25/2020 22:09	WG1549409
1,1-Dichloroethane	U		0.0230	0.100	1	09/25/2020 22:09	WG1549409
1,2-Dichloroethane	U		0.0190	0.100	1	09/25/2020 22:09	WG1549409
1,1-Dichloroethene	U		0.0200	0.100	1	09/25/2020 22:09	WG1549409
cis-1,2-Dichloroethene	0.646		0.0276	0.100	1	09/25/2020 22:09	WG1549409
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/25/2020 22:09	WG1549409
1,2-Dichloropropane	U		0.0508	0.200	1	09/25/2020 22:09	WG1549409
1,1-Dichloropropene	U		0.0280	0.100	1	09/25/2020 22:09	WG1549409
1,3-Dichloropropane	U		0.0700	0.200	1	09/25/2020 22:09	WG1549409
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/25/2020 22:09	WG1549409
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/25/2020 22:09	WG1549409
2,2-Dichloropropane	U		0.0317	0.100	1	09/25/2020 22:09	WG1549409
Di-isopropyl ether	U		0.0140	0.0400	1	09/25/2020 22:09	WG1549409
Ethylbenzene	U		0.0212	0.100	1	09/25/2020 22:09	WG1549409
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/25/2020 22:09	WG1549409
Isopropylbenzene	U		0.0345	0.100	1	09/25/2020 22:09	WG1549409
p-Isopropyltoluene	U		0.0932	0.200	1	09/25/2020 22:09	WG1549409
2-Butanone (MEK)	0.810	J	0.500	1.00	1	09/25/2020 22:09	WG1549409
Methylene Chloride	U		0.265	1.00	1	09/25/2020 22:09	WG1549409
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/25/2020 22:09	WG1549409
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/25/2020 22:09	WG1549409
Naphthalene	U		0.124	0.500	1	09/25/2020 22:09	WG1549409
n-Propylbenzene	U		0.0472	0.200	1	09/25/2020 22:09	WG1549409
Styrene	U		0.109	0.500	1	09/25/2020 22:09	WG1549409
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/25/2020 22:09	WG1549409
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/25/2020 22:09	WG1549409
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/25/2020 22:09	WG1549409
Tetrachloroethene	U		0.0280	0.100	1	09/25/2020 22:09	WG1549409
Toluene	0.172	J	0.0500	0.200	1	09/25/2020 22:09	WG1549409
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/29/2020 17:40	WG1550162
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/25/2020 22:09	WG1549409
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/25/2020 22:09	WG1549409
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/25/2020 22:09	WG1549409
Trichloroethene	U		0.0160	0.0400	1	09/29/2020 17:40	WG1550162
Trichlorofluoromethane	U		0.0200	0.100	1	09/25/2020 22:09	WG1549409
1,2,3-Trichloropropane	U		0.204	0.500	1	09/25/2020 22:09	WG1549409
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/25/2020 22:09	WG1549409
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/25/2020 22:09	WG1549409
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/25/2020 22:09	WG1549409
Vinyl chloride	15.6		0.0273	0.100	1	09/25/2020 22:09	WG1549409
Xylenes, Total	U		0.191	0.260	1	09/25/2020 22:09	WG1549409
Ethyl Ether	U		0.0170	0.100	1	09/25/2020 22:09	WG1549409
Tetrahydrofuran	U		0.0900	0.500	1	09/25/2020 22:09	WG1549409
Iodomethane	U		0.242	0.500	1	09/25/2020 22:09	WG1549409
Allyl chloride	U		0.580	1.00	1	09/25/2020 22:09	WG1549409

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/25/2020 22:09	WG1549409
(S) Toluene-d8	*103*			*75.0-131*		*09/25/2020 22:09*	WG1549409
(S) Toluene-d8	*94.9*			*75.0-131*		*09/29/2020 17:40*	WG1550162
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/25/2020 22:09*	WG1549409
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/29/2020 17:40*	WG1550162
(S) 1,2-Dichloroethane-d4	*99.1*			*70.0-130*		*09/25/2020 22:09*	WG1549409
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*09/29/2020 17:40*	WG1550162

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	09/23/2020 11:32	WG1546972

Sample Narrative:

L1263961-07 WG1546972: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	774	J	379	1000	1	09/19/2020 21:52	WG1545941
Nitrate	U		48.0	100	1	09/19/2020 21:52	WG1545941
Sulfate	2080	J	594	5000	1	09/19/2020 21:52	WG1545941

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)	349	B J	102	1000	1	09/23/2020 00:02	WG1547126

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	69.0	J	48.9	100	1	09/24/2020 01:00	WG1547538
Manganese	U		1.32	5.00	1	09/24/2020 01:00	WG1547538

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	48.7	B J	31.6	100	1	09/25/2020 06:23	WG1548979
(S) a,a,a-Trifluorotoluene(FID)	*93.5*			*78.0-120*		*09/25/2020 06:23*	WG1548979

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	09/28/2020 15:38	WG1548887
Ethane	U		0.296	1.29	1	09/28/2020 15:38	WG1548887
Ethene	U		0.422	1.27	1	09/28/2020 15:38	WG1548887

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.21	B	0.548	1.00	1	09/25/2020 17:03	WG1549409
Acrylonitrile	U		0.0760	0.500	1	09/25/2020 17:03	WG1549409
Benzene	U		0.0160	0.0400	1	09/25/2020 17:03	WG1549409
Bromobenzene	U		0.0420	0.500	1	09/25/2020 17:03	WG1549409
Bromodichloromethane	U		0.0315	0.100	1	09/25/2020 17:03	WG1549409
Bromoform	U		0.239	1.00	1	09/25/2020 17:03	WG1549409
Bromomethane	U		0.148	0.500	1	09/25/2020 17:03	WG1549409
n-Butylbenzene	U		0.153	0.500	1	09/25/2020 17:03	WG1549409
sec-Butylbenzene	U		0.101	0.500	1	09/25/2020 17:03	WG1549409
tert-Butylbenzene	U		0.0620	0.200	1	09/25/2020 17:03	WG1549409
Carbon tetrachloride	U		0.0432	0.200	1	09/25/2020 17:03	WG1549409
Chlorobenzene	U		0.0229	0.100	1	09/25/2020 17:03	WG1549409
Chlorodibromomethane	U		0.0180	0.100	1	09/25/2020 17:03	WG1549409

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloroethane	U		0.0432	0.200	1	09/25/2020 17:03	WG1549409
Chloroform	U		0.0166	0.100	1	09/25/2020 17:03	WG1549409
Chloromethane	U		0.0556	0.500	1	09/25/2020 17:03	WG1549409
2-Chlorotoluene	U		0.0368	0.100	1	09/25/2020 17:03	WG1549409
4-Chlorotoluene	U		0.0452	0.200	1	09/25/2020 17:03	WG1549409
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/25/2020 17:03	WG1549409
1,2-Dibromoethane	U		0.0210	0.100	1	09/25/2020 17:03	WG1549409
Dibromomethane	U		0.0400	0.200	1	09/25/2020 17:03	WG1549409
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/25/2020 17:03	WG1549409
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/25/2020 17:03	WG1549409
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/25/2020 17:03	WG1549409
Dichlorodifluoromethane	U		0.0327	0.100	1	09/25/2020 17:03	WG1549409
1,1-Dichloroethane	U		0.0230	0.100	1	09/25/2020 17:03	WG1549409
1,2-Dichloroethane	U		0.0190	0.100	1	09/25/2020 17:03	WG1549409
1,1-Dichloroethene	U		0.0200	0.100	1	09/25/2020 17:03	WG1549409
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/25/2020 17:03	WG1549409
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/25/2020 17:03	WG1549409
1,2-Dichloropropane	U		0.0508	0.200	1	09/25/2020 17:03	WG1549409
1,1-Dichloropropene	U		0.0280	0.100	1	09/25/2020 17:03	WG1549409
1,3-Dichloropropane	U		0.0700	0.200	1	09/25/2020 17:03	WG1549409
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/25/2020 17:03	WG1549409
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/25/2020 17:03	WG1549409
2,2-Dichloropropane	U		0.0317	0.100	1	09/25/2020 17:03	WG1549409
Di-isopropyl ether	U		0.0140	0.0400	1	09/25/2020 17:03	WG1549409
Ethylbenzene	U		0.0212	0.100	1	09/25/2020 17:03	WG1549409
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/25/2020 17:03	WG1549409
Isopropylbenzene	U		0.0345	0.100	1	09/25/2020 17:03	WG1549409
p-Isopropyltoluene	U		0.0932	0.200	1	09/25/2020 17:03	WG1549409
2-Butanone (MEK)	U		0.500	1.00	1	09/25/2020 17:03	WG1549409
Methylene Chloride	U		0.265	1.00	1	09/25/2020 17:03	WG1549409
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/25/2020 17:03	WG1549409
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/25/2020 17:03	WG1549409
Naphthalene	U		0.124	0.500	1	09/25/2020 17:03	WG1549409
n-Propylbenzene	U		0.0472	0.200	1	09/25/2020 17:03	WG1549409
Styrene	U		0.109	0.500	1	09/25/2020 17:03	WG1549409
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/25/2020 17:03	WG1549409
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/25/2020 17:03	WG1549409
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/25/2020 17:03	WG1549409
Tetrachloroethene	U		0.0280	0.100	1	09/25/2020 17:03	WG1549409
Toluene	0.498		0.0500	0.200	1	09/25/2020 17:03	WG1549409
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/29/2020 17:58	WG1550162
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/25/2020 17:03	WG1549409
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/25/2020 17:03	WG1549409
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/25/2020 17:03	WG1549409
Trichloroethene	U		0.0160	0.0400	1	09/29/2020 17:58	WG1550162
Trichlorofluoromethane	U		0.0200	0.100	1	09/25/2020 17:03	WG1549409
1,2,3-Trichloropropane	U		0.204	0.500	1	09/25/2020 17:03	WG1549409
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/25/2020 17:03	WG1549409
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/25/2020 17:03	WG1549409
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/25/2020 17:03	WG1549409
Vinyl chloride	U		0.0273	0.100	1	09/25/2020 17:03	WG1549409
Xylenes, Total	U		0.191	0.260	1	09/25/2020 17:03	WG1549409
Ethyl Ether	U		0.0170	0.100	1	09/25/2020 17:03	WG1549409
Tetrahydrofuran	U		0.0900	0.500	1	09/25/2020 17:03	WG1549409
Iodomethane	U		0.242	0.500	1	09/25/2020 17:03	WG1549409
Allyl chloride	U		0.580	1.00	1	09/25/2020 17:03	WG1549409

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/25/2020 17:03	WG1549409
(S) Toluene-d8	*105*			*75.0-131*		*09/25/2020 17:03*	WG1549409
(S) Toluene-d8	*90.9*			*75.0-131*		*09/29/2020 17:58*	WG1550162
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*09/25/2020 17:03*	WG1549409
(S) 4-Bromofluorobenzene	*92.5*			*67.0-138*		*09/29/2020 17:58*	WG1550162
(S) 1,2-Dichloroethane-d4	*97.8*			*70.0-130*		*09/25/2020 17:03*	WG1549409
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*09/29/2020 17:58*	WG1550162

Method Blank (MB)

(MB) R3573629-1 09/23/20 09:37

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Alkalinity	U		8450	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1263951-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1263951-01 09/23/20 09:45 • (DUP) R3573629-2 09/23/20 09:54

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	191000	187000	1	2.15		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1264002-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1264002-01 09/23/20 13:13 • (DUP) R3573629-4 09/23/20 13:24

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	61300	60700	1	1.03		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3573629-3 09/23/20 11:07

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	99500	99.5	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R3572363-1 09/19/20 10:50

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

L1263961-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1263961-07 09/19/20 21:52 • (DUP) R3572376-1 09/19/20 22:03

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	774	731	1	5.72	J	15
Nitrate	U	U	1	0.000		15
Sulfate	2080	2070	1	0.318	J	15

L1263969-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1263969-08 09/20/20 01:30 • (DUP) R3572376-5 09/20/20 02:02

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3560	3800	1	6.69		15
Nitrate	U	U	1	0.000		15
Sulfate	1530	2790	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3572363-2 09/19/20 11:03

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	37900	94.7	80.0-120	
Nitrate	8000	8350	104	80.0-120	
Sulfate	40000	41000	103	80.0-120	

L1263969-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1263969-01 09/19/20 22:14 • (MS) R3572376-2 09/19/20 22:25 • (MSD) R3572376-3 09/19/20 22:36

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	3630	54400	54300	101	101	1	80.0-120			0.0372	15
Nitrate	5000	85.8	4900	4970	96.4	97.7	1	80.0-120			1.35	15
Sulfate	50000	1400	52900	52900	103	103	1	80.0-120			0.120	15

L1263969-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1263969-07 09/20/20 00:57 • (MS) R3572376-4 09/20/20 01:08

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	2500	53100	101	1	80.0-120	
Nitrate	5000	U	4930	98.7	1	80.0-120	
Sulfate	50000	1800	53300	103	1	80.0-120	

Method Blank (MB)

(MB) R3572649-1 09/20/20 21:14

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Sulfate	U		594	5000

L1262967-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1262967-01 09/21/20 01:26 • (DUP) R3572649-3 09/21/20 01:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Sulfate	14500	14500	1	0.146		15

L1263502-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1263502-01 09/21/20 05:08 • (DUP) R3572649-6 09/21/20 05:26

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Sulfate	27500	27500	1	0.0276		15

Laboratory Control Sample (LCS)

(LCS) R3572649-2 09/20/20 21:32

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Sulfate	40000	41900	105	80.0-120	

L1262967-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1262967-01 09/21/20 01:26 • (MS) R3572649-4 09/21/20 02:40 • (MSD) R3572649-5 09/21/20 02:59

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	%	%		%			%	%
Sulfate	50000	14500	64800	64600	101	100	1	80.0-120			0.322	15

L1263502-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1263502-01 09/21/20 05:08 • (MS) R3572649-7 09/21/20 06:21

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	ug/l	ug/l	ug/l	%		%	
Sulfate	50000	27500	80300	106	1	80.0-120	

Method Blank (MB)

(MB) R3573357-1 09/22/20 12:38

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	243	J	102	1000

L1263961-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1263961-01 09/22/20 17:39 • (DUP) R3573357-3 09/22/20 17:59

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	2960	2920	1	1.43		20

L1263961-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1263961-07 09/23/20 00:02 • (DUP) R3573357-8 09/23/20 00:20

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	349	309	1	12.2	J	20

Laboratory Control Sample (LCS)

(LCS) R3573357-2 09/22/20 13:15

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	76400	102	85.0-115	

L1263961-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1263961-02 09/22/20 19:43 • (MS) R3573357-4 09/22/20 20:05 • (MSD) R3573357-5 09/22/20 20:31

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 (Total Organic Carbon)	50000	4980	55100	56800	100	104	1	80.0-120			3.06	20

L1263961-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1263961-06 09/22/20 21:40 • (MS) R3573357-6 09/22/20 22:01 • (MSD) R3573357-7 09/22/20 22:28

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 %
TOC (Total Organic Carbon)	50000	37000	85500	85900	96.9	97.8	1	80.0-120			0.560	20

Method Blank (MB)

(MB) R3573849-1 09/24/20 00:53

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) R3573849-2 09/24/20 00:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	5000	5020	100	80.0-120	
Manganese	50.0	48.8	97.5	80.0-120	

L1263961-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1263961-07 09/24/20 01:00 • (MS) R3573849-4 09/24/20 01:07 • (MSD) R3573849-5 09/24/20 01:11

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	5000	69.0	5080	5120	100	101	1	75.0-125			0.855	20
Manganese	50.0	U	51.6	50.5	101	98.8	1	75.0-125			2.08	20

Method Blank (MB)

(MB) R3575414-2 09/25/20 04:32

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	36.0	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	*94.9*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3575414-1 09/25/20 03:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5780	105	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*103*	*78.0-120*	

Method Blank (MB)

(MB) R3575750-2 09/29/20 11:19

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	45.8	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	*116*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3575750-1 09/29/20 10:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5340	97.1	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*102*	*78.0-120*	

Method Blank (MB)

(MB) R3574556-2 09/25/20 14:01

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

L1263952-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1263952-01 09/25/20 14:08 • (DUP) R3574556-3 09/25/20 14:59

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	17.3	16.3	1	5.95		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1263953-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1263953-01 09/25/20 15:03 • (DUP) R3574556-4 09/25/20 15:12

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	18.9	21.1	1	11.0		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1263961-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1263961-03 09/25/20 16:15 • (DUP) R3574556-5 09/25/20 16:19

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	453	426	1	6.14		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) R3574556-1 09/25/20 13:35 • (LCSD) R3574556-6 09/25/20 16:24

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	64.2	65.1	94.7	96.0	85.0-115			1.39	20
Ethane	129	118	123	91.5	95.3	85.0-115			4.15	20
Ethene	127	113	119	89.0	93.7	85.0-115			5.17	20

Method Blank (MB)

(MB) R3575395-2 09/28/20 15:32

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

L1264220-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1264220-03 09/28/20 16:26 • (DUP) R3575395-3 09/28/20 16:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	398	379	1	4.89		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1263961-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1263961-06 09/28/20 17:35 • (DUP) R3575395-4 09/28/20 17:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	10500	10100	1	3.88	E	20
Ethane	U	U	1	0.000		20
Ethene	2010	1940	1	3.54		20

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

(LCS) R3575395-1 09/28/20 15:27 • (LCSD) R3575395-5 09/28/20 17:49

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	67.0	68.5	98.8	101	85.0-115			2.21	20
Ethane	129	121	123	93.8	95.3	85.0-115			1.64	20
Ethene	127	116	118	91.3	92.9	85.0-115			1.71	20

Method Blank (MB)

(MB) R3575274-2 09/28/20 11:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678

L1264637-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1264637-01 09/28/20 11:35 • (DUP) R3575274-3 09/28/20 13:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	15.7	16.4	1	4.36		20

L1264633-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1264633-05 09/28/20 13:50 • (DUP) R3575274-4 09/28/20 14:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	2920	3000	1	2.70		20

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

(LCS) R3575274-1 09/28/20 11:22 • (LCSD) R3575274-5 09/28/20 14:11

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	69.4	67.3	102	99.3	85.0-115			3.07	20

Method Blank (MB)

(MB) R3575648-2 09/29/20 09:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678

L1263661-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1263661-01 09/29/20 09:31 • (DUP) R3575648-3 09/29/20 10:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	21800	21000	10	3.74		20

L1265933-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1265933-04 09/29/20 11:11 • (DUP) R3575648-4 09/29/20 11:18

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	1230	1190	1	3.31		20

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

(LCS) R3575648-1 09/29/20 09:25 • (LCSD) R3575648-5 09/29/20 11:34

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	66.3	64.0	97.8	94.4	85.0-115			3.53	20

Method Blank (MB)

(MB) R3574927-2 09/25/20 16:22

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	0.930	J	0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100

Method Blank (MB)

(MB) R3574927-2 09/25/20 16:22

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	0.202	J	0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*104*			*75.0-131*
(S) 4-Bromofluorobenzene	*105*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3574927-1 09/25/20 15:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	28.2	113	10.0-160	
Acrylonitrile	25.0	30.5	122	45.0-153	

Laboratory Control Sample (LCS)

(LCS) R3574927-1 09/25/20 15:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	5.00	5.24	105	70.0-123	
Bromobenzene	5.00	4.80	96.0	73.0-121	
Bromodichloromethane	5.00	4.96	99.2	73.0-121	
Bromoform	5.00	5.53	111	64.0-132	
Bromomethane	5.00	4.79	95.8	56.0-147	
n-Butylbenzene	5.00	5.33	107	68.0-135	
sec-Butylbenzene	5.00	5.37	107	74.0-130	
tert-Butylbenzene	5.00	4.69	93.8	75.0-127	
Carbon tetrachloride	5.00	5.75	115	66.0-128	
Chlorobenzene	5.00	5.18	104	76.0-128	
Chlorodibromomethane	5.00	5.60	112	74.0-127	
Chloroethane	5.00	4.82	96.4	61.0-134	
Chloroform	5.00	5.19	104	72.0-123	
Chloromethane	5.00	5.03	101	51.0-138	
2-Chlorotoluene	5.00	5.19	104	75.0-124	
4-Chlorotoluene	5.00	5.39	108	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	5.79	116	59.0-130	
1,2-Dibromoethane	5.00	5.36	107	74.0-128	
Dibromomethane	5.00	5.43	109	75.0-122	
1,2-Dichlorobenzene	5.00	5.47	109	76.0-124	
1,3-Dichlorobenzene	5.00	5.40	108	76.0-125	
1,4-Dichlorobenzene	5.00	5.44	109	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	5.29	106	45.0-143	
Dichlorodifluoromethane	5.00	5.87	117	43.0-156	
1,1-Dichloroethane	5.00	5.06	101	70.0-127	
1,2-Dichloroethane	5.00	5.06	101	65.0-131	
1,1-Dichloroethene	5.00	5.43	109	65.0-131	
cis-1,2-Dichloroethene	5.00	5.23	105	73.0-125	
trans-1,2-Dichloroethene	5.00	5.49	110	71.0-125	
1,2-Dichloropropane	5.00	5.49	110	74.0-125	
1,1-Dichloropropene	5.00	5.74	115	73.0-125	
1,3-Dichloropropane	5.00	5.39	108	80.0-125	
cis-1,3-Dichloropropene	5.00	5.49	110	76.0-127	
trans-1,3-Dichloropropene	5.00	5.37	107	73.0-127	
2,2-Dichloropropane	5.00	5.11	102	59.0-135	
Di-isopropyl ether	5.00	5.32	106	60.0-136	
Ethylbenzene	5.00	5.49	110	74.0-126	
Ethyl ether	5.00	5.37	107	64.0-137	
Hexachloro-1,3-butadiene	5.00	5.36	107	57.0-150	
Iodomethane	25.0	26.3	105	74.0-134	

Laboratory Control Sample (LCS)

(LCS) R3574927-1 09/25/20 15:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Isopropylbenzene	5.00	5.61	112	72.0-127	
p-Isopropyltoluene	5.00	4.86	97.2	72.0-133	
2-Butanone (MEK)	25.0	27.6	110	30.0-160	
Methylene Chloride	5.00	4.95	99.0	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	28.4	114	56.0-143	
Methyl tert-butyl ether	5.00	5.60	112	66.0-132	
Naphthalene	5.00	5.87	117	59.0-130	
n-Propylbenzene	5.00	5.49	110	74.0-126	
Styrene	5.00	5.43	109	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	5.53	111	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	5.35	107	68.0-128	
Tetrachloroethene	5.00	5.81	116	70.0-136	
Tetrahydrofuran	5.00	5.30	106	37.0-146	
Toluene	5.00	5.08	102	75.0-121	
1,1,2-Trichlorotrifluoroethane	5.00	5.44	109	61.0-139	
1,2,4-Trichlorobenzene	5.00	5.63	113	62.0-137	
1,1,1-Trichloroethane	5.00	5.60	112	69.0-126	
1,1,2-Trichloroethane	5.00	5.50	110	78.0-123	
Trichlorofluoromethane	5.00	5.12	102	61.0-142	
1,2,3-Trichloropropane	5.00	5.35	107	67.0-129	
1,2,3-Trimethylbenzene	5.00	5.45	109	74.0-124	
1,2,4-Trimethylbenzene	5.00	4.80	96.0	70.0-126	
1,3,5-Trimethylbenzene	5.00	5.64	113	73.0-127	
Vinyl chloride	5.00	4.99	99.8	63.0-134	
Xylenes, Total	15.0	16.9	113	72.0-127	
Allyl chloride	25.0	26.6	106	70.0-131	
(S) Toluene-d8			*102*	*75.0-131*	
(S) 4-Bromofluorobenzene			*105*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*95.7*	*70.0-130*	

L1264389-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1264389-01 09/25/20 23:10 • (MS) R3574927-3 09/26/20 03:14 • (MSD) R3574927-4 09/26/20 03:35

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	2.02	45.1	43.4	172	166	1	10.0-160	J5	J5	3.84	40
Acrylonitrile	25.0	U	37.0	35.3	148	141	1	10.0-160			4.70	40
Benzene	5.00	U	5.55	5.22	111	104	1	10.0-149			6.13	37
Bromobenzene	5.00	U	5.11	4.85	102	97.0	1	10.0-156			5.22	38

L1264389-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1264389-01 09/25/20 23:10 • (MS) R3574927-3 09/26/20 03:14 • (MSD) R3574927-4 09/26/20 03:35

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 %
Bromodichloromethane	5.00	U	5.39	5.13	108	103	1	10.0-143			4.94	37
Bromoform	5.00	U	6.09	5.78	122	116	1	10.0-146			5.22	36
Bromomethane	5.00	U	5.18	4.80	104	96.0	1	10.0-149			7.62	38
n-Butylbenzene	5.00	U	5.24	4.99	105	99.8	1	10.0-160			4.89	40
sec-Butylbenzene	5.00	U	5.43	5.19	109	104	1	10.0-159			4.52	39
tert-Butylbenzene	5.00	U	4.76	4.43	95.2	88.6	1	10.0-156			7.18	39
Carbon tetrachloride	5.00	U	6.62	6.37	132	127	1	10.0-145			3.85	37
Chlorobenzene	5.00	U	5.39	4.99	108	99.8	1	10.0-152			7.71	39
Chlorodibromomethane	5.00	U	6.02	5.69	120	114	1	10.0-146			5.64	37
Chloroethane	5.00	U	5.32	5.12	106	102	1	10.0-146			3.83	40
Chloroform	5.00	U	5.63	5.37	113	107	1	10.0-146			4.73	37
Chloromethane	5.00	U	4.78	4.44	95.6	88.8	1	10.0-159			7.38	37
2-Chlorotoluene	5.00	U	5.49	5.01	110	100	1	10.0-159			9.14	38
4-Chlorotoluene	5.00	U	5.54	5.17	111	103	1	10.0-155			6.91	39
1,2-Dibromo-3-Chloropropane	5.00	U	6.68	6.00	134	120	1	10.0-151			10.7	39
1,2-Dibromoethane	5.00	U	5.65	5.30	113	106	1	10.0-148			6.39	34
Dibromomethane	5.00	U	6.01	5.53	120	111	1	10.0-147			8.32	35
1,2-Dichlorobenzene	5.00	U	5.78	5.39	116	108	1	10.0-155			6.98	37
1,3-Dichlorobenzene	5.00	U	5.75	5.36	115	107	1	10.0-153			7.02	38
1,4-Dichlorobenzene	5.00	U	5.43	5.26	109	105	1	10.0-151			3.18	38
trans-1,4-Dichloro-2-butene	5.00	U	5.65	5.14	113	103	1	10.0-152			9.45	36
Dichlorodifluoromethane	5.00	U	5.19	5.12	104	102	1	10.0-160			1.36	35
1,1-Dichloroethane	5.00	U	5.71	5.24	114	105	1	10.0-147			8.58	37
1,2-Dichloroethane	5.00	U	5.47	5.23	109	105	1	10.0-148			4.49	35
1,1-Dichloroethene	5.00	U	5.88	5.60	118	112	1	10.0-155			4.88	37
cis-1,2-Dichloroethene	5.00	U	5.53	5.21	111	104	1	10.0-149			5.96	37
trans-1,2-Dichloroethene	5.00	U	5.99	5.42	120	108	1	10.0-150			9.99	37
1,2-Dichloropropane	5.00	U	5.64	5.23	113	105	1	10.0-148			7.54	37
1,1-Dichloropropene	5.00	U	5.87	5.69	117	114	1	10.0-153			3.11	35
1,3-Dichloropropane	5.00	U	5.57	5.33	111	107	1	10.0-154			4.40	35
cis-1,3-Dichloropropene	5.00	U	5.32	5.06	106	101	1	10.0-151			5.01	37
trans-1,3-Dichloropropene	5.00	U	5.63	5.03	113	101	1	10.0-148			11.3	37
2,2-Dichloropropane	5.00	U	5.22	5.05	104	101	1	10.0-138			3.31	36
Di-isopropyl ether	5.00	U	5.73	5.24	115	105	1	10.0-147			8.93	36
Ethylbenzene	5.00	U	5.64	5.19	113	104	1	10.0-160			8.31	38
Ethyl ether	5.00	U	5.74	5.56	115	111	1	10.0-160			3.19	31
Hexachloro-1,3-butadiene	5.00	U	4.95	4.95	99.0	99.0	1	10.0-160			0.000	40
Iodomethane	25.0	U	27.0	26.0	108	104	1	10.0-160			3.77	38
Isopropylbenzene	5.00	U	5.85	5.48	117	110	1	10.0-155			6.53	38
p-Isopropyltoluene	5.00	U	4.81	4.55	96.2	91.0	1	10.0-160			5.56	40

L1264389-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1264389-01 09/25/20 23:10 • (MS) R3574927-3 09/26/20 03:14 • (MSD) R3574927-4 09/26/20 03:35

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-Butanone (MEK)	25.0	U	35.0	32.1	140	128	1	10.0-160			8.64	40
Methylene Chloride	5.00	U	5.26	5.06	105	101	1	10.0-141			3.88	37
4-Methyl-2-pentanone (MIBK)	25.0	U	31.5	29.9	126	120	1	10.0-160			5.21	35
Methyl tert-butyl ether	5.00	U	6.07	5.70	121	114	1	11.0-147			6.29	35
Naphthalene	5.00	U	5.16	5.45	103	109	1	10.0-160			5.47	36
n-Propylbenzene	5.00	U	5.65	5.23	113	105	1	10.0-158			7.72	38
Styrene	5.00	U	5.60	5.21	112	104	1	10.0-160			7.22	40
1,1,1,2-Tetrachloroethane	5.00	U	5.73	5.58	115	112	1	10.0-149			2.65	39
1,1,2,2-Tetrachloroethane	5.00	U	6.10	5.61	122	112	1	10.0-160			8.37	35
Tetrachloroethene	5.00	0.151	6.29	5.85	123	114	1	10.0-156			7.25	39
Tetrahydrofuran	5.00	U	5.60	5.19	112	104	1	10.0-158			7.60	33
Toluene	5.00	U	5.25	4.97	105	99.4	1	10.0-156			5.48	38
1,1,2-Trichlorotrifluoroethane	5.00	U	5.90	5.77	118	115	1	10.0-160			2.23	36
1,2,4-Trichlorobenzene	5.00	U	5.02	5.04	100	101	1	10.0-160			0.398	40
1,1,1-Trichloroethane	5.00	U	6.44	6.00	129	120	1	10.0-144			7.07	35
1,1,2-Trichloroethane	5.00	U	5.79	5.28	116	106	1	10.0-160			9.21	35
Trichlorofluoromethane	5.00	U	6.12	5.93	122	119	1	10.0-160			3.15	40
1,2,3-Trichloropropane	5.00	U	6.12	5.80	122	116	1	10.0-156			5.37	35
1,2,3-Trimethylbenzene	5.00	U	5.63	5.26	113	105	1	10.0-160			6.80	36
1,2,4-Trimethylbenzene	5.00	U	4.98	4.57	99.6	91.4	1	10.0-160			8.59	36
1,3,5-Trimethylbenzene	5.00	U	5.85	5.39	117	108	1	10.0-160			8.19	38
Vinyl chloride	5.00	U	5.48	5.22	110	104	1	10.0-160			4.86	37
Xylenes, Total	15.0	U	17.3	16.2	115	108	1	10.0-160			6.57	38
Allyl chloride	25.0	U	28.0	26.7	112	107	1	10.0-160			4.75	30
(S) Toluene-d8					*101*	*100*		*75.0-131*				
(S) 4-Bromofluorobenzene					*105*	*104*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*98.9*	*99.9*		*70.0-130*				

Method Blank (MB)

(MB) R3575902-2 09/29/20 12:05

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
Trichloroethene	U		0.0160	0.0400
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*105*			*75.0-131*
(S) 4-Bromofluorobenzene	*102*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3575902-1 09/29/20 11:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	5.00	5.95	119	73.0-125	
1,2,3-Trichlorobenzene	5.00	4.14	82.8	59.0-139	
Trichloroethene	5.00	5.09	102	76.0-126	
Vinyl chloride	5.00	5.33	107	63.0-134	
(S) Toluene-d8			*104*	*75.0-131*	
(S) 4-Bromofluorobenzene			*108*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*102*	*70.0-130*	

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.
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.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

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	LAO00356
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

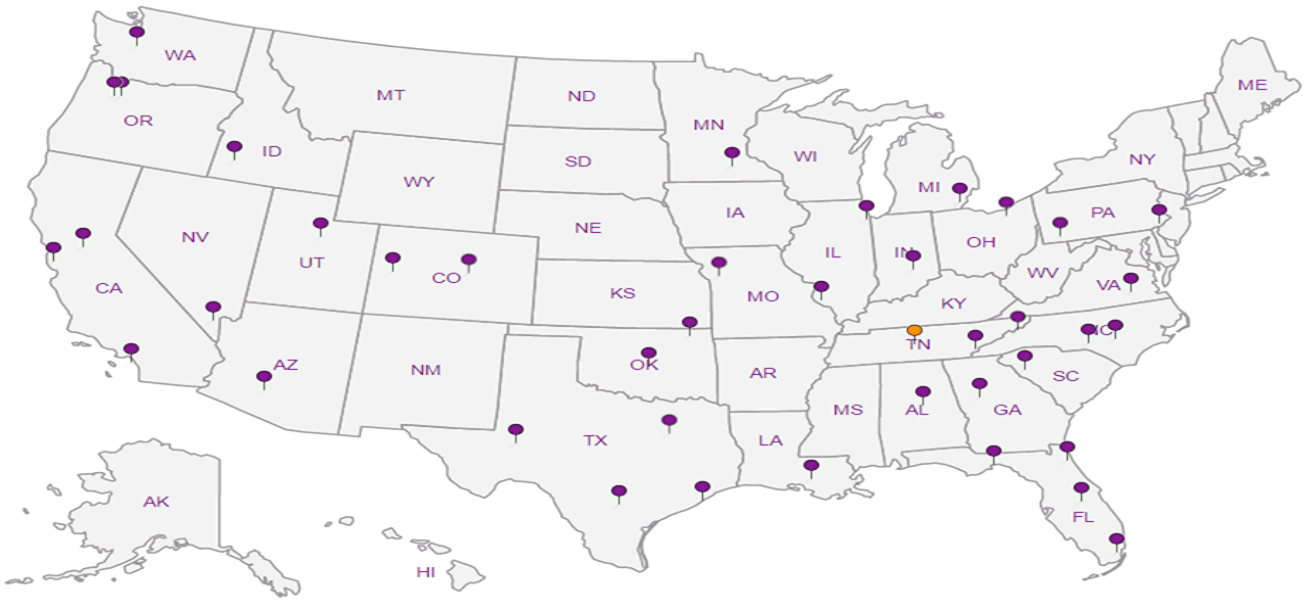
Third Party Federal Accreditations

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.



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 # 1413.001.05.GOI

Lab Project # **PESENVSWA-ALP**

Collected by (print): Ben Hunt / Hannah C.

Site/Facility ID # American Linen

P.O. #

Collected by (signature): Hannah Colvin

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed: Standard TAT

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHGX 40mlAmb HCl	NO3,Cl,SO4 125mL NoPres	ALK 125 mL NoPres	RSK175CL 40mLAmb HCl	TOC 250 mL HCl <2	Total Fe Mn 250mL HNO3 <2	V8260LLC 40mLAmb HCl			Remarks	Sample # (lab only)
PRB-101-091820	Grab	GW	102.5	9-18-20	8:00	12	X	X	X	X	X	X	X				-01
PRB-D20-091820	"	GW	101	"	10:00	12	X	X	X	X	X	X	X				-02
PRB-D13-091820	"	GW	95	"	10:37	12	X	X	X	X	X	X	X				-03
PRB-B19-091820	"	GW	70	"	11:55	12	X	X	X	X	X	X	X				-04
PRB-D23-091820	"	GW	102.5	"	13:25	12	X	X	X	X	X	X	X				-05
PRB-B23-091820	"	GW	74	"	14:15	12	X	X	X	X	X	X	X				-06
EQ-091820	"	GW	—	"	1530 TB	12											-07
		GW															
		GW															
		GW															

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

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 # L1263961

Table # A053

Acctnum: PESENVSWA

Template: T174216

Prelogin: P797567

PM: 546 - Jared Starkey

PB:

Shipped Via:

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 1922 0802 6710

Sample Receipt Checklist
COC Seal Present/Intact: NP ___Y ___N
COC Signed/Accurate: ___Y ___N
Bottles arrive intact: ___Y ___N
Correct bottles used: ___Y ___N
Sufficient volume sent: ___Y ___N
If Applicable
VOA Zero Headspace: ___Y ___N
Preservation Correct/Checked: ___Y ___N
RAD Screen <0.5 mR/hr: ___Y ___N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Hannah Colvin	9/18/20	1630	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			B. Barnes

Trip Blank Received: Yes / No (No) HCL / MeoH TBR

Temp: 3.7-7.2=3.9 °C Bottles Received: 84

Date: 9-19-20 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

October 23, 2020

Revised Report

PES Environmental, Inc.- WA

Sample Delivery Group:	L1265092
Samples Received:	09/23/2020
Project Number:	1413.001.05.601
Description:	American Linen
Site:	1413.001.05.601
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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PRB-D17-092120 L1265092-01 GW

Collected by	Collected date/time	Received date/time
Karsten Springstead	09/21/20 12:50	09/23/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1548048	1	09/24/20 13:16	09/24/20 13:16	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1547834	1	09/23/20 17:04	09/23/20 17:04	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1548552	1	09/25/20 12:35	09/25/20 12:35	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1549469	5	09/28/20 11:03	09/29/20 16:08	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1550769	1	09/29/20 21:35	09/29/20 21:35	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1550399	1	09/29/20 11:51	09/29/20 11:51	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1551544	10	09/30/20 10:59	09/30/20 10:59	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1553080	1	10/02/20 12:21	10/02/20 12:21	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1553199	25	10/04/20 09:36	10/04/20 09:36	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

Report Revision History

Level II Report - Version 1: 10/05/20 10:00

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	261000		8450	20000	1	09/24/2020 13:16	WG1548048

Sample Narrative:

L1265092-01 WG1548048: 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	09/23/2020 17:04	WG1547834
Nitrate	U	T8	48.0	100	1	09/23/2020 17:04	WG1547834
Sulfate	20000		594	5000	1	09/23/2020 17:04	WG1547834

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	09/25/2020 12:35	WG1548552

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	8340		244	500	5	09/29/2020 16:08	WG1549469
Manganese	1060		6.60	25.0	5	09/29/2020 16:08	WG1549469

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	134	B	31.6	100	1	09/29/2020 21:35	WG1550769
(S) a,a,a-Trifluorotoluene(FID)	*117*			*78.0-120*		*09/29/2020 21:35*	WG1550769

Sample Narrative:

L1265092-01 WG1550769: No discernible 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	10500		2.87	6.78	10	09/30/2020 10:59	WG1551544
Ethane	9.58		0.296	1.29	1	09/29/2020 11:51	WG1550399
Ethene	671		0.422	1.27	1	09/29/2020 11:51	WG1550399

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.54	J0	0.548	1.00	1	10/02/2020 12:21	WG1553080
Acrylonitrile	U		0.0760	0.500	1	10/02/2020 12:21	WG1553080
Benzene	0.0460	B	0.0160	0.0400	1	10/02/2020 12:21	WG1553080
Bromobenzene	U		0.0420	0.500	1	10/02/2020 12:21	WG1553080
Bromodichloromethane	U		0.0315	0.100	1	10/02/2020 12:21	WG1553080
Bromoform	U		0.239	1.00	1	10/02/2020 12:21	WG1553080
Bromomethane	U		0.148	0.500	1	10/02/2020 12:21	WG1553080
n-Butylbenzene	U		0.153	0.500	1	10/02/2020 12:21	WG1553080
sec-Butylbenzene	U		0.101	0.500	1	10/02/2020 12:21	WG1553080
tert-Butylbenzene	U		0.0620	0.200	1	10/02/2020 12:21	WG1553080

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Carbon tetrachloride	U		0.0432	0.200	1	10/02/2020 12:21	WG1553080
Chlorobenzene	U		0.0229	0.100	1	10/02/2020 12:21	WG1553080
Chlorodibromomethane	U		0.0180	0.100	1	10/02/2020 12:21	WG1553080
Chloroethane	2.36		0.0432	0.200	1	10/02/2020 12:21	WG1553080
Chloroform	U		0.0166	0.100	1	10/02/2020 12:21	WG1553080
Chloromethane	U		0.0556	0.500	1	10/02/2020 12:21	WG1553080
2-Chlorotoluene	U		0.0368	0.100	1	10/02/2020 12:21	WG1553080
4-Chlorotoluene	U		0.0452	0.200	1	10/02/2020 12:21	WG1553080
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	10/02/2020 12:21	WG1553080
1,2-Dibromoethane	U		0.0210	0.100	1	10/02/2020 12:21	WG1553080
Dibromomethane	U		0.0400	0.200	1	10/02/2020 12:21	WG1553080
1,2-Dichlorobenzene	U		0.0580	0.200	1	10/02/2020 12:21	WG1553080
1,3-Dichlorobenzene	U		0.0680	0.200	1	10/02/2020 12:21	WG1553080
1,4-Dichlorobenzene	U		0.0788	0.200	1	10/02/2020 12:21	WG1553080
Dichlorodifluoromethane	U		0.0327	0.100	1	10/02/2020 12:21	WG1553080
1,1-Dichloroethane	U		0.0230	0.100	1	10/02/2020 12:21	WG1553080
1,2-Dichloroethane	U		0.0190	0.100	1	10/02/2020 12:21	WG1553080
1,1-Dichloroethene	0.373		0.0200	0.100	1	10/02/2020 12:21	WG1553080
cis-1,2-Dichloroethene	100		0.0276	0.100	1	10/02/2020 12:21	WG1553080
trans-1,2-Dichloroethene	0.492		0.0572	0.200	1	10/02/2020 12:21	WG1553080
1,2-Dichloropropane	U		0.0508	0.200	1	10/02/2020 12:21	WG1553080
1,1-Dichloropropene	U		0.0280	0.100	1	10/02/2020 12:21	WG1553080
1,3-Dichloropropane	U		0.0700	0.200	1	10/02/2020 12:21	WG1553080
cis-1,3-Dichloropropene	U		0.0271	0.100	1	10/02/2020 12:21	WG1553080
trans-1,3-Dichloropropene	U		0.0612	0.200	1	10/02/2020 12:21	WG1553080
2,2-Dichloropropane	U		0.0317	0.100	1	10/02/2020 12:21	WG1553080
Di-isopropyl ether	U		0.0140	0.0400	1	10/02/2020 12:21	WG1553080
Ethylbenzene	U		0.0212	0.100	1	10/02/2020 12:21	WG1553080
Hexachloro-1,3-butadiene	U		0.508	1.00	1	10/02/2020 12:21	WG1553080
Isopropylbenzene	U		0.0345	0.100	1	10/02/2020 12:21	WG1553080
p-Isopropyltoluene	U		0.0932	0.200	1	10/02/2020 12:21	WG1553080
2-Butanone (MEK)	U		0.500	1.00	1	10/02/2020 12:21	WG1553080
Methylene Chloride	U		0.265	1.00	1	10/02/2020 12:21	WG1553080
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	10/02/2020 12:21	WG1553080
Methyl tert-butyl ether	U	J0	0.0118	0.0400	1	10/02/2020 12:21	WG1553080
Naphthalene	U		0.124	0.500	1	10/02/2020 12:21	WG1553080
n-Propylbenzene	U		0.0472	0.200	1	10/02/2020 12:21	WG1553080
Styrene	U		0.109	0.500	1	10/02/2020 12:21	WG1553080
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	10/02/2020 12:21	WG1553080
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	10/02/2020 12:21	WG1553080
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	10/02/2020 12:21	WG1553080
Tetrachloroethene	0.0750	J	0.0280	0.100	1	10/02/2020 12:21	WG1553080
Toluene	0.342		0.0500	0.200	1	10/02/2020 12:21	WG1553080
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	10/02/2020 12:21	WG1553080
1,2,4-Trichlorobenzene	U		0.193	0.500	1	10/02/2020 12:21	WG1553080
1,1,1-Trichloroethane	U		0.0110	0.100	1	10/02/2020 12:21	WG1553080
1,1,2-Trichloroethane	U		0.0353	0.100	1	10/02/2020 12:21	WG1553080
Trichloroethene	0.0860		0.0160	0.0400	1	10/02/2020 12:21	WG1553080
Trichlorofluoromethane	U		0.0200	0.100	1	10/02/2020 12:21	WG1553080
1,2,3-Trichloropropane	U		0.204	0.500	1	10/02/2020 12:21	WG1553080
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	10/02/2020 12:21	WG1553080
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	10/02/2020 12:21	WG1553080
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	10/02/2020 12:21	WG1553080
Vinyl chloride	476		0.682	2.50	25	10/04/2020 09:36	WG1553199
Xylenes, Total	U		0.191	0.260	1	10/02/2020 12:21	WG1553080
Ethyl Ether	U		0.0170	0.100	1	10/02/2020 12:21	WG1553080

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Tetrahydrofuran	1.28	J0	0.0900	0.500	1	10/02/2020 12:21	WG1553080
Iodomethane	U		0.242	0.500	1	10/02/2020 12:21	WG1553080
Allyl chloride	U		0.580	1.00	1	10/02/2020 12:21	WG1553080
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	10/02/2020 12:21	WG1553080
(S) Toluene-d8	*115*			*75.0-131*		*10/02/2020 12:21*	WG1553080
(S) Toluene-d8	*114*			*75.0-131*		*10/04/2020 09:36*	WG1553199
(S) 4-Bromofluorobenzene	*90.0*			*67.0-138*		*10/02/2020 12:21*	WG1553080
(S) 4-Bromofluorobenzene	*87.6*			*67.0-138*		*10/04/2020 09:36*	WG1553199
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*10/02/2020 12:21*	WG1553080
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*10/04/2020 09:36*	WG1553199

Method Blank (MB)

(MB) R3574194-1 09/24/20 11:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Alkalinity	U		8450	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1264544-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1264544-01 09/24/20 11:20 • (DUP) R3574194-2 09/24/20 11:29

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	167000	166000	1	1.05		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1265108-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1265108-01 09/24/20 13:42 • (DUP) R3574194-4 09/24/20 13:51

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	249000	247000	1	0.528		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3574194-3 09/24/20 12:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	97100	97.1	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R3574073-1 09/23/20 11:04

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

L1265128-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1265128-03 09/23/20 13:52 • (DUP) R3574073-3 09/23/20 14:05

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	916	911	1	0.000		15
Nitrate	264	239	1	10.2		15
Sulfate	U	U	1	0.000		15

L1265016-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1265016-01 09/23/20 15:07 • (DUP) R3574073-4 09/23/20 15:21

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	4260	4160	1	2.26		15
Nitrate	1760	1760	1	0.0681		15
Sulfate	1150	1110	1	4.03	J	15

Laboratory Control Sample (LCS)

(LCS) R3574073-2 09/23/20 11:17

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	39700	99.2	80.0-120	
Nitrate	8000	7970	99.6	80.0-120	
Sulfate	40000	39400	98.4	80.0-120	

L1265016-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265016-02 09/23/20 16:25 • (MS) R3574073-5 09/23/20 16:38 • (MSD) R3574073-6 09/23/20 16:52

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	2680	53200	53200	101	101	1	80.0-120			0.0182	15
Nitrate	5000	U	4930	4910	98.7	98.1	1	80.0-120			0.565	15
Sulfate	50000	707	50400	50300	99.3	99.3	1	80.0-120			0.00636	15

L1265128-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1265128-04 09/23/20 20:48 • (MS) R3574073-7 09/23/20 21:01

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	1020	51300	101	1	80.0-120	
Nitrate	5000	159	5160	100	1	80.0-120	
Sulfate	50000	4770	54400	99.3	1	80.0-120	

Method Blank (MB)

(MB) R3574680-1 09/24/20 12:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	359	J	102	1000

L1265084-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1265084-02 09/24/20 15:35 • (DUP) R3574680-3 09/24/20 15:48

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	645	610	1	5.69	J	20

L1265499-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1265499-05 09/25/20 16:33 • (DUP) R3574680-10 09/25/20 16:46

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	2270	1890	1	18.7		20

Laboratory Control Sample (LCS)

(LCS) R3574680-2 09/24/20 12:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	71200	94.9	85.0-115	

L1265084-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265084-03 09/24/20 16:05 • (MS) R3574680-4 09/24/20 16:28 • (MSD) R3574680-5 09/24/20 16:49

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 (Total Organic Carbon)	50000	649	47100	46400	92.9	91.6	1	80.0-120			1.39	20

L1265084-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1265084-07 09/25/20 11:24 • (MS) R3574680-8 09/25/20 11:50 • (MSD) R3574680-9 09/25/20 12:19

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 (Total Organic Carbon)	50000	724	48700	47800	95.9	94.2	1	80.0-120			1.76	20

Method Blank (MB)

(MB) R3575470-1 09/28/20 23:57

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

Laboratory Control Sample (LCS)

(LCS) R3575470-2 09/29/20 00:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	5000	5190	104	80.0-120	
Manganese	50.0	51.0	102	80.0-120	

L1263093-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1263093-01 09/29/20 00:03 • (MS) R3575470-4 09/29/20 00:10 • (MSD) R3575470-5 09/29/20 00:13

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	63.0	5260	5270	104	104	1	75.0-125			0.122	20
Manganese	50.0	4.84	55.2	55.1	101	101	1	75.0-125			0.115	20

Method Blank (MB)

(MB) R3575751-2 09/29/20 11:19

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	45.8	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	*116*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3575751-1 09/29/20 10:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5340	97.1	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*102*	*78.0-120*	

Method Blank (MB)

(MB) R3575727-2 09/29/20 11:41

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

L1265136-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1265136-01 09/29/20 11:55 • (DUP) R3575727-3 09/29/20 13:36

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

L1265721-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1265721-01 09/29/20 14:07 • (DUP) R3575727-4 09/29/20 14:12

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

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

(LCS) R3575727-1 09/29/20 11:34 • (LCSD) R3575727-5 09/29/20 14:15

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	%	%	%			%	%
Ethane	129	117	130	90.7	101	85.0-115			10.5	20
Ethene	127	114	125	89.8	98.4	85.0-115			9.21	20

Method Blank (MB)

(MB) R3576150-2 09/30/20 10:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678

L1266359-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1266359-03 09/30/20 11:13 • (DUP) R3576150-3 09/30/20 11:34

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	1020	1080	1	5.71		20

L1266673-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1266673-01 09/30/20 11:58 • (DUP) R3576150-4 09/30/20 13:08

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

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

(LCS) R3576150-1 09/30/20 10:47 • (LCSD) R3576150-5 09/30/20 13:11

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	62.9	64.2	92.8	94.7	85.0-115			2.05	20

Method Blank (MB)

(MB) R3577140-3 10/02/20 10:02

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

Method Blank (MB)

(MB) R3577140-3 10/02/20 10:02

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*111*			*75.0-131*
(S) 4-Bromofluorobenzene	*87.7*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*

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

(LCS) R3577140-1 10/02/20 09:05 • (LCSD) R3577140-2 10/02/20 09:24

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	10.6	9.04	42.4	36.2	10.0-160			15.9	31
Acrylonitrile	25.0	19.9	23.5	79.6	94.0	45.0-153			16.6	22
Benzene	5.00	4.57	4.68	91.4	93.6	70.0-123			2.38	20
Bromobenzene	5.00	5.47	5.46	109	109	73.0-121			0.183	20
Bromodichloromethane	5.00	4.40	4.68	88.0	93.6	73.0-121			6.17	20
Bromoform	5.00	4.25	4.55	85.0	91.0	64.0-132			6.82	20
Bromomethane	5.00	5.27	5.39	105	108	56.0-147			2.25	20
n-Butylbenzene	5.00	4.78	4.65	95.6	93.0	68.0-135			2.76	20
sec-Butylbenzene	5.00	5.64	5.57	113	111	74.0-130			1.25	20
tert-Butylbenzene	5.00	5.58	5.50	112	110	75.0-127			1.44	20
Carbon tetrachloride	5.00	5.11	4.25	102	85.0	66.0-128			18.4	20
Chlorobenzene	5.00	5.07	5.27	101	105	76.0-128			3.87	20
Chlorodibromomethane	5.00	5.36	5.34	107	107	74.0-127			0.374	20
Chloroethane	5.00	6.60	6.38	132	128	61.0-134			3.39	20
Chloroform	5.00	4.33	4.33	86.6	86.6	72.0-123			0.000	20
Chloromethane	5.00	6.46	6.33	129	127	51.0-138			2.03	20
2-Chlorotoluene	5.00	5.21	5.06	104	101	75.0-124			2.92	20
4-Chlorotoluene	5.00	5.03	5.02	101	100	75.0-124			0.199	20
1,2-Dibromo-3-Chloropropane	5.00	4.36	4.86	87.2	97.2	59.0-130			10.8	20
1,2-Dibromoethane	5.00	5.02	4.91	100	98.2	74.0-128			2.22	20
Dibromomethane	5.00	4.36	4.38	87.2	87.6	75.0-122			0.458	20
1,2-Dichlorobenzene	5.00	4.76	4.88	95.2	97.6	76.0-124			2.49	20
1,3-Dichlorobenzene	5.00	5.03	4.87	101	97.4	76.0-125			3.23	20
1,4-Dichlorobenzene	5.00	4.76	4.71	95.2	94.2	77.0-121			1.06	20
trans-1,4-Dichloro-2-butene	5.00	6.11	5.97	122	119	45.0-143			2.32	20
Dichlorodifluoromethane	5.00	4.36	4.40	87.2	88.0	43.0-156			0.913	20
1,1-Dichloroethane	5.00	5.56	5.75	111	115	70.0-127			3.36	20
1,2-Dichloroethane	5.00	4.91	5.03	98.2	101	65.0-131			2.41	20
1,1-Dichloroethene	5.00	6.26	5.60	125	112	65.0-131			11.1	20
cis-1,2-Dichloroethene	5.00	4.31	4.46	86.2	89.2	73.0-125			3.42	20
trans-1,2-Dichloroethene	5.00	4.63	4.62	92.6	92.4	71.0-125			0.216	20
1,2-Dichloropropane	5.00	5.75	5.83	115	117	74.0-125			1.38	20
1,1-Dichloropropene	5.00	4.72	4.54	94.4	90.8	73.0-125			3.89	20
1,3-Dichloropropane	5.00	4.96	4.83	99.2	96.6	80.0-125			2.66	20
cis-1,3-Dichloropropene	5.00	4.40	4.40	88.0	88.0	76.0-127			0.000	20
trans-1,3-Dichloropropene	5.00	5.28	5.08	106	102	73.0-127			3.86	20
2,2-Dichloropropane	5.00	4.33	3.78	86.6	75.6	59.0-135			13.6	20
Di-isopropyl ether	5.00	5.30	5.09	106	102	60.0-136			4.04	20
Ethylbenzene	5.00	5.06	5.10	101	102	74.0-126			0.787	20
Ethyl ether	5.00	6.20	5.77	124	115	64.0-137			7.18	20

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

(LCS) R3577140-1 10/02/20 09:05 • (LCSD) R3577140-2 10/02/20 09:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	5.92	5.81	118	116	57.0-150			1.88	20
Iodomethane	25.0	23.2	23.6	92.8	94.4	74.0-134			1.71	20
Isopropylbenzene	5.00	4.77	4.77	95.4	95.4	72.0-127			0.000	20
p-Isopropyltoluene	5.00	5.52	5.32	110	106	72.0-133			3.69	20
2-Butanone (MEK)	25.0	21.5	23.4	86.0	93.6	30.0-160			8.46	24
Methylene Chloride	5.00	4.20	4.38	84.0	87.6	68.0-123			4.20	20
4-Methyl-2-pentanone (MIBK)	25.0	27.9	28.7	112	115	56.0-143			2.83	20
Methyl tert-butyl ether	5.00	3.88	3.96	77.6	79.2	66.0-132			2.04	20
Naphthalene	5.00	4.72	5.44	94.4	109	59.0-130			14.2	20
n-Propylbenzene	5.00	5.11	5.14	102	103	74.0-126			0.585	20
Styrene	5.00	4.70	4.85	94.0	97.0	72.0-127			3.14	20
1,1,1,2-Tetrachloroethane	5.00	5.21	4.96	104	99.2	74.0-129			4.92	20
1,1,2,2-Tetrachloroethane	5.00	4.90	4.89	98.0	97.8	68.0-128			0.204	20
Tetrachloroethene	5.00	5.87	5.80	117	116	70.0-136			1.20	20
Tetrahydrofuran	5.00	4.40	4.40	88.0	88.0	37.0-146			0.000	24
Toluene	5.00	5.46	5.45	109	109	75.0-121			0.183	20
1,1,2-Trichlorotrifluoroethane	5.00	5.32	5.04	106	101	61.0-139			5.41	20
1,2,3-Trichlorobenzene	5.00	5.81	6.02	116	120	59.0-139			3.55	20
1,2,4-Trichlorobenzene	5.00	5.08	4.76	102	95.2	62.0-137			6.50	20
1,1,1-Trichloroethane	5.00	4.83	4.44	96.6	88.8	69.0-126			8.41	20
1,1,2-Trichloroethane	5.00	5.07	4.92	101	98.4	78.0-123			3.00	20
Trichloroethene	5.00	5.25	5.24	105	105	76.0-126			0.191	20
Trichlorofluoromethane	5.00	4.85	4.77	97.0	95.4	61.0-142			1.66	20
1,2,3-Trichloropropane	5.00	4.54	4.63	90.8	92.6	67.0-129			1.96	20
1,2,3-Trimethylbenzene	5.00	5.02	5.08	100	102	74.0-124			1.19	20
1,2,4-Trimethylbenzene	5.00	5.15	5.16	103	103	70.0-126			0.194	20
1,3,5-Trimethylbenzene	5.00	5.24	5.08	105	102	73.0-127			3.10	20
Xylenes, Total	15.0	14.9	15.1	99.3	101	72.0-127			1.33	20
Allyl chloride	25.0	23.0	22.5	92.0	90.0	70.0-131			2.20	20
(S) Toluene-d8				*110*	*111*	*75.0-131*				
(S) 4-Bromofluorobenzene				*89.0*	*91.4*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*104*	*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) R3577586-3 10/04/20 07:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*112*			*75.0-131*
(S) 4-Bromofluorobenzene	*91.8*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*

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

(LCS) R3577586-1 10/04/20 06:45 • (LCSD) R3577586-2 10/04/20 07:05

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 %
Vinyl chloride	5.00	5.63	5.42	113	108	63.0-134			3.80	20
(S) Toluene-d8				*110*	*111*	*75.0-131*				
(S) 4-Bromofluorobenzene				*90.7*	*86.9*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*116*	*113*	*70.0-130*				

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 met method criteria.
T8	Sample(s) received past/too close to holding time expiration.

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	LAO00356
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

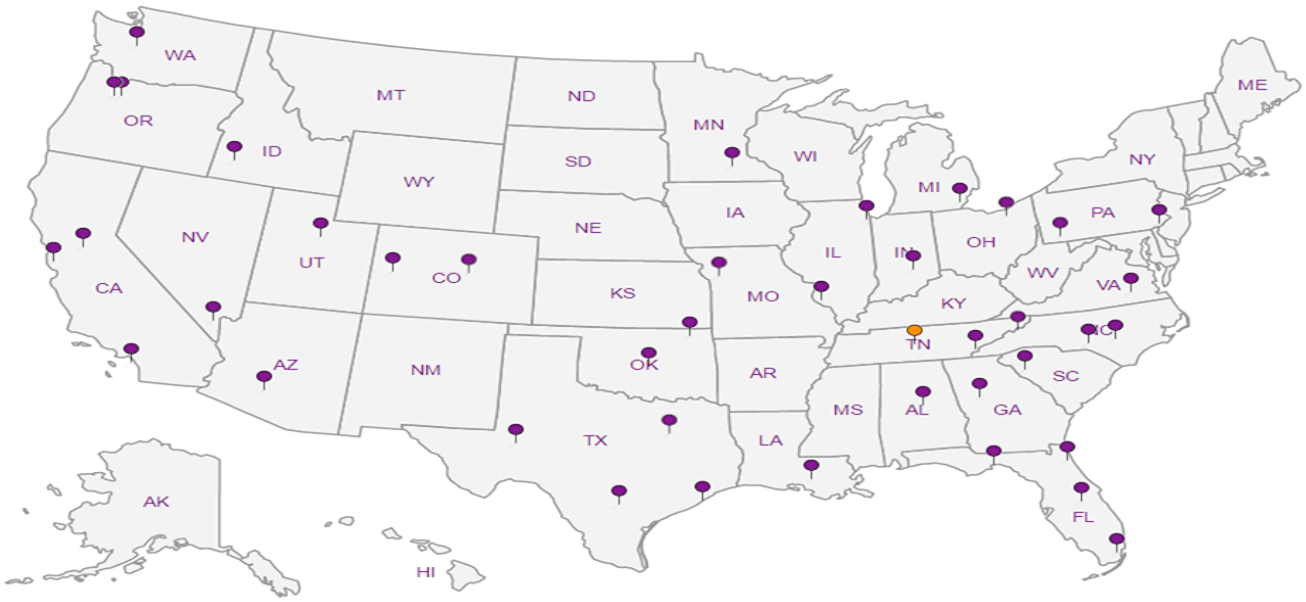
Third Party Federal Accreditations

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.



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;bhaldeman@pesenv.com;

Project Description: American Linen

City/State Collected: Seattle WA

Please Circle: PT MT CT ET

Phone: 206-529-3980

Client Project # 1413.001.05.601

Lab Project # PESENVSWA-ALP

Collected by (print): Karsten Sprinkstead

Site/Facility ID # 1413.001.05.601

P.O. # 1413.001.05.

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Chain of Custody Page 1 of 1

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 # 126092

Table F176

Acctnum: PESENVSWA

Template: T174146

Prelogin: P797213

PM: 546 - Jared Starkey

PB: 9/10/20 MG

Shipped Via: FedEX Standard

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NO3, Cl, SO4 125mlHDPE-NoPres	ALK 125mlHDPE-NoPres	RSK175LL 40mlAmb-HCl	TOC 250mlHDPE-HCl	Total Fe Mn 250mlHDPE-HNO3	V8260ULLC 40mlAmb-HCl	NWTPH-GX	Pres Chk	Remarks	Sample # (lab only)
PRB-D17-092120	Grab	GW	93	9-21-20	1250	12	X	X	X	X	X	X	X			61
		GW														
		GW														
		GW														
		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 48hr hold time
VOCs by V8260ULLC

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 9186 2497 9616

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: Y __N
Preservation Correct/Checked: Y __N
RAD Screen <0.5 mR/hr: Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
	9-21-20	1405			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
				3.7+2=3.9 AB 12	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK
			Olivia Turner	9/23/20 900	

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

November 13, 2020

PES Environmental, Inc.- WA

Sample Delivery Group:	L1281756
Samples Received:	11/04/2020
Project Number:	1413.001.02.501E
Description:	American Linen
Site:	ALS
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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MW-315-110220 L1281756-01 GW

Collected by: SPK | Collected date/time: 11/02/20 10:05 | Received date/time: 11/04/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1571846	1	11/06/20 04:09	11/06/20 04:09	DWR	Mt. Juliet, TN

MW103-110220 L1281756-02 GW

Collected by: SPK | Collected date/time: 11/02/20 10:57 | Received date/time: 11/04/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1572754	1	11/10/20 01:19	11/10/20 01:19	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1574696	1	11/11/20 19:39	11/11/20 19:39	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1573382	20	11/10/20 05:17	11/11/20 12:13	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1573445	1	11/10/20 16:29	11/10/20 16:29	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1571846	1	11/06/20 04:28	11/06/20 04:28	DWR	Mt. Juliet, TN

MW-316-110220 L1281756-03 GW

Collected by: SPK | Collected date/time: 11/02/20 11:25 | Received date/time: 11/04/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1571846	1	11/06/20 04:47	11/06/20 04:47	DWR	Mt. Juliet, TN

MW111-110220 L1281756-04 GW

Collected by: SPK | Collected date/time: 11/02/20 12:50 | Received date/time: 11/04/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1572754	1	11/10/20 02:27	11/10/20 02:27	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1574696	1	11/11/20 19:50	11/11/20 19:50	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1573382	10	11/10/20 05:17	11/11/20 12:17	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1573445	1	11/10/20 16:34	11/10/20 16:34	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1571846	1	11/06/20 05:06	11/06/20 05:06	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1574660	5	11/12/20 11:24	11/12/20 11:24	ADM	Mt. Juliet, TN

MW-325-110220 L1281756-05 GW

Collected by: SPK | Collected date/time: 11/02/20 13:00 | Received date/time: 11/04/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1571846	1	11/06/20 05:25	11/06/20 05:25	DWR	Mt. Juliet, TN

MW-326-110220 L1281756-06 GW

Collected by: SPK | Collected date/time: 11/02/20 14:00 | Received date/time: 11/04/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1571846	1	11/06/20 05:44	11/06/20 05:44	DWR	Mt. Juliet, TN

MW109-110220 L1281756-07 GW

Collected by: SPK | Collected date/time: 11/02/20 15:00 | Received date/time: 11/04/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1572754	1	11/10/20 03:01	11/10/20 03:01	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1574696	1	11/11/20 20:04	11/11/20 20:04	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1573382	20	11/10/20 05:17	11/11/20 12:20	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1573445	1	11/10/20 16:36	11/10/20 16:36	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1571846	1	11/06/20 06:03	11/06/20 06:03	DWR	Mt. Juliet, TN

MW-335-110220 L1281756-08 GW

Collected by	Collected date/time	Received date/time
SPK	11/02/20 15:40	11/04/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1571846	10	11/06/20 08:36	11/06/20 08:36	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1574660	50	11/12/20 11:44	11/12/20 11:44	ADM	Mt. Juliet, TN

FMW-141-110220 L1281756-09 GW

Collected by	Collected date/time	Received date/time
SPK	11/02/20 16:28	11/04/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1571846	1	11/06/20 06:22	11/06/20 06:22	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1574660	10	11/12/20 12:04	11/12/20 12:04	ADM	Mt. Juliet, TN

MW-336-110220 L1281756-10 GW

Collected by	Collected date/time	Received date/time
SPK	11/02/20 16:40	11/04/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1571846	1	11/06/20 06:41	11/06/20 06:41	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1574660	5	11/12/20 12:25	11/12/20 12:25	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

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.05	J0	0.548	1.00	1	11/06/2020 04:09	WG1571846
Acrylonitrile	U		0.0760	0.500	1	11/06/2020 04:09	WG1571846
Benzene	U		0.0160	0.0400	1	11/06/2020 04:09	WG1571846
Bromobenzene	U		0.0420	0.500	1	11/06/2020 04:09	WG1571846
Bromodichloromethane	U		0.0315	0.100	1	11/06/2020 04:09	WG1571846
Bromoform	U		0.239	1.00	1	11/06/2020 04:09	WG1571846
Bromomethane	U		0.148	0.500	1	11/06/2020 04:09	WG1571846
n-Butylbenzene	U		0.153	0.500	1	11/06/2020 04:09	WG1571846
sec-Butylbenzene	U		0.101	0.500	1	11/06/2020 04:09	WG1571846
tert-Butylbenzene	U		0.0620	0.200	1	11/06/2020 04:09	WG1571846
Carbon tetrachloride	U		0.0432	0.200	1	11/06/2020 04:09	WG1571846
Chlorobenzene	U		0.0229	0.100	1	11/06/2020 04:09	WG1571846
Chlorodibromomethane	U		0.0180	0.100	1	11/06/2020 04:09	WG1571846
Chloroethane	U		0.0432	0.200	1	11/06/2020 04:09	WG1571846
Chloroform	U		0.0166	0.100	1	11/06/2020 04:09	WG1571846
Chloromethane	U		0.0556	0.500	1	11/06/2020 04:09	WG1571846
2-Chlorotoluene	U		0.0368	0.100	1	11/06/2020 04:09	WG1571846
4-Chlorotoluene	U		0.0452	0.200	1	11/06/2020 04:09	WG1571846
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/06/2020 04:09	WG1571846
1,2-Dibromoethane	U		0.0210	0.100	1	11/06/2020 04:09	WG1571846
Dibromomethane	U		0.0400	0.200	1	11/06/2020 04:09	WG1571846
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/06/2020 04:09	WG1571846
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/06/2020 04:09	WG1571846
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/06/2020 04:09	WG1571846
Dichlorodifluoromethane	U	J3	0.0327	0.100	1	11/06/2020 04:09	WG1571846
1,1-Dichloroethane	U		0.0230	0.100	1	11/06/2020 04:09	WG1571846
1,2-Dichloroethane	U		0.0190	0.100	1	11/06/2020 04:09	WG1571846
1,1-Dichloroethene	U		0.0200	0.100	1	11/06/2020 04:09	WG1571846
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/06/2020 04:09	WG1571846
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/06/2020 04:09	WG1571846
1,2-Dichloropropane	U		0.0508	0.200	1	11/06/2020 04:09	WG1571846
1,1-Dichloropropene	U		0.0280	0.100	1	11/06/2020 04:09	WG1571846
1,3-Dichloropropane	U		0.0700	0.200	1	11/06/2020 04:09	WG1571846
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/06/2020 04:09	WG1571846
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/06/2020 04:09	WG1571846
2,2-Dichloropropane	U		0.0317	0.100	1	11/06/2020 04:09	WG1571846
Di-isopropyl ether	U		0.0140	0.0400	1	11/06/2020 04:09	WG1571846
Ethylbenzene	0.0460	J	0.0212	0.100	1	11/06/2020 04:09	WG1571846
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/06/2020 04:09	WG1571846
Isopropylbenzene	U		0.0345	0.100	1	11/06/2020 04:09	WG1571846
p-Isopropyltoluene	U		0.0932	0.200	1	11/06/2020 04:09	WG1571846
2-Butanone (MEK)	U		0.500	1.00	1	11/06/2020 04:09	WG1571846
Methylene Chloride	U		0.265	1.00	1	11/06/2020 04:09	WG1571846
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/06/2020 04:09	WG1571846
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/06/2020 04:09	WG1571846
Naphthalene	U		0.124	0.500	1	11/06/2020 04:09	WG1571846
n-Propylbenzene	U		0.0472	0.200	1	11/06/2020 04:09	WG1571846
Styrene	U		0.109	0.500	1	11/06/2020 04:09	WG1571846
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/06/2020 04:09	WG1571846
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/06/2020 04:09	WG1571846
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/06/2020 04:09	WG1571846
Tetrachloroethene	U		0.0280	0.100	1	11/06/2020 04:09	WG1571846
Toluene	0.162	J	0.0500	0.200	1	11/06/2020 04:09	WG1571846
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/06/2020 04:09	WG1571846
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/06/2020 04:09	WG1571846
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/06/2020 04:09	WG1571846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/06/2020 04:09	WG1571846
Trichloroethene	U		0.0160	0.0400	1	11/06/2020 04:09	WG1571846
Trichlorofluoromethane	U		0.0200	0.100	1	11/06/2020 04:09	WG1571846
1,2,3-Trichloropropane	U		0.204	0.500	1	11/06/2020 04:09	WG1571846
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/06/2020 04:09	WG1571846
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/06/2020 04:09	WG1571846
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/06/2020 04:09	WG1571846
Vinyl chloride	U		0.0273	0.100	1	11/06/2020 04:09	WG1571846
Xylenes, Total	0.198	J	0.191	0.260	1	11/06/2020 04:09	WG1571846
Ethyl Ether	U		0.0170	0.100	1	11/06/2020 04:09	WG1571846
Tetrahydrofuran	U	J3	0.0900	0.500	1	11/06/2020 04:09	WG1571846
Iodomethane	U		0.242	0.500	1	11/06/2020 04:09	WG1571846
Allyl chloride	U		0.580	1.00	1	11/06/2020 04:09	WG1571846
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/06/2020 04:09	WG1571846
(S) Toluene-d8	*112*			*75.0-131*		*11/06/2020 04:09*	WG1571846
(S) 4-Bromofluorobenzene	*98.8*			*67.0-138*		*11/06/2020 04:09*	WG1571846
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*11/06/2020 04:09*	WG1571846

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	5770		594	5000	1	11/10/2020 01:19	WG1572754

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)	1590	B	102	1000	1	11/11/2020 19:39	WG1574696

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	24600		562	2000	20	11/11/2020 12:13	WG1573382
Manganese	888		14.1	100	20	11/11/2020 12:13	WG1573382

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	164		2.91	10.0	1	11/10/2020 16:29	WG1573445
Ethane	U		4.07	13.0	1	11/10/2020 16:29	WG1573445
Ethene	U		4.26	13.0	1	11/10/2020 16:29	WG1573445

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/06/2020 04:28	WG1571846
Acrylonitrile	U		0.0760	0.500	1	11/06/2020 04:28	WG1571846
Benzene	0.0270	J	0.0160	0.0400	1	11/06/2020 04:28	WG1571846
Bromobenzene	U		0.0420	0.500	1	11/06/2020 04:28	WG1571846
Bromodichloromethane	U		0.0315	0.100	1	11/06/2020 04:28	WG1571846
Bromoform	U		0.239	1.00	1	11/06/2020 04:28	WG1571846
Bromomethane	U		0.148	0.500	1	11/06/2020 04:28	WG1571846
n-Butylbenzene	U		0.153	0.500	1	11/06/2020 04:28	WG1571846
sec-Butylbenzene	U		0.101	0.500	1	11/06/2020 04:28	WG1571846
tert-Butylbenzene	U		0.0620	0.200	1	11/06/2020 04:28	WG1571846
Carbon tetrachloride	U		0.0432	0.200	1	11/06/2020 04:28	WG1571846
Chlorobenzene	U		0.0229	0.100	1	11/06/2020 04:28	WG1571846
Chlorodibromomethane	U		0.0180	0.100	1	11/06/2020 04:28	WG1571846
Chloroethane	U		0.0432	0.200	1	11/06/2020 04:28	WG1571846
Chloroform	U		0.0166	0.100	1	11/06/2020 04:28	WG1571846
Chloromethane	U		0.0556	0.500	1	11/06/2020 04:28	WG1571846
2-Chlorotoluene	U		0.0368	0.100	1	11/06/2020 04:28	WG1571846
4-Chlorotoluene	U		0.0452	0.200	1	11/06/2020 04:28	WG1571846
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/06/2020 04:28	WG1571846
1,2-Dibromoethane	U		0.0210	0.100	1	11/06/2020 04:28	WG1571846
Dibromomethane	U		0.0400	0.200	1	11/06/2020 04:28	WG1571846
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/06/2020 04:28	WG1571846
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/06/2020 04:28	WG1571846
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/06/2020 04:28	WG1571846
Dichlorodifluoromethane	U	J3	0.0327	0.100	1	11/06/2020 04:28	WG1571846
1,1-Dichloroethane	U		0.0230	0.100	1	11/06/2020 04:28	WG1571846
1,2-Dichloroethane	U		0.0190	0.100	1	11/06/2020 04:28	WG1571846
1,1-Dichloroethene	0.111		0.0200	0.100	1	11/06/2020 04:28	WG1571846
cis-1,2-Dichloroethene	2.75		0.0276	0.100	1	11/06/2020 04:28	WG1571846
trans-1,2-Dichloroethene	0.0590	J	0.0572	0.200	1	11/06/2020 04:28	WG1571846
1,2-Dichloropropane	U		0.0508	0.200	1	11/06/2020 04:28	WG1571846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/06/2020 04:28	WG1571846
1,3-Dichloropropane	U		0.0700	0.200	1	11/06/2020 04:28	WG1571846
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/06/2020 04:28	WG1571846
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/06/2020 04:28	WG1571846
2,2-Dichloropropane	U		0.0317	0.100	1	11/06/2020 04:28	WG1571846
Di-isopropyl ether	U		0.0140	0.0400	1	11/06/2020 04:28	WG1571846
Ethylbenzene	U		0.0212	0.100	1	11/06/2020 04:28	WG1571846
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/06/2020 04:28	WG1571846
Isopropylbenzene	U		0.0345	0.100	1	11/06/2020 04:28	WG1571846
p-Isopropyltoluene	U		0.0932	0.200	1	11/06/2020 04:28	WG1571846
2-Butanone (MEK)	U		0.500	1.00	1	11/06/2020 04:28	WG1571846
Methylene Chloride	U		0.265	1.00	1	11/06/2020 04:28	WG1571846
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/06/2020 04:28	WG1571846
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/06/2020 04:28	WG1571846
Naphthalene	U		0.124	0.500	1	11/06/2020 04:28	WG1571846
n-Propylbenzene	U		0.0472	0.200	1	11/06/2020 04:28	WG1571846
Styrene	U		0.109	0.500	1	11/06/2020 04:28	WG1571846
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/06/2020 04:28	WG1571846
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/06/2020 04:28	WG1571846
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/06/2020 04:28	WG1571846
Tetrachloroethene	U		0.0280	0.100	1	11/06/2020 04:28	WG1571846
Toluene	0.158	J	0.0500	0.200	1	11/06/2020 04:28	WG1571846
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/06/2020 04:28	WG1571846
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/06/2020 04:28	WG1571846
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/06/2020 04:28	WG1571846
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/06/2020 04:28	WG1571846
Trichloroethene	0.0800		0.0160	0.0400	1	11/06/2020 04:28	WG1571846
Trichlorofluoromethane	U		0.0200	0.100	1	11/06/2020 04:28	WG1571846
1,2,3-Trichloropropane	U		0.204	0.500	1	11/06/2020 04:28	WG1571846
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/06/2020 04:28	WG1571846
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/06/2020 04:28	WG1571846
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/06/2020 04:28	WG1571846
Vinyl chloride	2.22		0.0273	0.100	1	11/06/2020 04:28	WG1571846
Xylenes, Total	U		0.191	0.260	1	11/06/2020 04:28	WG1571846
Ethyl Ether	U		0.0170	0.100	1	11/06/2020 04:28	WG1571846
Tetrahydrofuran	U	J3	0.0900	0.500	1	11/06/2020 04:28	WG1571846
Iodomethane	U		0.242	0.500	1	11/06/2020 04:28	WG1571846
Allyl chloride	U		0.580	1.00	1	11/06/2020 04:28	WG1571846
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/06/2020 04:28	WG1571846
(S) Toluene-d8	*109*			*75.0-131*		*11/06/2020 04:28*	WG1571846
(S) 4-Bromofluorobenzene	*96.6*			*67.0-138*		*11/06/2020 04:28*	WG1571846
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*11/06/2020 04:28*	WG1571846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/06/2020 04:47	WG1571846
Acrylonitrile	U		0.0760	0.500	1	11/06/2020 04:47	WG1571846
Benzene	0.0190	J	0.0160	0.0400	1	11/06/2020 04:47	WG1571846
Bromobenzene	U		0.0420	0.500	1	11/06/2020 04:47	WG1571846
Bromodichloromethane	U		0.0315	0.100	1	11/06/2020 04:47	WG1571846
Bromoform	U		0.239	1.00	1	11/06/2020 04:47	WG1571846
Bromomethane	U		0.148	0.500	1	11/06/2020 04:47	WG1571846
n-Butylbenzene	U		0.153	0.500	1	11/06/2020 04:47	WG1571846
sec-Butylbenzene	U		0.101	0.500	1	11/06/2020 04:47	WG1571846
tert-Butylbenzene	U		0.0620	0.200	1	11/06/2020 04:47	WG1571846
Carbon tetrachloride	U		0.0432	0.200	1	11/06/2020 04:47	WG1571846
Chlorobenzene	U		0.0229	0.100	1	11/06/2020 04:47	WG1571846
Chlorodibromomethane	U		0.0180	0.100	1	11/06/2020 04:47	WG1571846
Chloroethane	U		0.0432	0.200	1	11/06/2020 04:47	WG1571846
Chloroform	U		0.0166	0.100	1	11/06/2020 04:47	WG1571846
Chloromethane	U		0.0556	0.500	1	11/06/2020 04:47	WG1571846
2-Chlorotoluene	U		0.0368	0.100	1	11/06/2020 04:47	WG1571846
4-Chlorotoluene	U		0.0452	0.200	1	11/06/2020 04:47	WG1571846
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/06/2020 04:47	WG1571846
1,2-Dibromoethane	U		0.0210	0.100	1	11/06/2020 04:47	WG1571846
Dibromomethane	U		0.0400	0.200	1	11/06/2020 04:47	WG1571846
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/06/2020 04:47	WG1571846
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/06/2020 04:47	WG1571846
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/06/2020 04:47	WG1571846
Dichlorodifluoromethane	U	J3	0.0327	0.100	1	11/06/2020 04:47	WG1571846
1,1-Dichloroethane	U		0.0230	0.100	1	11/06/2020 04:47	WG1571846
1,2-Dichloroethane	U		0.0190	0.100	1	11/06/2020 04:47	WG1571846
1,1-Dichloroethene	U		0.0200	0.100	1	11/06/2020 04:47	WG1571846
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/06/2020 04:47	WG1571846
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/06/2020 04:47	WG1571846
1,2-Dichloropropane	U		0.0508	0.200	1	11/06/2020 04:47	WG1571846
1,1-Dichloropropene	U		0.0280	0.100	1	11/06/2020 04:47	WG1571846
1,3-Dichloropropane	U		0.0700	0.200	1	11/06/2020 04:47	WG1571846
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/06/2020 04:47	WG1571846
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/06/2020 04:47	WG1571846
2,2-Dichloropropane	U		0.0317	0.100	1	11/06/2020 04:47	WG1571846
Di-isopropyl ether	U		0.0140	0.0400	1	11/06/2020 04:47	WG1571846
Ethylbenzene	U		0.0212	0.100	1	11/06/2020 04:47	WG1571846
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/06/2020 04:47	WG1571846
Isopropylbenzene	U		0.0345	0.100	1	11/06/2020 04:47	WG1571846
p-Isopropyltoluene	U		0.0932	0.200	1	11/06/2020 04:47	WG1571846
2-Butanone (MEK)	U		0.500	1.00	1	11/06/2020 04:47	WG1571846
Methylene Chloride	U		0.265	1.00	1	11/06/2020 04:47	WG1571846
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/06/2020 04:47	WG1571846
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/06/2020 04:47	WG1571846
Naphthalene	U		0.124	0.500	1	11/06/2020 04:47	WG1571846
n-Propylbenzene	U		0.0472	0.200	1	11/06/2020 04:47	WG1571846
Styrene	U		0.109	0.500	1	11/06/2020 04:47	WG1571846
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/06/2020 04:47	WG1571846
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/06/2020 04:47	WG1571846
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/06/2020 04:47	WG1571846
Tetrachloroethene	U		0.0280	0.100	1	11/06/2020 04:47	WG1571846
Toluene	0.120	J	0.0500	0.200	1	11/06/2020 04:47	WG1571846
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/06/2020 04:47	WG1571846
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/06/2020 04:47	WG1571846
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/06/2020 04:47	WG1571846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/06/2020 04:47	WG1571846
Trichloroethene	U		0.0160	0.0400	1	11/06/2020 04:47	WG1571846
Trichlorofluoromethane	U		0.0200	0.100	1	11/06/2020 04:47	WG1571846
1,2,3-Trichloropropane	U		0.204	0.500	1	11/06/2020 04:47	WG1571846
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/06/2020 04:47	WG1571846
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/06/2020 04:47	WG1571846
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/06/2020 04:47	WG1571846
Vinyl chloride	U		0.0273	0.100	1	11/06/2020 04:47	WG1571846
Xylenes, Total	U		0.191	0.260	1	11/06/2020 04:47	WG1571846
Ethyl Ether	U		0.0170	0.100	1	11/06/2020 04:47	WG1571846
Tetrahydrofuran	U	J3	0.0900	0.500	1	11/06/2020 04:47	WG1571846
Iodomethane	U		0.242	0.500	1	11/06/2020 04:47	WG1571846
Allyl chloride	U		0.580	1.00	1	11/06/2020 04:47	WG1571846
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/06/2020 04:47	WG1571846
(S) Toluene-d8	*106*			*75.0-131*		*11/06/2020 04:47*	WG1571846
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*11/06/2020 04:47*	WG1571846
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*11/06/2020 04:47*	WG1571846

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	31800		594	5000	1	11/10/2020 02:27	WG1572754

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)	1550	B	102	1000	1	11/11/2020 19:50	WG1574696

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	18800		281	1000	10	11/11/2020 12:17	WG1573382
Manganese	653		7.04	50.0	10	11/11/2020 12:17	WG1573382

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	484		2.91	10.0	1	11/10/2020 16:34	WG1573445
Ethane	47.8		4.07	13.0	1	11/10/2020 16:34	WG1573445
Ethene	23.8		4.26	13.0	1	11/10/2020 16:34	WG1573445

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/06/2020 05:06	WG1571846
Acrylonitrile	U		0.0760	0.500	1	11/06/2020 05:06	WG1571846
Benzene	0.0230	J	0.0160	0.0400	1	11/06/2020 05:06	WG1571846
Bromobenzene	U		0.0420	0.500	1	11/06/2020 05:06	WG1571846
Bromodichloromethane	U		0.0315	0.100	1	11/06/2020 05:06	WG1571846
Bromoform	U		0.239	1.00	1	11/06/2020 05:06	WG1571846
Bromomethane	U		0.148	0.500	1	11/06/2020 05:06	WG1571846
n-Butylbenzene	U		0.153	0.500	1	11/06/2020 05:06	WG1571846
sec-Butylbenzene	U		0.101	0.500	1	11/06/2020 05:06	WG1571846
tert-Butylbenzene	U		0.0620	0.200	1	11/06/2020 05:06	WG1571846
Carbon tetrachloride	U		0.0432	0.200	1	11/06/2020 05:06	WG1571846
Chlorobenzene	U		0.0229	0.100	1	11/06/2020 05:06	WG1571846
Chlorodibromomethane	U		0.0180	0.100	1	11/06/2020 05:06	WG1571846
Chloroethane	U		0.0432	0.200	1	11/06/2020 05:06	WG1571846
Chloroform	U		0.0166	0.100	1	11/06/2020 05:06	WG1571846
Chloromethane	U		0.0556	0.500	1	11/06/2020 05:06	WG1571846
2-Chlorotoluene	U		0.0368	0.100	1	11/06/2020 05:06	WG1571846
4-Chlorotoluene	U		0.0452	0.200	1	11/06/2020 05:06	WG1571846
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/06/2020 05:06	WG1571846
1,2-Dibromoethane	U		0.0210	0.100	1	11/06/2020 05:06	WG1571846
Dibromomethane	U		0.0400	0.200	1	11/06/2020 05:06	WG1571846
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/06/2020 05:06	WG1571846
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/06/2020 05:06	WG1571846
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/06/2020 05:06	WG1571846
Dichlorodifluoromethane	U	J3	0.0327	0.100	1	11/06/2020 05:06	WG1571846
1,1-Dichloroethane	U		0.0230	0.100	1	11/06/2020 05:06	WG1571846
1,2-Dichloroethane	U		0.0190	0.100	1	11/06/2020 05:06	WG1571846
1,1-Dichloroethene	0.358		0.0200	0.100	1	11/06/2020 05:06	WG1571846
cis-1,2-Dichloroethene	56.2		0.0276	0.100	1	11/06/2020 05:06	WG1571846
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/06/2020 05:06	WG1571846
1,2-Dichloropropane	U		0.0508	0.200	1	11/06/2020 05:06	WG1571846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/06/2020 05:06	WG1571846
1,3-Dichloropropane	U		0.0700	0.200	1	11/06/2020 05:06	WG1571846
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/06/2020 05:06	WG1571846
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/06/2020 05:06	WG1571846
2,2-Dichloropropane	U		0.0317	0.100	1	11/06/2020 05:06	WG1571846
Di-isopropyl ether	U		0.0140	0.0400	1	11/06/2020 05:06	WG1571846
Ethylbenzene	U		0.0212	0.100	1	11/06/2020 05:06	WG1571846
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/06/2020 05:06	WG1571846
Isopropylbenzene	U		0.0345	0.100	1	11/06/2020 05:06	WG1571846
p-Isopropyltoluene	U		0.0932	0.200	1	11/06/2020 05:06	WG1571846
2-Butanone (MEK)	U		0.500	1.00	1	11/06/2020 05:06	WG1571846
Methylene Chloride	U		0.265	1.00	1	11/06/2020 05:06	WG1571846
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/06/2020 05:06	WG1571846
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/06/2020 05:06	WG1571846
Naphthalene	U		0.124	0.500	1	11/06/2020 05:06	WG1571846
n-Propylbenzene	U		0.0472	0.200	1	11/06/2020 05:06	WG1571846
Styrene	U		0.109	0.500	1	11/06/2020 05:06	WG1571846
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/06/2020 05:06	WG1571846
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/06/2020 05:06	WG1571846
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/06/2020 05:06	WG1571846
Tetrachloroethene	U		0.0280	0.100	1	11/06/2020 05:06	WG1571846
Toluene	0.225		0.0500	0.200	1	11/06/2020 05:06	WG1571846
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/06/2020 05:06	WG1571846
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/06/2020 05:06	WG1571846
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/06/2020 05:06	WG1571846
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/06/2020 05:06	WG1571846
Trichloroethene	0.161		0.0160	0.0400	1	11/06/2020 05:06	WG1571846
Trichlorofluoromethane	U		0.0200	0.100	1	11/06/2020 05:06	WG1571846
1,2,3-Trichloropropane	U		0.204	0.500	1	11/06/2020 05:06	WG1571846
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/06/2020 05:06	WG1571846
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/06/2020 05:06	WG1571846
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/06/2020 05:06	WG1571846
Vinyl chloride	118		0.137	0.500	5	11/12/2020 11:24	WG1574660
Xylenes, Total	U		0.191	0.260	1	11/06/2020 05:06	WG1571846
Ethyl Ether	0.103		0.0170	0.100	1	11/06/2020 05:06	WG1571846
Tetrahydrofuran	U	J3	0.0900	0.500	1	11/06/2020 05:06	WG1571846
Iodomethane	U		0.242	0.500	1	11/06/2020 05:06	WG1571846
Allyl chloride	U		0.580	1.00	1	11/06/2020 05:06	WG1571846
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/06/2020 05:06	WG1571846
(S) Toluene-d8	*107*			*75.0-131*		*11/06/2020 05:06*	WG1571846
(S) Toluene-d8	*105*			*75.0-131*		*11/12/2020 11:24*	WG1574660
(S) 4-Bromofluorobenzene	*99.3*			*67.0-138*		*11/06/2020 05:06*	WG1571846
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*11/12/2020 11:24*	WG1574660
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*11/06/2020 05:06*	WG1571846
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*11/12/2020 11:24*	WG1574660

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/06/2020 05:25	WG1571846
Acrylonitrile	U		0.0760	0.500	1	11/06/2020 05:25	WG1571846
Benzene	U		0.0160	0.0400	1	11/06/2020 05:25	WG1571846
Bromobenzene	U		0.0420	0.500	1	11/06/2020 05:25	WG1571846
Bromodichloromethane	U		0.0315	0.100	1	11/06/2020 05:25	WG1571846
Bromoform	U		0.239	1.00	1	11/06/2020 05:25	WG1571846
Bromomethane	U		0.148	0.500	1	11/06/2020 05:25	WG1571846
n-Butylbenzene	U		0.153	0.500	1	11/06/2020 05:25	WG1571846
sec-Butylbenzene	U		0.101	0.500	1	11/06/2020 05:25	WG1571846
tert-Butylbenzene	U		0.0620	0.200	1	11/06/2020 05:25	WG1571846
Carbon tetrachloride	U		0.0432	0.200	1	11/06/2020 05:25	WG1571846
Chlorobenzene	U		0.0229	0.100	1	11/06/2020 05:25	WG1571846
Chlorodibromomethane	U		0.0180	0.100	1	11/06/2020 05:25	WG1571846
Chloroethane	U		0.0432	0.200	1	11/06/2020 05:25	WG1571846
Chloroform	U		0.0166	0.100	1	11/06/2020 05:25	WG1571846
Chloromethane	U		0.0556	0.500	1	11/06/2020 05:25	WG1571846
2-Chlorotoluene	U		0.0368	0.100	1	11/06/2020 05:25	WG1571846
4-Chlorotoluene	U		0.0452	0.200	1	11/06/2020 05:25	WG1571846
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/06/2020 05:25	WG1571846
1,2-Dibromoethane	U		0.0210	0.100	1	11/06/2020 05:25	WG1571846
Dibromomethane	U		0.0400	0.200	1	11/06/2020 05:25	WG1571846
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/06/2020 05:25	WG1571846
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/06/2020 05:25	WG1571846
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/06/2020 05:25	WG1571846
Dichlorodifluoromethane	U	J3	0.0327	0.100	1	11/06/2020 05:25	WG1571846
1,1-Dichloroethane	U		0.0230	0.100	1	11/06/2020 05:25	WG1571846
1,2-Dichloroethane	U		0.0190	0.100	1	11/06/2020 05:25	WG1571846
1,1-Dichloroethene	U		0.0200	0.100	1	11/06/2020 05:25	WG1571846
cis-1,2-Dichloroethene	0.802		0.0276	0.100	1	11/06/2020 05:25	WG1571846
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/06/2020 05:25	WG1571846
1,2-Dichloropropane	U		0.0508	0.200	1	11/06/2020 05:25	WG1571846
1,1-Dichloropropene	U		0.0280	0.100	1	11/06/2020 05:25	WG1571846
1,3-Dichloropropane	U		0.0700	0.200	1	11/06/2020 05:25	WG1571846
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/06/2020 05:25	WG1571846
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/06/2020 05:25	WG1571846
2,2-Dichloropropane	U		0.0317	0.100	1	11/06/2020 05:25	WG1571846
Di-isopropyl ether	U		0.0140	0.0400	1	11/06/2020 05:25	WG1571846
Ethylbenzene	U		0.0212	0.100	1	11/06/2020 05:25	WG1571846
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/06/2020 05:25	WG1571846
Isopropylbenzene	U		0.0345	0.100	1	11/06/2020 05:25	WG1571846
p-Isopropyltoluene	U		0.0932	0.200	1	11/06/2020 05:25	WG1571846
2-Butanone (MEK)	U		0.500	1.00	1	11/06/2020 05:25	WG1571846
Methylene Chloride	U		0.265	1.00	1	11/06/2020 05:25	WG1571846
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/06/2020 05:25	WG1571846
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/06/2020 05:25	WG1571846
Naphthalene	U		0.124	0.500	1	11/06/2020 05:25	WG1571846
n-Propylbenzene	U		0.0472	0.200	1	11/06/2020 05:25	WG1571846
Styrene	U		0.109	0.500	1	11/06/2020 05:25	WG1571846
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/06/2020 05:25	WG1571846
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/06/2020 05:25	WG1571846
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/06/2020 05:25	WG1571846
Tetrachloroethene	U		0.0280	0.100	1	11/06/2020 05:25	WG1571846
Toluene	U		0.0500	0.200	1	11/06/2020 05:25	WG1571846
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/06/2020 05:25	WG1571846
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/06/2020 05:25	WG1571846
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/06/2020 05:25	WG1571846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/06/2020 05:25	WG1571846
Trichloroethene	U		0.0160	0.0400	1	11/06/2020 05:25	WG1571846
Trichlorofluoromethane	U		0.0200	0.100	1	11/06/2020 05:25	WG1571846
1,2,3-Trichloropropane	U		0.204	0.500	1	11/06/2020 05:25	WG1571846
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/06/2020 05:25	WG1571846
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/06/2020 05:25	WG1571846
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/06/2020 05:25	WG1571846
Vinyl chloride	U		0.0273	0.100	1	11/06/2020 05:25	WG1571846
Xylenes, Total	U		0.191	0.260	1	11/06/2020 05:25	WG1571846
Ethyl Ether	U		0.0170	0.100	1	11/06/2020 05:25	WG1571846
Tetrahydrofuran	U	J3	0.0900	0.500	1	11/06/2020 05:25	WG1571846
Iodomethane	U		0.242	0.500	1	11/06/2020 05:25	WG1571846
Allyl chloride	U		0.580	1.00	1	11/06/2020 05:25	WG1571846
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/06/2020 05:25	WG1571846
(S) Toluene-d8	*109*			*75.0-131*		*11/06/2020 05:25*	WG1571846
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/06/2020 05:25*	WG1571846
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*11/06/2020 05:25*	WG1571846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/06/2020 05:44	WG1571846
Acrylonitrile	U		0.0760	0.500	1	11/06/2020 05:44	WG1571846
Benzene	0.0740		0.0160	0.0400	1	11/06/2020 05:44	WG1571846
Bromobenzene	U		0.0420	0.500	1	11/06/2020 05:44	WG1571846
Bromodichloromethane	U		0.0315	0.100	1	11/06/2020 05:44	WG1571846
Bromoform	U		0.239	1.00	1	11/06/2020 05:44	WG1571846
Bromomethane	U		0.148	0.500	1	11/06/2020 05:44	WG1571846
n-Butylbenzene	U		0.153	0.500	1	11/06/2020 05:44	WG1571846
sec-Butylbenzene	U		0.101	0.500	1	11/06/2020 05:44	WG1571846
tert-Butylbenzene	U		0.0620	0.200	1	11/06/2020 05:44	WG1571846
Carbon tetrachloride	U		0.0432	0.200	1	11/06/2020 05:44	WG1571846
Chlorobenzene	U		0.0229	0.100	1	11/06/2020 05:44	WG1571846
Chlorodibromomethane	U		0.0180	0.100	1	11/06/2020 05:44	WG1571846
Chloroethane	U		0.0432	0.200	1	11/06/2020 05:44	WG1571846
Chloroform	U		0.0166	0.100	1	11/06/2020 05:44	WG1571846
Chloromethane	U		0.0556	0.500	1	11/06/2020 05:44	WG1571846
2-Chlorotoluene	U		0.0368	0.100	1	11/06/2020 05:44	WG1571846
4-Chlorotoluene	U		0.0452	0.200	1	11/06/2020 05:44	WG1571846
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/06/2020 05:44	WG1571846
1,2-Dibromoethane	U		0.0210	0.100	1	11/06/2020 05:44	WG1571846
Dibromomethane	U		0.0400	0.200	1	11/06/2020 05:44	WG1571846
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/06/2020 05:44	WG1571846
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/06/2020 05:44	WG1571846
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/06/2020 05:44	WG1571846
Dichlorodifluoromethane	U	J3	0.0327	0.100	1	11/06/2020 05:44	WG1571846
1,1-Dichloroethane	U		0.0230	0.100	1	11/06/2020 05:44	WG1571846
1,2-Dichloroethane	U		0.0190	0.100	1	11/06/2020 05:44	WG1571846
1,1-Dichloroethene	U		0.0200	0.100	1	11/06/2020 05:44	WG1571846
cis-1,2-Dichloroethene	0.224		0.0276	0.100	1	11/06/2020 05:44	WG1571846
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/06/2020 05:44	WG1571846
1,2-Dichloropropane	U		0.0508	0.200	1	11/06/2020 05:44	WG1571846
1,1-Dichloropropene	U		0.0280	0.100	1	11/06/2020 05:44	WG1571846
1,3-Dichloropropane	U		0.0700	0.200	1	11/06/2020 05:44	WG1571846
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/06/2020 05:44	WG1571846
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/06/2020 05:44	WG1571846
2,2-Dichloropropane	U		0.0317	0.100	1	11/06/2020 05:44	WG1571846
Di-isopropyl ether	U		0.0140	0.0400	1	11/06/2020 05:44	WG1571846
Ethylbenzene	U		0.0212	0.100	1	11/06/2020 05:44	WG1571846
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/06/2020 05:44	WG1571846
Isopropylbenzene	U		0.0345	0.100	1	11/06/2020 05:44	WG1571846
p-Isopropyltoluene	U		0.0932	0.200	1	11/06/2020 05:44	WG1571846
2-Butanone (MEK)	U		0.500	1.00	1	11/06/2020 05:44	WG1571846
Methylene Chloride	U		0.265	1.00	1	11/06/2020 05:44	WG1571846
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/06/2020 05:44	WG1571846
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/06/2020 05:44	WG1571846
Naphthalene	U		0.124	0.500	1	11/06/2020 05:44	WG1571846
n-Propylbenzene	U		0.0472	0.200	1	11/06/2020 05:44	WG1571846
Styrene	U		0.109	0.500	1	11/06/2020 05:44	WG1571846
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/06/2020 05:44	WG1571846
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/06/2020 05:44	WG1571846
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/06/2020 05:44	WG1571846
Tetrachloroethene	U		0.0280	0.100	1	11/06/2020 05:44	WG1571846
Toluene	0.165	J	0.0500	0.200	1	11/06/2020 05:44	WG1571846
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/06/2020 05:44	WG1571846
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/06/2020 05:44	WG1571846
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/06/2020 05:44	WG1571846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/06/2020 05:44	WG1571846
Trichloroethene	0.0260	J	0.0160	0.0400	1	11/06/2020 05:44	WG1571846
Trichlorofluoromethane	U		0.0200	0.100	1	11/06/2020 05:44	WG1571846
1,2,3-Trichloropropane	U		0.204	0.500	1	11/06/2020 05:44	WG1571846
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/06/2020 05:44	WG1571846
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/06/2020 05:44	WG1571846
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/06/2020 05:44	WG1571846
Vinyl chloride	0.332		0.0273	0.100	1	11/06/2020 05:44	WG1571846
Xylenes, Total	U		0.191	0.260	1	11/06/2020 05:44	WG1571846
Ethyl Ether	U		0.0170	0.100	1	11/06/2020 05:44	WG1571846
Tetrahydrofuran	U	J3	0.0900	0.500	1	11/06/2020 05:44	WG1571846
Iodomethane	U		0.242	0.500	1	11/06/2020 05:44	WG1571846
Allyl chloride	U		0.580	1.00	1	11/06/2020 05:44	WG1571846
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/06/2020 05:44	WG1571846
(S) Toluene-d8	*108*			*75.0-131*		*11/06/2020 05:44*	WG1571846
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/06/2020 05:44*	WG1571846
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/06/2020 05:44*	WG1571846

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	8890		594	5000	1	11/10/2020 03:01	WG1572754

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)	8690		102	1000	1	11/11/2020 20:04	WG1574696

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	14600		562	2000	20	11/11/2020 12:20	WG1573382
Manganese	3940		14.1	100	20	11/11/2020 12:20	WG1573382

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	2620		2.91	10.0	1	11/10/2020 16:36	WG1573445
Ethane	31.5		4.07	13.0	1	11/10/2020 16:36	WG1573445
Ethene	U		4.26	13.0	1	11/10/2020 16:36	WG1573445

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/06/2020 06:03	WG1571846
Acrylonitrile	U		0.0760	0.500	1	11/06/2020 06:03	WG1571846
Benzene	0.0550		0.0160	0.0400	1	11/06/2020 06:03	WG1571846
Bromobenzene	U		0.0420	0.500	1	11/06/2020 06:03	WG1571846
Bromodichloromethane	U		0.0315	0.100	1	11/06/2020 06:03	WG1571846
Bromoform	U		0.239	1.00	1	11/06/2020 06:03	WG1571846
Bromomethane	U		0.148	0.500	1	11/06/2020 06:03	WG1571846
n-Butylbenzene	U		0.153	0.500	1	11/06/2020 06:03	WG1571846
sec-Butylbenzene	U		0.101	0.500	1	11/06/2020 06:03	WG1571846
tert-Butylbenzene	U		0.0620	0.200	1	11/06/2020 06:03	WG1571846
Carbon tetrachloride	U		0.0432	0.200	1	11/06/2020 06:03	WG1571846
Chlorobenzene	U		0.0229	0.100	1	11/06/2020 06:03	WG1571846
Chlorodibromomethane	U		0.0180	0.100	1	11/06/2020 06:03	WG1571846
Chloroethane	U		0.0432	0.200	1	11/06/2020 06:03	WG1571846
Chloroform	U		0.0166	0.100	1	11/06/2020 06:03	WG1571846
Chloromethane	U		0.0556	0.500	1	11/06/2020 06:03	WG1571846
2-Chlorotoluene	U		0.0368	0.100	1	11/06/2020 06:03	WG1571846
4-Chlorotoluene	U		0.0452	0.200	1	11/06/2020 06:03	WG1571846
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/06/2020 06:03	WG1571846
1,2-Dibromoethane	U		0.0210	0.100	1	11/06/2020 06:03	WG1571846
Dibromomethane	U		0.0400	0.200	1	11/06/2020 06:03	WG1571846
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/06/2020 06:03	WG1571846
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/06/2020 06:03	WG1571846
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/06/2020 06:03	WG1571846
Dichlorodifluoromethane	U	J3	0.0327	0.100	1	11/06/2020 06:03	WG1571846
1,1-Dichloroethane	U		0.0230	0.100	1	11/06/2020 06:03	WG1571846
1,2-Dichloroethane	U		0.0190	0.100	1	11/06/2020 06:03	WG1571846
1,1-Dichloroethene	0.0900	J	0.0200	0.100	1	11/06/2020 06:03	WG1571846
cis-1,2-Dichloroethene	32.1		0.0276	0.100	1	11/06/2020 06:03	WG1571846
trans-1,2-Dichloroethene	0.220		0.0572	0.200	1	11/06/2020 06:03	WG1571846
1,2-Dichloropropane	U		0.0508	0.200	1	11/06/2020 06:03	WG1571846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/06/2020 06:03	WG1571846
1,3-Dichloropropane	U		0.0700	0.200	1	11/06/2020 06:03	WG1571846
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/06/2020 06:03	WG1571846
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/06/2020 06:03	WG1571846
2,2-Dichloropropane	U		0.0317	0.100	1	11/06/2020 06:03	WG1571846
Di-isopropyl ether	U		0.0140	0.0400	1	11/06/2020 06:03	WG1571846
Ethylbenzene	U		0.0212	0.100	1	11/06/2020 06:03	WG1571846
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/06/2020 06:03	WG1571846
Isopropylbenzene	U		0.0345	0.100	1	11/06/2020 06:03	WG1571846
p-Isopropyltoluene	U		0.0932	0.200	1	11/06/2020 06:03	WG1571846
2-Butanone (MEK)	U		0.500	1.00	1	11/06/2020 06:03	WG1571846
Methylene Chloride	U		0.265	1.00	1	11/06/2020 06:03	WG1571846
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/06/2020 06:03	WG1571846
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/06/2020 06:03	WG1571846
Naphthalene	U		0.124	0.500	1	11/06/2020 06:03	WG1571846
n-Propylbenzene	U		0.0472	0.200	1	11/06/2020 06:03	WG1571846
Styrene	U		0.109	0.500	1	11/06/2020 06:03	WG1571846
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/06/2020 06:03	WG1571846
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/06/2020 06:03	WG1571846
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/06/2020 06:03	WG1571846
Tetrachloroethene	U		0.0280	0.100	1	11/06/2020 06:03	WG1571846
Toluene	0.105	J	0.0500	0.200	1	11/06/2020 06:03	WG1571846
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/06/2020 06:03	WG1571846
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/06/2020 06:03	WG1571846
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/06/2020 06:03	WG1571846
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/06/2020 06:03	WG1571846
Trichloroethene	0.126		0.0160	0.0400	1	11/06/2020 06:03	WG1571846
Trichlorofluoromethane	U		0.0200	0.100	1	11/06/2020 06:03	WG1571846
1,2,3-Trichloropropane	U		0.204	0.500	1	11/06/2020 06:03	WG1571846
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/06/2020 06:03	WG1571846
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/06/2020 06:03	WG1571846
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/06/2020 06:03	WG1571846
Vinyl chloride	14.5		0.0273	0.100	1	11/06/2020 06:03	WG1571846
Xylenes, Total	U		0.191	0.260	1	11/06/2020 06:03	WG1571846
Ethyl Ether	0.391		0.0170	0.100	1	11/06/2020 06:03	WG1571846
Tetrahydrofuran	U	J3	0.0900	0.500	1	11/06/2020 06:03	WG1571846
Iodomethane	U		0.242	0.500	1	11/06/2020 06:03	WG1571846
Allyl chloride	U		0.580	1.00	1	11/06/2020 06:03	WG1571846
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/06/2020 06:03	WG1571846
(S) Toluene-d8	*107*			*75.0-131*		*11/06/2020 06:03*	WG1571846
(S) 4-Bromofluorobenzene	*99.8*			*67.0-138*		*11/06/2020 06:03*	WG1571846
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/06/2020 06:03*	WG1571846

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		5.48	10.0	10	11/06/2020 08:36	WG1571846
Acrylonitrile	U		0.760	5.00	10	11/06/2020 08:36	WG1571846
Benzene	0.380	J	0.160	0.400	10	11/06/2020 08:36	WG1571846
Bromobenzene	U		0.420	5.00	10	11/06/2020 08:36	WG1571846
Bromodichloromethane	U		0.315	1.00	10	11/06/2020 08:36	WG1571846
Bromoform	U		2.39	10.0	10	11/06/2020 08:36	WG1571846
Bromomethane	U		1.48	5.00	10	11/06/2020 08:36	WG1571846
n-Butylbenzene	U		1.53	5.00	10	11/06/2020 08:36	WG1571846
sec-Butylbenzene	U		1.01	5.00	10	11/06/2020 08:36	WG1571846
tert-Butylbenzene	U		0.620	2.00	10	11/06/2020 08:36	WG1571846
Carbon tetrachloride	U		0.432	2.00	10	11/06/2020 08:36	WG1571846
Chlorobenzene	U		0.229	1.00	10	11/06/2020 08:36	WG1571846
Chlorodibromomethane	U		0.180	1.00	10	11/06/2020 08:36	WG1571846
Chloroethane	U		0.432	2.00	10	11/06/2020 08:36	WG1571846
Chloroform	U		0.166	1.00	10	11/06/2020 08:36	WG1571846
Chloromethane	U		0.556	5.00	10	11/06/2020 08:36	WG1571846
2-Chlorotoluene	U		0.368	1.00	10	11/06/2020 08:36	WG1571846
4-Chlorotoluene	U		0.452	2.00	10	11/06/2020 08:36	WG1571846
1,2-Dibromo-3-Chloropropane	U		2.04	10.0	10	11/06/2020 08:36	WG1571846
1,2-Dibromoethane	U		0.210	1.00	10	11/06/2020 08:36	WG1571846
Dibromomethane	U		0.400	2.00	10	11/06/2020 08:36	WG1571846
1,2-Dichlorobenzene	U		0.580	2.00	10	11/06/2020 08:36	WG1571846
1,3-Dichlorobenzene	U		0.680	2.00	10	11/06/2020 08:36	WG1571846
1,4-Dichlorobenzene	U		0.788	2.00	10	11/06/2020 08:36	WG1571846
Dichlorodifluoromethane	U	J3	0.327	1.00	10	11/06/2020 08:36	WG1571846
1,1-Dichloroethane	U		0.230	1.00	10	11/06/2020 08:36	WG1571846
1,2-Dichloroethane	U		0.190	1.00	10	11/06/2020 08:36	WG1571846
1,1-Dichloroethene	2.02		0.200	1.00	10	11/06/2020 08:36	WG1571846
cis-1,2-Dichloroethene	1160		1.38	5.00	50	11/12/2020 11:44	WG1574660
trans-1,2-Dichloroethene	3.16		0.572	2.00	10	11/06/2020 08:36	WG1571846
1,2-Dichloropropane	U		0.508	2.00	10	11/06/2020 08:36	WG1571846
1,1-Dichloropropene	U		0.280	1.00	10	11/06/2020 08:36	WG1571846
1,3-Dichloropropane	U		0.700	2.00	10	11/06/2020 08:36	WG1571846
cis-1,3-Dichloropropene	U		0.271	1.00	10	11/06/2020 08:36	WG1571846
trans-1,3-Dichloropropene	U		0.612	2.00	10	11/06/2020 08:36	WG1571846
2,2-Dichloropropane	U		0.317	1.00	10	11/06/2020 08:36	WG1571846
Di-isopropyl ether	U		0.140	0.400	10	11/06/2020 08:36	WG1571846
Ethylbenzene	U		0.212	1.00	10	11/06/2020 08:36	WG1571846
Hexachloro-1,3-butadiene	U		5.08	10.0	10	11/06/2020 08:36	WG1571846
Isopropylbenzene	U		0.345	1.00	10	11/06/2020 08:36	WG1571846
p-Isopropyltoluene	U		0.932	2.00	10	11/06/2020 08:36	WG1571846
2-Butanone (MEK)	U		5.00	10.0	10	11/06/2020 08:36	WG1571846
Methylene Chloride	U		2.65	10.0	10	11/06/2020 08:36	WG1571846
4-Methyl-2-pentanone (MIBK)	U		4.00	10.0	10	11/06/2020 08:36	WG1571846
Methyl tert-butyl ether	U		0.118	0.400	10	11/06/2020 08:36	WG1571846
Naphthalene	U		1.24	5.00	10	11/06/2020 08:36	WG1571846
n-Propylbenzene	U		0.472	2.00	10	11/06/2020 08:36	WG1571846
Styrene	U		1.09	5.00	10	11/06/2020 08:36	WG1571846
1,1,1,2-Tetrachloroethane	U		0.200	1.00	10	11/06/2020 08:36	WG1571846
1,1,2,2-Tetrachloroethane	U		0.156	1.00	10	11/06/2020 08:36	WG1571846
1,1,2-Trichlorotrifluoroethane	U		0.270	1.00	10	11/06/2020 08:36	WG1571846
Tetrachloroethene	235	J0	0.280	1.00	10	11/06/2020 08:36	WG1571846
Toluene	U		0.500	2.00	10	11/06/2020 08:36	WG1571846
1,2,3-Trichlorobenzene	U	C4	0.250	5.00	10	11/06/2020 08:36	WG1571846
1,2,4-Trichlorobenzene	U		1.93	5.00	10	11/06/2020 08:36	WG1571846
1,1,1-Trichloroethane	U		0.110	1.00	10	11/06/2020 08:36	WG1571846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.353	1.00	10	11/06/2020 08:36	WG1571846
Trichloroethene	302		0.160	0.400	10	11/06/2020 08:36	WG1571846
Trichlorofluoromethane	U		0.200	1.00	10	11/06/2020 08:36	WG1571846
1,2,3-Trichloropropane	U		2.04	5.00	10	11/06/2020 08:36	WG1571846
1,2,4-Trimethylbenzene	U		0.464	2.00	10	11/06/2020 08:36	WG1571846
1,2,3-Trimethylbenzene	U		0.460	2.00	10	11/06/2020 08:36	WG1571846
1,3,5-Trimethylbenzene	U		0.432	2.00	10	11/06/2020 08:36	WG1571846
Vinyl chloride	5.08		0.273	1.00	10	11/06/2020 08:36	WG1571846
Xylenes, Total	U		1.91	2.60	10	11/06/2020 08:36	WG1571846
Ethyl Ether	U		0.170	1.00	10	11/06/2020 08:36	WG1571846
Tetrahydrofuran	U	J3	0.900	5.00	10	11/06/2020 08:36	WG1571846
Iodomethane	U		2.42	5.00	10	11/06/2020 08:36	WG1571846
Allyl chloride	U		5.80	10.0	10	11/06/2020 08:36	WG1571846
Trans-1,4-Dichloro-2-butene	U		0.560	2.00	10	11/06/2020 08:36	WG1571846
(S) Toluene-d8	*107*			*75.0-131*		*11/06/2020 08:36*	WG1571846
(S) Toluene-d8	*106*			*75.0-131*		*11/12/2020 11:44*	WG1574660
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/06/2020 08:36*	WG1571846
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*11/12/2020 11:44*	WG1574660
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*11/06/2020 08:36*	WG1571846
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*11/12/2020 11:44*	WG1574660

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/06/2020 06:22	WG1571846
Acrylonitrile	U		0.0760	0.500	1	11/06/2020 06:22	WG1571846
Benzene	0.0620		0.0160	0.0400	1	11/06/2020 06:22	WG1571846
Bromobenzene	U		0.0420	0.500	1	11/06/2020 06:22	WG1571846
Bromodichloromethane	U		0.0315	0.100	1	11/06/2020 06:22	WG1571846
Bromoform	U		0.239	1.00	1	11/06/2020 06:22	WG1571846
Bromomethane	U		0.148	0.500	1	11/06/2020 06:22	WG1571846
n-Butylbenzene	U		0.153	0.500	1	11/06/2020 06:22	WG1571846
sec-Butylbenzene	U		0.101	0.500	1	11/06/2020 06:22	WG1571846
tert-Butylbenzene	U		0.0620	0.200	1	11/06/2020 06:22	WG1571846
Carbon tetrachloride	U		0.0432	0.200	1	11/06/2020 06:22	WG1571846
Chlorobenzene	U		0.0229	0.100	1	11/06/2020 06:22	WG1571846
Chlorodibromomethane	U		0.0180	0.100	1	11/06/2020 06:22	WG1571846
Chloroethane	U		0.0432	0.200	1	11/06/2020 06:22	WG1571846
Chloroform	U		0.0166	0.100	1	11/06/2020 06:22	WG1571846
Chloromethane	2.80		0.0556	0.500	1	11/06/2020 06:22	WG1571846
2-Chlorotoluene	U		0.0368	0.100	1	11/06/2020 06:22	WG1571846
4-Chlorotoluene	U		0.0452	0.200	1	11/06/2020 06:22	WG1571846
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/06/2020 06:22	WG1571846
1,2-Dibromoethane	U		0.0210	0.100	1	11/06/2020 06:22	WG1571846
Dibromomethane	U		0.0400	0.200	1	11/06/2020 06:22	WG1571846
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/06/2020 06:22	WG1571846
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/06/2020 06:22	WG1571846
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/06/2020 06:22	WG1571846
Dichlorodifluoromethane	U	J3	0.0327	0.100	1	11/06/2020 06:22	WG1571846
1,1-Dichloroethane	U		0.0230	0.100	1	11/06/2020 06:22	WG1571846
1,2-Dichloroethane	U		0.0190	0.100	1	11/06/2020 06:22	WG1571846
1,1-Dichloroethene	0.727		0.0200	0.100	1	11/06/2020 06:22	WG1571846
cis-1,2-Dichloroethene	276		0.276	1.00	10	11/12/2020 12:04	WG1574660
trans-1,2-Dichloroethene	1.31		0.0572	0.200	1	11/06/2020 06:22	WG1571846
1,2-Dichloropropane	U		0.0508	0.200	1	11/06/2020 06:22	WG1571846
1,1-Dichloropropene	U		0.0280	0.100	1	11/06/2020 06:22	WG1571846
1,3-Dichloropropane	U		0.0700	0.200	1	11/06/2020 06:22	WG1571846
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/06/2020 06:22	WG1571846
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/06/2020 06:22	WG1571846
2,2-Dichloropropane	U		0.0317	0.100	1	11/06/2020 06:22	WG1571846
Di-isopropyl ether	U		0.0140	0.0400	1	11/06/2020 06:22	WG1571846
Ethylbenzene	U		0.0212	0.100	1	11/06/2020 06:22	WG1571846
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/06/2020 06:22	WG1571846
Isopropylbenzene	U		0.0345	0.100	1	11/06/2020 06:22	WG1571846
p-Isopropyltoluene	U		0.0932	0.200	1	11/06/2020 06:22	WG1571846
2-Butanone (MEK)	U		0.500	1.00	1	11/06/2020 06:22	WG1571846
Methylene Chloride	U		0.265	1.00	1	11/06/2020 06:22	WG1571846
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/06/2020 06:22	WG1571846
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/06/2020 06:22	WG1571846
Naphthalene	U		0.124	0.500	1	11/06/2020 06:22	WG1571846
n-Propylbenzene	U		0.0472	0.200	1	11/06/2020 06:22	WG1571846
Styrene	U		0.109	0.500	1	11/06/2020 06:22	WG1571846
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/06/2020 06:22	WG1571846
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/06/2020 06:22	WG1571846
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/06/2020 06:22	WG1571846
Tetrachloroethene	U		0.0280	0.100	1	11/06/2020 06:22	WG1571846
Toluene	0.430		0.0500	0.200	1	11/06/2020 06:22	WG1571846
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/06/2020 06:22	WG1571846
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/06/2020 06:22	WG1571846
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/06/2020 06:22	WG1571846

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/06/2020 06:22	WG1571846
Trichloroethene	0.766		0.0160	0.0400	1	11/06/2020 06:22	WG1571846
Trichlorofluoromethane	U		0.0200	0.100	1	11/06/2020 06:22	WG1571846
1,2,3-Trichloropropane	U		0.204	0.500	1	11/06/2020 06:22	WG1571846
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/06/2020 06:22	WG1571846
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/06/2020 06:22	WG1571846
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/06/2020 06:22	WG1571846
Vinyl chloride	489		0.273	1.00	10	11/12/2020 12:04	WG1574660
Xylenes, Total	U		0.191	0.260	1	11/06/2020 06:22	WG1571846
Ethyl Ether	0.325		0.0170	0.100	1	11/06/2020 06:22	WG1571846
Tetrahydrofuran	U	J3	0.0900	0.500	1	11/06/2020 06:22	WG1571846
Iodomethane	U		0.242	0.500	1	11/06/2020 06:22	WG1571846
Allyl chloride	U		0.580	1.00	1	11/06/2020 06:22	WG1571846
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/06/2020 06:22	WG1571846
(S) Toluene-d8	*107*			*75.0-131*		*11/06/2020 06:22*	WG1571846
(S) Toluene-d8	*105*			*75.0-131*		*11/12/2020 12:04*	WG1574660
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*11/06/2020 06:22*	WG1571846
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*11/12/2020 12:04*	WG1574660
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/06/2020 06:22*	WG1571846
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*11/12/2020 12:04*	WG1574660

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/06/2020 06:41	WG1571846
Acrylonitrile	U		0.0760	0.500	1	11/06/2020 06:41	WG1571846
Benzene	0.215		0.0160	0.0400	1	11/06/2020 06:41	WG1571846
Bromobenzene	U		0.0420	0.500	1	11/06/2020 06:41	WG1571846
Bromodichloromethane	U		0.0315	0.100	1	11/06/2020 06:41	WG1571846
Bromoform	U		0.239	1.00	1	11/06/2020 06:41	WG1571846
Bromomethane	U		0.148	0.500	1	11/06/2020 06:41	WG1571846
n-Butylbenzene	U		0.153	0.500	1	11/06/2020 06:41	WG1571846
sec-Butylbenzene	U		0.101	0.500	1	11/06/2020 06:41	WG1571846
tert-Butylbenzene	U		0.0620	0.200	1	11/06/2020 06:41	WG1571846
Carbon tetrachloride	U		0.0432	0.200	1	11/06/2020 06:41	WG1571846
Chlorobenzene	U		0.0229	0.100	1	11/06/2020 06:41	WG1571846
Chlorodibromomethane	U		0.0180	0.100	1	11/06/2020 06:41	WG1571846
Chloroethane	U		0.0432	0.200	1	11/06/2020 06:41	WG1571846
Chloroform	U		0.0166	0.100	1	11/06/2020 06:41	WG1571846
Chloromethane	U		0.0556	0.500	1	11/06/2020 06:41	WG1571846
2-Chlorotoluene	U		0.0368	0.100	1	11/06/2020 06:41	WG1571846
4-Chlorotoluene	U		0.0452	0.200	1	11/06/2020 06:41	WG1571846
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/06/2020 06:41	WG1571846
1,2-Dibromoethane	U		0.0210	0.100	1	11/06/2020 06:41	WG1571846
Dibromomethane	U		0.0400	0.200	1	11/06/2020 06:41	WG1571846
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/06/2020 06:41	WG1571846
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/06/2020 06:41	WG1571846
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/06/2020 06:41	WG1571846
Dichlorodifluoromethane	U	J3	0.0327	0.100	1	11/06/2020 06:41	WG1571846
1,1-Dichloroethane	U		0.0230	0.100	1	11/06/2020 06:41	WG1571846
1,2-Dichloroethane	U		0.0190	0.100	1	11/06/2020 06:41	WG1571846
1,1-Dichloroethene	0.203		0.0200	0.100	1	11/06/2020 06:41	WG1571846
cis-1,2-Dichloroethene	137		0.138	0.500	5	11/12/2020 12:25	WG1574660
trans-1,2-Dichloroethene	0.0910	J	0.0572	0.200	1	11/06/2020 06:41	WG1571846
1,2-Dichloropropane	U		0.0508	0.200	1	11/06/2020 06:41	WG1571846
1,1-Dichloropropene	U		0.0280	0.100	1	11/06/2020 06:41	WG1571846
1,3-Dichloropropane	U		0.0700	0.200	1	11/06/2020 06:41	WG1571846
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/06/2020 06:41	WG1571846
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/06/2020 06:41	WG1571846
2,2-Dichloropropane	U		0.0317	0.100	1	11/06/2020 06:41	WG1571846
Di-isopropyl ether	U		0.0140	0.0400	1	11/06/2020 06:41	WG1571846
Ethylbenzene	U		0.0212	0.100	1	11/06/2020 06:41	WG1571846
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/06/2020 06:41	WG1571846
Isopropylbenzene	U		0.0345	0.100	1	11/06/2020 06:41	WG1571846
p-Isopropyltoluene	U		0.0932	0.200	1	11/06/2020 06:41	WG1571846
2-Butanone (MEK)	U		0.500	1.00	1	11/06/2020 06:41	WG1571846
Methylene Chloride	U		0.265	1.00	1	11/06/2020 06:41	WG1571846
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/06/2020 06:41	WG1571846
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/06/2020 06:41	WG1571846
Naphthalene	U		0.124	0.500	1	11/06/2020 06:41	WG1571846
n-Propylbenzene	U		0.0472	0.200	1	11/06/2020 06:41	WG1571846
Styrene	U		0.109	0.500	1	11/06/2020 06:41	WG1571846
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/06/2020 06:41	WG1571846
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/06/2020 06:41	WG1571846
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/06/2020 06:41	WG1571846
Tetrachloroethene	0.172		0.0280	0.100	1	11/06/2020 06:41	WG1571846
Toluene	0.301		0.0500	0.200	1	11/06/2020 06:41	WG1571846
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/06/2020 06:41	WG1571846
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/06/2020 06:41	WG1571846
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/06/2020 06:41	WG1571846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/06/2020 06:41	WG1571846
Trichloroethene	3.52		0.0160	0.0400	1	11/06/2020 06:41	WG1571846
Trichlorofluoromethane	U		0.0200	0.100	1	11/06/2020 06:41	WG1571846
1,2,3-Trichloropropane	U		0.204	0.500	1	11/06/2020 06:41	WG1571846
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/06/2020 06:41	WG1571846
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/06/2020 06:41	WG1571846
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/06/2020 06:41	WG1571846
Vinyl chloride	5.80		0.0273	0.100	1	11/06/2020 06:41	WG1571846
Xylenes, Total	U		0.191	0.260	1	11/06/2020 06:41	WG1571846
Ethyl Ether	0.0730	J	0.0170	0.100	1	11/06/2020 06:41	WG1571846
Tetrahydrofuran	0.170	J J3	0.0900	0.500	1	11/06/2020 06:41	WG1571846
Iodomethane	U		0.242	0.500	1	11/06/2020 06:41	WG1571846
Allyl chloride	U		0.580	1.00	1	11/06/2020 06:41	WG1571846
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/06/2020 06:41	WG1571846
(S) Toluene-d8	*108*			*75.0-131*		*11/06/2020 06:41*	WG1571846
(S) Toluene-d8	*103*			*75.0-131*		*11/12/2020 12:25*	WG1574660
(S) 4-Bromofluorobenzene	*98.3*			*67.0-138*		*11/06/2020 06:41*	WG1571846
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*11/12/2020 12:25*	WG1574660
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/06/2020 06:41*	WG1571846
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*11/12/2020 12:25*	WG1574660

Method Blank (MB)

(MB) R3591566-1 11/09/20 18:02

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Sulfate	U		594	5000

L1281576-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1281576-02 11/09/20 20:14 • (DUP) R3591566-3 11/09/20 20:31

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	816	822	1	0.794	J	15

L1281756-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1281756-02 11/10/20 01:19 • (DUP) R3591566-6 11/10/20 02:10

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	5770	5750	1	0.382		15

Laboratory Control Sample (LCS)

(LCS) R3591566-2 11/09/20 18:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40000	38600	96.5	80.0-120	

L1281576-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1281576-03 11/09/20 20:48 • (MS) R3591566-4 11/09/20 21:05 • (MSD) R3591566-5 11/09/20 21:22

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 %
Sulfate	50000	U	50100	50100	100	100	1	80.0-120			0.173	15

L1281756-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1281756-04 11/10/20 02:27 • (MS) R3591566-7 11/10/20 02:44

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	50000	31800	82200	101	1	80.0-120	

Method Blank (MB)

(MB) R3591964-1 11/11/20 11:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	258	J	102	1000

L1283194-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1283194-03 11/11/20 14:38 • (DUP) R3591964-5 11/11/20 14:49

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC	4130	4120	1	0.267		20

L1281775-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1281775-02 11/11/20 20:35 • (DUP) R3591964-8 11/11/20 20:50

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC	31200	31300	1	0.448		20

Laboratory Control Sample (LCS)

(LCS) R3591964-2 11/11/20 11:54

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC	75000	73800	98.4	85.0-115	

L1281675-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1281675-01 11/11/20 13:33 • (MS) R3591964-3 11/11/20 13:48 • (MSD) R3591964-4 11/11/20 14:03

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	28700	79600	78300	102	99.3	1	80.0-120			1.58	20

L1281599-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1281599-09 11/11/20 16:09 • (MS) R3591964-6 11/11/20 16:44 • (MSD) R3591964-7 11/11/20 16:58

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	6060	55000	55000	97.8	97.9	1	80.0-120			0.0364	20

Method Blank (MB)

(MB) R3591638-1 11/10/20 23:29

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

Laboratory Control Sample (LCS)

(LCS) R3591638-2 11/10/20 23:32

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	5000	4960	99.2	80.0-120	
Manganese	50.0	51.6	103	80.0-120	

L1281775-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1281775-02 11/10/20 23:36 • (MS) R3591638-4 11/10/20 23:42 • (MSD) R3591638-5 11/10/20 23:45

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	10600	15100	15500	90.5	97.0	1	75.0-125			2.12	20
Manganese	50.0	2640	2680	2680	66.6	72.3	1	75.0-125	V	V	0.106	20

Method Blank (MB)

(MB) R3591557-2 11/10/20 14:29

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		2.91	10.0
Ethane	U		4.07	13.0
Ethene	U		4.26	13.0

L1281639-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1281639-08 11/10/20 16:01 • (DUP) R3591557-3 11/10/20 16:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	39.3	37.4	1	4.95		20
Ethane	11.9	11.7	1	1.69	J	20
Ethene	U	U	1	0.000		20

L1281639-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1281639-14 11/10/20 16:14 • (DUP) R3591557-4 11/10/20 16:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	46.6	51.5	1	9.99		20
Ethane	13.4	13.1	1	2.26		20
Ethene	U	U	1	0.000		20

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

(LCS) R3591557-1 11/10/20 14:12 • (LCSD) R3591557-5 11/10/20 16:42

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	70.0	70.9	103	105	85.0-115			1.28	20
Ethane	129	137	136	106	105	85.0-115			0.733	20
Ethene	127	134	133	106	105	85.0-115			0.749	20

Method Blank (MB)

(MB) R3590149-3 11/06/20 03:12

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

Method Blank (MB)

(MB) R3590149-3 11/06/20 03:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*108*			*75.0-131*
(S) 4-Bromofluorobenzene	*99.2*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*

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

(LCS) R3590149-1 11/06/20 01:37 • (LCSD) R3590149-2 11/06/20 01:56

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	33.8	36.8	135	147	10.0-160			8.50	31
Acrylonitrile	25.0	33.3	33.3	133	133	45.0-153			0.000	22
Benzene	5.00	5.15	5.04	103	101	70.0-123			2.16	20
Bromobenzene	5.00	5.41	5.56	108	111	73.0-121			2.73	20
Bromodichloromethane	5.00	5.30	5.24	106	105	73.0-121			1.14	20
Bromoform	5.00	5.81	6.15	116	123	64.0-132			5.69	20
Bromomethane	5.00	4.31	4.48	86.2	89.6	56.0-147			3.87	20
n-Butylbenzene	5.00	5.25	5.17	105	103	68.0-135			1.54	20
sec-Butylbenzene	5.00	5.46	5.48	109	110	74.0-130			0.366	20
tert-Butylbenzene	5.00	5.44	5.37	109	107	75.0-127			1.30	20
Carbon tetrachloride	5.00	5.89	5.76	118	115	66.0-128			2.23	20
Chlorobenzene	5.00	5.54	5.52	111	110	76.0-128			0.362	20
Chlorodibromomethane	5.00	5.18	5.34	104	107	74.0-127			3.04	20
Chloroethane	5.00	4.48	4.21	89.6	84.2	61.0-134			6.21	20
Chloroform	5.00	5.35	5.22	107	104	72.0-123			2.46	20
Chloromethane	5.00	5.44	4.69	109	93.8	51.0-138			14.8	20
2-Chlorotoluene	5.00	5.60	5.65	112	113	75.0-124			0.889	20
4-Chlorotoluene	5.00	5.35	5.41	107	108	75.0-124			1.12	20
1,2-Dibromo-3-Chloropropane	5.00	5.17	5.31	103	106	59.0-130			2.67	20
1,2-Dibromoethane	5.00	5.32	5.34	106	107	74.0-128			0.375	20
Dibromomethane	5.00	4.96	4.94	99.2	98.8	75.0-122			0.404	20
1,2-Dichlorobenzene	5.00	5.25	5.23	105	105	76.0-124			0.382	20
1,3-Dichlorobenzene	5.00	5.44	5.37	109	107	76.0-125			1.30	20
1,4-Dichlorobenzene	5.00	5.28	5.18	106	104	77.0-121			1.91	20
trans-1,4-Dichloro-2-butene	5.00	5.42	5.56	108	111	45.0-143			2.55	20
Dichlorodifluoromethane	5.00	6.64	5.32	133	106	43.0-156		J3	22.1	20
1,1-Dichloroethane	5.00	5.41	5.62	108	112	70.0-127			3.81	20
1,2-Dichloroethane	5.00	5.04	4.92	101	98.4	65.0-131			2.41	20
1,1-Dichloroethene	5.00	5.99	5.89	120	118	65.0-131			1.68	20
cis-1,2-Dichloroethene	5.00	5.60	5.58	112	112	73.0-125			0.358	20
trans-1,2-Dichloroethene	5.00	5.13	5.16	103	103	71.0-125			0.583	20
1,2-Dichloropropane	5.00	5.45	5.19	109	104	74.0-125			4.89	20
1,1-Dichloropropene	5.00	5.31	5.19	106	104	73.0-125			2.29	20
1,3-Dichloropropane	5.00	5.31	5.40	106	108	80.0-125			1.68	20
cis-1,3-Dichloropropene	5.00	5.29	4.98	106	99.6	76.0-127			6.04	20
trans-1,3-Dichloropropene	5.00	5.44	5.46	109	109	73.0-127			0.367	20
2,2-Dichloropropane	5.00	5.37	5.37	107	107	59.0-135			0.000	20
Di-isopropyl ether	5.00	5.64	5.77	113	115	60.0-136			2.28	20
Ethylbenzene	5.00	5.44	5.34	109	107	74.0-126			1.86	20
Ethyl ether	5.00	5.39	5.17	108	103	64.0-137			4.17	20

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

(LCS) R3590149-1 11/06/20 01:37 • (LCSD) R3590149-2 11/06/20 01:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	5.94	5.44	119	109	57.0-150			8.79	20
Iodomethane	25.0	29.0	30.3	116	121	74.0-134			4.38	20
Isopropylbenzene	5.00	5.68	5.59	114	112	72.0-127			1.60	20
p-Isopropyltoluene	5.00	5.36	5.43	107	109	72.0-133			1.30	20
2-Butanone (MEK)	25.0	37.7	33.6	151	134	30.0-160			11.5	24
Methylene Chloride	5.00	5.17	5.38	103	108	68.0-123			3.98	20
4-Methyl-2-pentanone (MIBK)	25.0	29.6	30.1	118	120	56.0-143			1.68	20
Methyl tert-butyl ether	5.00	5.36	5.37	107	107	66.0-132			0.186	20
Naphthalene	5.00	4.97	4.49	99.4	89.8	59.0-130			10.1	20
n-Propylbenzene	5.00	5.57	5.63	111	113	74.0-126			1.07	20
Styrene	5.00	5.23	5.35	105	107	72.0-127			2.27	20
1,1,1,2-Tetrachloroethane	5.00	5.69	5.73	114	115	74.0-129			0.701	20
1,1,2,2-Tetrachloroethane	5.00	4.94	4.96	98.8	99.2	68.0-128			0.404	20
Tetrachloroethene	5.00	6.34	6.10	127	122	70.0-136			3.86	20
Tetrahydrofuran	5.00	4.70	7.28	94.0	146	37.0-146		J3	43.1	24
Toluene	5.00	5.32	5.15	106	103	75.0-121			3.25	20
1,1,2-Trichlorotrifluoroethane	5.00	5.35	4.77	107	95.4	61.0-139			11.5	20
1,2,3-Trichlorobenzene	5.00	5.46	4.60	109	92.0	59.0-139			17.1	20
1,2,4-Trichlorobenzene	5.00	5.45	4.84	109	96.8	62.0-137			11.9	20
1,1,1-Trichloroethane	5.00	5.53	5.32	111	106	69.0-126			3.87	20
1,1,2-Trichloroethane	5.00	5.52	5.30	110	106	78.0-123			4.07	20
Trichloroethene	5.00	5.48	5.39	110	108	76.0-126			1.66	20
Trichlorofluoromethane	5.00	5.90	5.06	118	101	61.0-142			15.3	20
1,2,3-Trichloropropane	5.00	5.13	5.34	103	107	67.0-129			4.01	20
1,2,3-Trimethylbenzene	5.00	5.07	5.03	101	101	74.0-124			0.792	20
1,2,4-Trimethylbenzene	5.00	5.13	5.26	103	105	70.0-126			2.50	20
1,3,5-Trimethylbenzene	5.00	5.41	5.44	108	109	73.0-127			0.553	20
Vinyl chloride	5.00	4.96	4.71	99.2	94.2	63.0-134			5.17	20
Xylenes, Total	15.0	16.3	16.5	109	110	72.0-127			1.22	20
Allyl chloride	25.0	27.3	26.1	109	104	70.0-131			4.49	20
(S) Toluene-d8				*107*	*106*	*75.0-131*				
(S) 4-Bromofluorobenzene				*99.6*	*100*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*107*	*108*	*70.0-130*				

Method Blank (MB)

(MB) R3592676-2 11/12/20 09:56

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*105*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*97.7*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3592676-1 11/12/20 09:16

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
cis-1,2-Dichloroethene	5.00	4.80	96.0	73.0-125	
Vinyl chloride	5.00	4.29	85.8	63.0-134	
(S) Toluene-d8			*101*	*75.0-131*	
(S) 4-Bromofluorobenzene			*107*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*102*	*70.0-130*	

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
C4	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Data is likely to show a low bias concerning the result.
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 met method criteria.
J3	The associated batch QC was outside the established quality control range for precision.
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	LAO00356
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

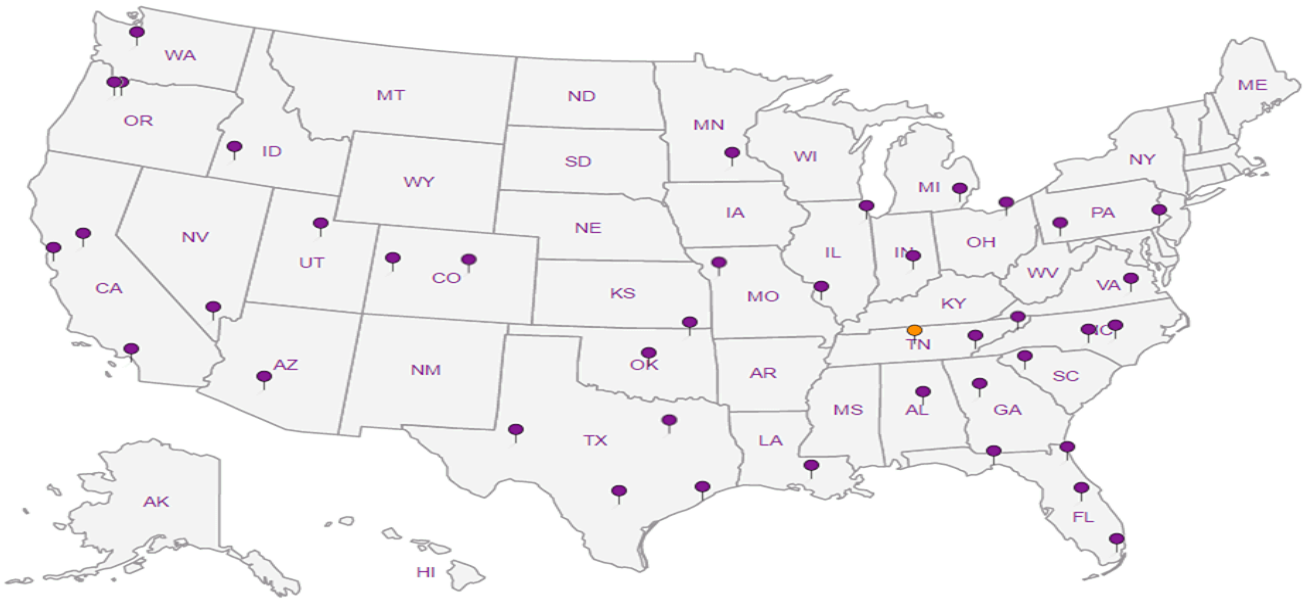
Third Party Federal Accreditations

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.



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 # 1413.001.02.501E

Lab Project # PESENVSWA-ALP

Collected by (print): SPK

Site/Facility ID # ALS

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK by 2320 125mlHDPE-NoPres	FEG,MNG 250mlHDPE-HNO3	NO3, CL, SO4 9056 125mlHDPE-NoPres	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	SULFATE 125mlHDPE-NoPres	TOC 250mlHDPE-HCl	V8260ULLC 40mlAmb-HCl			Remarks	Sample # (lab only)
MW-315-110220	Grab	GW	42.5	11/2/20	1005	3								X				-01
MW103-110220		GW	108.5		1057	8		X			X	X	X	X				02
MW-316-110220		GW	60		1125	3								X				03
MW111-110220		GW	75		1250	8		X			X	X	X	X				04
MW-325-110220		GW	39.5		1300	3								X				05
MW-326-110220		GW	95		1400	3								X				06
MW109-110220		GW	40		1500	8		X			X	X	X	X				07
MW-335-110220		GW	66		1540	3								X				08
FMW-141-110220		GW	52.5		1628	3								X				09
MW-336-110220		GW	95		1640	3								X				10

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 9050 0887 6791

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	11/3/2020	1600	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes (No) HCL / MeoH TBR

Temp: 0.3 °C Bottles Received: 45

Date: 11/4/20 Time: 0900

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

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

Chain of Custody Page 1 of 1

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
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SDG # L1281756

J033

Acctnum: PESENVSWA
Template: T176996
Prelogin: P807311
PM: 546 - Jared Starkey
PB:
Shipped Via:

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

November 13, 2020

PES Environmental, Inc.- WA

Sample Delivery Group:	L1281775
Samples Received:	11/04/2020
Project Number:	
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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MW-180-110320 L1281775-01 GW

Collected by: Sean Kounovsky | Collected date/time: 11/03/20 10:10 | Received date/time: 11/04/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1572755	1	11/10/20 18:06	11/10/20 18:06	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1574696	1	11/11/20 20:19	11/11/20 20:19	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1573382	20	11/10/20 05:17	11/11/20 12:23	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1573473	1	11/10/20 11:50	11/10/20 11:50	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1574257	10	11/10/20 17:27	11/10/20 17:27	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1571846	1	11/06/20 07:00	11/06/20 07:00	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1574660	5	11/12/20 12:45	11/12/20 12:45	ADM	Mt. Juliet, TN

MW-179-110320 L1281775-02 GW

Collected by: Sean Kounovsky | Collected date/time: 11/03/20 11:00 | Received date/time: 11/04/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1572755	1	11/10/20 18:44	11/10/20 18:44	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1574696	1	11/11/20 20:35	11/11/20 20:35	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1573382	1	11/10/20 05:17	11/10/20 23:36	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1573473	1	11/10/20 11:54	11/10/20 11:54	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1574257	10	11/10/20 17:29	11/10/20 17:29	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1571846	20	11/06/20 08:55	11/06/20 08:55	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1574660	500	11/12/20 13:06	11/12/20 13:06	ADM	Mt. Juliet, TN

MW-177-110320 L1281775-03 GW

Collected by: Sean Kounovsky | Collected date/time: 11/03/20 11:10 | Received date/time: 11/04/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1572755	1	11/10/20 18:57	11/10/20 18:57	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1574696	1	11/11/20 21:05	11/11/20 21:05	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1573384	1	11/09/20 22:08	11/10/20 13:25	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1573473	1	11/10/20 11:57	11/10/20 11:57	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1574257	10	11/10/20 17:32	11/10/20 17:32	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1574660	1000	11/12/20 13:26	11/12/20 13:26	ADM	Mt. Juliet, TN

MW-171-110320 L1281775-04 GW

Collected by: Sean Kounovsky | Collected date/time: 11/03/20 12:20 | Received date/time: 11/04/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1572755	1	11/10/20 19:09	11/10/20 19:09	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1574999	1	11/12/20 07:27	11/12/20 07:27	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1573384	1	11/09/20 22:08	11/10/20 13:37	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1573473	1	11/10/20 12:59	11/10/20 12:59	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1571846	1	11/06/20 07:19	11/06/20 07:19	DWR	Mt. Juliet, TN

MW-172-110320 L1281775-05 GW

Collected by: Sean Kounovsky | Collected date/time: 11/03/20 13:10 | Received date/time: 11/04/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1572755	1	11/10/20 19:22	11/10/20 19:22	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1574999	1	11/12/20 07:44	11/12/20 07:44	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1573384	1	11/09/20 22:08	11/10/20 13:41	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1573473	1	11/10/20 13:05	11/10/20 13:05	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1571846	1	11/06/20 07:38	11/06/20 07:38	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1574660	100	11/12/20 13:46	11/12/20 13:46	ADM	Mt. Juliet, TN

MW-169-110320 L1281775-06 GW

Collected by: Sean Kounovsky | Collected date/time: 11/03/20 14:00 | Received date/time: 11/04/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1572755	1	11/10/20 19:35	11/10/20 19:35	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1574999	1	11/12/20 09:03	11/12/20 09:03	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1573384	1	11/09/20 22:08	11/10/20 13:44	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1573473	1	11/10/20 13:07	11/10/20 13:07	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1574257	10	11/10/20 17:37	11/10/20 17:37	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1571846	1	11/06/20 07:58	11/06/20 07:58	DWR	Mt. Juliet, TN

MW-178-110320 L1281775-07 GW

Collected by: Sean Kounovsky | Collected date/time: 11/03/20 14:10 | Received date/time: 11/04/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1572755	1	11/10/20 19:48	11/10/20 19:48	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1574999	1	11/12/20 09:30	11/12/20 09:30	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1573384	1	11/09/20 22:08	11/10/20 13:47	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1573473	1	11/10/20 13:10	11/10/20 13:10	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1574257	10	11/10/20 17:42	11/10/20 17:42	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1571846	1	11/06/20 08:17	11/06/20 08:17	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1574660	100	11/12/20 14:06	11/12/20 14:06	ADM	Mt. Juliet, TN

MW-170-110320 L1281775-08 GW

Collected by: Sean Kounovsky | Collected date/time: 11/03/20 14:45 | Received date/time: 11/04/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1572755	5	11/10/20 20:00	11/10/20 20:00	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1574999	1	11/12/20 09:50	11/12/20 09:50	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1573384	1	11/09/20 22:08	11/10/20 13:50	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1573473	1	11/10/20 13:14	11/10/20 13:14	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1574257	10	11/10/20 17:45	11/10/20 17:45	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1571846	10	11/06/20 09:33	11/06/20 09:33	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1574660	250	11/12/20 14:27	11/12/20 14:27	ADM	Mt. Juliet, TN

TRIPBLANK-110320 L1281775-09 GW

Collected by: Sean Kounovsky | Collected date/time: 11/03/20 14:45 | Received date/time: 11/04/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1573882	1	11/10/20 10:38	11/10/20 10:38	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

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	55500		594	5000	1	11/10/2020 18:06	WG1572755

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)	25300		102	1000	1	11/11/2020 20:19	WG1574696

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	14100		562	2000	20	11/11/2020 12:23	WG1573382
Manganese	3530		14.1	100	20	11/11/2020 12:23	WG1573382

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	21700		2.87	6.78	10	11/10/2020 17:27	WG1574257
Ethane	6.99		0.296	1.29	1	11/10/2020 11:50	WG1573473
Ethene	33.2		0.422	1.27	1	11/10/2020 11:50	WG1573473

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/06/2020 07:00	WG1571846
Acrylonitrile	U		0.0760	0.500	1	11/06/2020 07:00	WG1571846
Benzene	U		0.0160	0.0400	1	11/06/2020 07:00	WG1571846
Bromobenzene	U		0.0420	0.500	1	11/06/2020 07:00	WG1571846
Bromodichloromethane	U		0.0315	0.100	1	11/06/2020 07:00	WG1571846
Bromoform	U		0.239	1.00	1	11/06/2020 07:00	WG1571846
Bromomethane	U		0.148	0.500	1	11/06/2020 07:00	WG1571846
n-Butylbenzene	U		0.153	0.500	1	11/06/2020 07:00	WG1571846
sec-Butylbenzene	U		0.101	0.500	1	11/06/2020 07:00	WG1571846
tert-Butylbenzene	U		0.0620	0.200	1	11/06/2020 07:00	WG1571846
Carbon tetrachloride	U		0.0432	0.200	1	11/06/2020 07:00	WG1571846
Chlorobenzene	U		0.0229	0.100	1	11/06/2020 07:00	WG1571846
Chlorodibromomethane	U		0.0180	0.100	1	11/06/2020 07:00	WG1571846
Chloroethane	2.66		0.0432	0.200	1	11/06/2020 07:00	WG1571846
Chloroform	U		0.0166	0.100	1	11/06/2020 07:00	WG1571846
Chloromethane	U		0.0556	0.500	1	11/06/2020 07:00	WG1571846
2-Chlorotoluene	U		0.0368	0.100	1	11/06/2020 07:00	WG1571846
4-Chlorotoluene	U		0.0452	0.200	1	11/06/2020 07:00	WG1571846
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/06/2020 07:00	WG1571846
1,2-Dibromoethane	U		0.0210	0.100	1	11/06/2020 07:00	WG1571846
Dibromomethane	U		0.0400	0.200	1	11/06/2020 07:00	WG1571846
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/06/2020 07:00	WG1571846
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/06/2020 07:00	WG1571846
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/06/2020 07:00	WG1571846
Dichlorodifluoromethane	U	J3	0.0327	0.100	1	11/06/2020 07:00	WG1571846
1,1-Dichloroethane	U		0.0230	0.100	1	11/06/2020 07:00	WG1571846
1,2-Dichloroethane	U		0.0190	0.100	1	11/06/2020 07:00	WG1571846
1,1-Dichloroethene	0.468		0.0200	0.100	1	11/06/2020 07:00	WG1571846
cis-1,2-Dichloroethene	156		0.138	0.500	5	11/12/2020 12:45	WG1574660
trans-1,2-Dichloroethene	1.31		0.0572	0.200	1	11/06/2020 07:00	WG1571846
1,2-Dichloropropane	U		0.0508	0.200	1	11/06/2020 07:00	WG1571846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/06/2020 07:00	WG1571846
1,3-Dichloropropane	U		0.0700	0.200	1	11/06/2020 07:00	WG1571846
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/06/2020 07:00	WG1571846
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/06/2020 07:00	WG1571846
2,2-Dichloropropane	U		0.0317	0.100	1	11/06/2020 07:00	WG1571846
Di-isopropyl ether	U		0.0140	0.0400	1	11/06/2020 07:00	WG1571846
Ethylbenzene	U		0.0212	0.100	1	11/06/2020 07:00	WG1571846
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/06/2020 07:00	WG1571846
Isopropylbenzene	U		0.0345	0.100	1	11/06/2020 07:00	WG1571846
p-Isopropyltoluene	U		0.0932	0.200	1	11/06/2020 07:00	WG1571846
2-Butanone (MEK)	U		0.500	1.00	1	11/06/2020 07:00	WG1571846
Methylene Chloride	U		0.265	1.00	1	11/06/2020 07:00	WG1571846
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/06/2020 07:00	WG1571846
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/06/2020 07:00	WG1571846
Naphthalene	U		0.124	0.500	1	11/06/2020 07:00	WG1571846
n-Propylbenzene	U		0.0472	0.200	1	11/06/2020 07:00	WG1571846
Styrene	U		0.109	0.500	1	11/06/2020 07:00	WG1571846
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/06/2020 07:00	WG1571846
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/06/2020 07:00	WG1571846
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/06/2020 07:00	WG1571846
Tetrachloroethene	0.335		0.0280	0.100	1	11/06/2020 07:00	WG1571846
Toluene	0.0840	J	0.0500	0.200	1	11/06/2020 07:00	WG1571846
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/06/2020 07:00	WG1571846
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/06/2020 07:00	WG1571846
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/06/2020 07:00	WG1571846
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/06/2020 07:00	WG1571846
Trichloroethene	1.08		0.0160	0.0400	1	11/06/2020 07:00	WG1571846
Trichlorofluoromethane	U		0.0200	0.100	1	11/06/2020 07:00	WG1571846
1,2,3-Trichloropropane	U		0.204	0.500	1	11/06/2020 07:00	WG1571846
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/06/2020 07:00	WG1571846
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/06/2020 07:00	WG1571846
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/06/2020 07:00	WG1571846
Vinyl chloride	59.0		0.0273	0.100	1	11/06/2020 07:00	WG1571846
Xylenes, Total	U		0.191	0.260	1	11/06/2020 07:00	WG1571846
Ethyl Ether	U		0.0170	0.100	1	11/06/2020 07:00	WG1571846
Tetrahydrofuran	U	J3	0.0900	0.500	1	11/06/2020 07:00	WG1571846
Iodomethane	U		0.242	0.500	1	11/06/2020 07:00	WG1571846
Allyl chloride	U		0.580	1.00	1	11/06/2020 07:00	WG1571846
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/06/2020 07:00	WG1571846
(S) Toluene-d8	*108*			*75.0-131*		*11/06/2020 07:00*	WG1571846
(S) Toluene-d8	*104*			*75.0-131*		*11/12/2020 12:45*	WG1574660
(S) 4-Bromofluorobenzene	*99.5*			*67.0-138*		*11/06/2020 07:00*	WG1571846
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*11/12/2020 12:45*	WG1574660
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*11/06/2020 07:00*	WG1571846
(S) 1,2-Dichloroethane-d4	*99.7*			*70.0-130*		*11/12/2020 12:45*	WG1574660

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	13200		594	5000	1	11/10/2020 18:44	WG1572755

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)	31200		102	1000	1	11/11/2020 20:35	WG1574696

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	10600		28.1	100	1	11/10/2020 23:36	WG1573382
Manganese	2640	V	0.704	5.00	1	11/10/2020 23:36	WG1573382

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	25600		2.87	6.78	10	11/10/2020 17:29	WG1574257
Ethane	4.77		0.296	1.29	1	11/10/2020 11:54	WG1573473
Ethene	121		0.422	1.27	1	11/10/2020 11:54	WG1573473

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		11.0	20.0	20	11/06/2020 08:55	WG1571846
Acrylonitrile	U		1.52	10.0	20	11/06/2020 08:55	WG1571846
Benzene	U		0.320	0.800	20	11/06/2020 08:55	WG1571846
Bromobenzene	U		0.840	10.0	20	11/06/2020 08:55	WG1571846
Bromodichloromethane	U		0.630	2.00	20	11/06/2020 08:55	WG1571846
Bromoform	U		4.78	20.0	20	11/06/2020 08:55	WG1571846
Bromomethane	U		2.96	10.0	20	11/06/2020 08:55	WG1571846
n-Butylbenzene	U		3.06	10.0	20	11/06/2020 08:55	WG1571846
sec-Butylbenzene	U		2.02	10.0	20	11/06/2020 08:55	WG1571846
tert-Butylbenzene	U		1.24	4.00	20	11/06/2020 08:55	WG1571846
Carbon tetrachloride	U		0.864	4.00	20	11/06/2020 08:55	WG1571846
Chlorobenzene	U		0.458	2.00	20	11/06/2020 08:55	WG1571846
Chlorodibromomethane	U		0.360	2.00	20	11/06/2020 08:55	WG1571846
Chloroethane	U		0.864	4.00	20	11/06/2020 08:55	WG1571846
Chloroform	U		0.332	2.00	20	11/06/2020 08:55	WG1571846
Chloromethane	U		1.11	10.0	20	11/06/2020 08:55	WG1571846
2-Chlorotoluene	U		0.736	2.00	20	11/06/2020 08:55	WG1571846
4-Chlorotoluene	U		0.904	4.00	20	11/06/2020 08:55	WG1571846
1,2-Dibromo-3-Chloropropane	U		4.08	20.0	20	11/06/2020 08:55	WG1571846
1,2-Dibromoethane	U		0.420	2.00	20	11/06/2020 08:55	WG1571846
Dibromomethane	U		0.800	4.00	20	11/06/2020 08:55	WG1571846
1,2-Dichlorobenzene	U		1.16	4.00	20	11/06/2020 08:55	WG1571846
1,3-Dichlorobenzene	U		1.36	4.00	20	11/06/2020 08:55	WG1571846
1,4-Dichlorobenzene	U		1.58	4.00	20	11/06/2020 08:55	WG1571846
Dichlorodifluoromethane	U	J3	0.654	2.00	20	11/06/2020 08:55	WG1571846
1,1-Dichloroethane	U		0.460	2.00	20	11/06/2020 08:55	WG1571846
1,2-Dichloroethane	U		0.380	2.00	20	11/06/2020 08:55	WG1571846
1,1-Dichloroethene	24.3		0.400	2.00	20	11/06/2020 08:55	WG1571846
cis-1,2-Dichloroethene	17700		13.8	50.0	500	11/12/2020 13:06	WG1574660
trans-1,2-Dichloroethene	45.5		1.14	4.00	20	11/06/2020 08:55	WG1571846
1,2-Dichloropropane	U		1.02	4.00	20	11/06/2020 08:55	WG1571846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.560	2.00	20	11/06/2020 08:55	WG1571846
1,3-Dichloropropane	U		1.40	4.00	20	11/06/2020 08:55	WG1571846
cis-1,3-Dichloropropene	U		0.542	2.00	20	11/06/2020 08:55	WG1571846
trans-1,3-Dichloropropene	U		1.22	4.00	20	11/06/2020 08:55	WG1571846
2,2-Dichloropropane	U		0.634	2.00	20	11/06/2020 08:55	WG1571846
Di-isopropyl ether	U		0.280	0.800	20	11/06/2020 08:55	WG1571846
Ethylbenzene	U		0.424	2.00	20	11/06/2020 08:55	WG1571846
Hexachloro-1,3-butadiene	U		10.2	20.0	20	11/06/2020 08:55	WG1571846
Isopropylbenzene	U		0.690	2.00	20	11/06/2020 08:55	WG1571846
p-Isopropyltoluene	U		1.86	4.00	20	11/06/2020 08:55	WG1571846
2-Butanone (MEK)	U		10.0	20.0	20	11/06/2020 08:55	WG1571846
Methylene Chloride	U		5.30	20.0	20	11/06/2020 08:55	WG1571846
4-Methyl-2-pentanone (MIBK)	U		8.00	20.0	20	11/06/2020 08:55	WG1571846
Methyl tert-butyl ether	U		0.236	0.800	20	11/06/2020 08:55	WG1571846
Naphthalene	U		2.48	10.0	20	11/06/2020 08:55	WG1571846
n-Propylbenzene	U		0.944	4.00	20	11/06/2020 08:55	WG1571846
Styrene	U		2.18	10.0	20	11/06/2020 08:55	WG1571846
1,1,1,2-Tetrachloroethane	U		0.400	2.00	20	11/06/2020 08:55	WG1571846
1,1,2,2-Tetrachloroethane	U		0.312	2.00	20	11/06/2020 08:55	WG1571846
1,1,2-Trichlorotrifluoroethane	U		0.540	2.00	20	11/06/2020 08:55	WG1571846
Tetrachloroethene	36.1	J0	0.560	2.00	20	11/06/2020 08:55	WG1571846
Toluene	U		1.00	4.00	20	11/06/2020 08:55	WG1571846
1,2,3-Trichlorobenzene	U	C4	0.500	10.0	20	11/06/2020 08:55	WG1571846
1,2,4-Trichlorobenzene	U		3.86	10.0	20	11/06/2020 08:55	WG1571846
1,1,1-Trichloroethane	U		0.220	2.00	20	11/06/2020 08:55	WG1571846
1,1,2-Trichloroethane	U		0.706	2.00	20	11/06/2020 08:55	WG1571846
Trichloroethene	19.6		0.320	0.800	20	11/06/2020 08:55	WG1571846
Trichlorofluoromethane	U		0.400	2.00	20	11/06/2020 08:55	WG1571846
1,2,3-Trichloropropane	U		4.08	10.0	20	11/06/2020 08:55	WG1571846
1,2,4-Trimethylbenzene	U		0.928	4.00	20	11/06/2020 08:55	WG1571846
1,2,3-Trimethylbenzene	U		0.920	4.00	20	11/06/2020 08:55	WG1571846
1,3,5-Trimethylbenzene	U		0.864	4.00	20	11/06/2020 08:55	WG1571846
Vinyl chloride	1670		0.546	2.00	20	11/06/2020 08:55	WG1571846
Xylenes, Total	U		3.82	5.20	20	11/06/2020 08:55	WG1571846
Ethyl Ether	U		0.340	2.00	20	11/06/2020 08:55	WG1571846
Tetrahydrofuran	U	J3	1.80	10.0	20	11/06/2020 08:55	WG1571846
Iodomethane	U		4.84	10.0	20	11/06/2020 08:55	WG1571846
Allyl chloride	U		11.6	20.0	20	11/06/2020 08:55	WG1571846
Trans-1,4-Dichloro-2-butene	U		1.12	4.00	20	11/06/2020 08:55	WG1571846
(S) Toluene-d8	*107*			*75.0-131*		*11/06/2020 08:55*	WG1571846
(S) Toluene-d8	*103*			*75.0-131*		*11/12/2020 13:06*	WG1574660
(S) 4-Bromofluorobenzene	*99.1*			*67.0-138*		*11/06/2020 08:55*	WG1571846
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*11/12/2020 13:06*	WG1574660
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*11/06/2020 08:55*	WG1571846
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*11/12/2020 13:06*	WG1574660

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	55400		594	5000	1	11/10/2020 18:57	WG1572755

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)	17400		102	1000	1	11/11/2020 21:05	WG1574696

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	6260		28.1	100	1	11/10/2020 13:25	WG1573384
Manganese	1320		0.704	5.00	1	11/10/2020 13:25	WG1573384

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	28400		2.87	6.78	10	11/10/2020 17:32	WG1574257
Ethane	472		0.296	1.29	1	11/10/2020 11:57	WG1573473
Ethene	2990		0.422	1.27	1	11/10/2020 11:57	WG1573473

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		548	1000	1000	11/12/2020 13:26	WG1574660
Acrylonitrile	U		76.0	500	1000	11/12/2020 13:26	WG1574660
Benzene	U		16.0	40.0	1000	11/12/2020 13:26	WG1574660
Bromobenzene	U		42.0	500	1000	11/12/2020 13:26	WG1574660
Bromodichloromethane	U		31.5	100	1000	11/12/2020 13:26	WG1574660
Bromoform	U		239	1000	1000	11/12/2020 13:26	WG1574660
Bromomethane	U		148	500	1000	11/12/2020 13:26	WG1574660
n-Butylbenzene	U		153	500	1000	11/12/2020 13:26	WG1574660
sec-Butylbenzene	U		101	500	1000	11/12/2020 13:26	WG1574660
tert-Butylbenzene	U		62.0	200	1000	11/12/2020 13:26	WG1574660
Carbon tetrachloride	U		43.2	200	1000	11/12/2020 13:26	WG1574660
Chlorobenzene	U		22.9	100	1000	11/12/2020 13:26	WG1574660
Chlorodibromomethane	U		18.0	100	1000	11/12/2020 13:26	WG1574660
Chloroethane	U		43.2	200	1000	11/12/2020 13:26	WG1574660
Chloroform	U		16.6	100	1000	11/12/2020 13:26	WG1574660
Chloromethane	U		55.6	500	1000	11/12/2020 13:26	WG1574660
2-Chlorotoluene	U		36.8	100	1000	11/12/2020 13:26	WG1574660
4-Chlorotoluene	U		45.2	200	1000	11/12/2020 13:26	WG1574660
1,2-Dibromo-3-Chloropropane	U		204	1000	1000	11/12/2020 13:26	WG1574660
1,2-Dibromoethane	U		21.0	100	1000	11/12/2020 13:26	WG1574660
Dibromomethane	U		40.0	200	1000	11/12/2020 13:26	WG1574660
1,2-Dichlorobenzene	U		58.0	200	1000	11/12/2020 13:26	WG1574660
1,3-Dichlorobenzene	U		68.0	200	1000	11/12/2020 13:26	WG1574660
1,4-Dichlorobenzene	U		78.8	200	1000	11/12/2020 13:26	WG1574660
Dichlorodifluoromethane	U		32.7	100	1000	11/12/2020 13:26	WG1574660
1,1-Dichloroethane	U		23.0	100	1000	11/12/2020 13:26	WG1574660
1,2-Dichloroethane	U		19.0	100	1000	11/12/2020 13:26	WG1574660
1,1-Dichloroethene	U		20.0	100	1000	11/12/2020 13:26	WG1574660
cis-1,2-Dichloroethene	16900		27.6	100	1000	11/12/2020 13:26	WG1574660
trans-1,2-Dichloroethene	U		57.2	200	1000	11/12/2020 13:26	WG1574660
1,2-Dichloropropane	U		50.8	200	1000	11/12/2020 13:26	WG1574660

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		28.0	100	1000	11/12/2020 13:26	WG1574660
1,3-Dichloropropane	U		70.0	200	1000	11/12/2020 13:26	WG1574660
cis-1,3-Dichloropropene	U		27.1	100	1000	11/12/2020 13:26	WG1574660
trans-1,3-Dichloropropene	U		61.2	200	1000	11/12/2020 13:26	WG1574660
2,2-Dichloropropane	U		31.7	100	1000	11/12/2020 13:26	WG1574660
Di-isopropyl ether	U		14.0	40.0	1000	11/12/2020 13:26	WG1574660
Ethylbenzene	U		21.2	100	1000	11/12/2020 13:26	WG1574660
Hexachloro-1,3-butadiene	U		508	1000	1000	11/12/2020 13:26	WG1574660
Isopropylbenzene	U		34.5	100	1000	11/12/2020 13:26	WG1574660
p-Isopropyltoluene	U		93.2	200	1000	11/12/2020 13:26	WG1574660
2-Butanone (MEK)	U		500	1000	1000	11/12/2020 13:26	WG1574660
Methylene Chloride	U		265	1000	1000	11/12/2020 13:26	WG1574660
4-Methyl-2-pentanone (MIBK)	U		400	1000	1000	11/12/2020 13:26	WG1574660
Methyl tert-butyl ether	U		11.8	40.0	1000	11/12/2020 13:26	WG1574660
Naphthalene	U		124	500	1000	11/12/2020 13:26	WG1574660
n-Propylbenzene	U		47.2	200	1000	11/12/2020 13:26	WG1574660
Styrene	U		109	500	1000	11/12/2020 13:26	WG1574660
1,1,1,2-Tetrachloroethane	U		20.0	100	1000	11/12/2020 13:26	WG1574660
1,1,2,2-Tetrachloroethane	U		15.6	100	1000	11/12/2020 13:26	WG1574660
1,1,2-Trichlorotrifluoroethane	U		27.0	100	1000	11/12/2020 13:26	WG1574660
Tetrachloroethene	7170		28.0	100	1000	11/12/2020 13:26	WG1574660
Toluene	U		50.0	200	1000	11/12/2020 13:26	WG1574660
1,2,3-Trichlorobenzene	U		25.0	500	1000	11/12/2020 13:26	WG1574660
1,2,4-Trichlorobenzene	U		193	500	1000	11/12/2020 13:26	WG1574660
1,1,1-Trichloroethane	U		11.0	100	1000	11/12/2020 13:26	WG1574660
1,1,2-Trichloroethane	U		35.3	100	1000	11/12/2020 13:26	WG1574660
Trichloroethene	861		16.0	40.0	1000	11/12/2020 13:26	WG1574660
Trichlorofluoromethane	U		20.0	100	1000	11/12/2020 13:26	WG1574660
1,2,3-Trichloropropane	U		204	500	1000	11/12/2020 13:26	WG1574660
1,2,4-Trimethylbenzene	U		46.4	200	1000	11/12/2020 13:26	WG1574660
1,2,3-Trimethylbenzene	U		46.0	200	1000	11/12/2020 13:26	WG1574660
1,3,5-Trimethylbenzene	U		43.2	200	1000	11/12/2020 13:26	WG1574660
Vinyl chloride	6740		27.3	100	1000	11/12/2020 13:26	WG1574660
Xylenes, Total	U		191	260	1000	11/12/2020 13:26	WG1574660
Ethyl Ether	U		17.0	100	1000	11/12/2020 13:26	WG1574660
Tetrahydrofuran	U		90.0	500	1000	11/12/2020 13:26	WG1574660
Iodomethane	U		242	500	1000	11/12/2020 13:26	WG1574660
Allyl chloride	U		580	1000	1000	11/12/2020 13:26	WG1574660
Trans-1,4-Dichloro-2-butene	U	C4	56.0	200	1000	11/12/2020 13:26	WG1574660
(S) Toluene-d8	*106*			*75.0-131*		*11/12/2020 13:26*	WG1574660
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*11/12/2020 13:26*	WG1574660
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/12/2020 13:26*	WG1574660

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sulfate	12900		594	5000	1	11/10/2020 19:09	WG1572755

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	8640		102	1000	1	11/12/2020 07:27	WG1574999

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2400		28.1	100	1	11/10/2020 13:37	WG1573384
Manganese	203		0.704	5.00	1	11/10/2020 13:37	WG1573384

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1560		0.287	0.678	1	11/10/2020 12:59	WG1573473
Ethane	60.8		0.296	1.29	1	11/10/2020 12:59	WG1573473
Ethene	177		0.422	1.27	1	11/10/2020 12:59	WG1573473

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/06/2020 07:19	WG1571846
Acrylonitrile	U		0.0760	0.500	1	11/06/2020 07:19	WG1571846
Benzene	0.0440		0.0160	0.0400	1	11/06/2020 07:19	WG1571846
Bromobenzene	U		0.0420	0.500	1	11/06/2020 07:19	WG1571846
Bromodichloromethane	U		0.0315	0.100	1	11/06/2020 07:19	WG1571846
Bromoform	U		0.239	1.00	1	11/06/2020 07:19	WG1571846
Bromomethane	U		0.148	0.500	1	11/06/2020 07:19	WG1571846
n-Butylbenzene	U		0.153	0.500	1	11/06/2020 07:19	WG1571846
sec-Butylbenzene	U		0.101	0.500	1	11/06/2020 07:19	WG1571846
tert-Butylbenzene	U		0.0620	0.200	1	11/06/2020 07:19	WG1571846
Carbon tetrachloride	U		0.0432	0.200	1	11/06/2020 07:19	WG1571846
Chlorobenzene	U		0.0229	0.100	1	11/06/2020 07:19	WG1571846
Chlorodibromomethane	U		0.0180	0.100	1	11/06/2020 07:19	WG1571846
Chloroethane	U		0.0432	0.200	1	11/06/2020 07:19	WG1571846
Chloroform	U		0.0166	0.100	1	11/06/2020 07:19	WG1571846
Chloromethane	U		0.0556	0.500	1	11/06/2020 07:19	WG1571846
2-Chlorotoluene	U		0.0368	0.100	1	11/06/2020 07:19	WG1571846
4-Chlorotoluene	U		0.0452	0.200	1	11/06/2020 07:19	WG1571846
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/06/2020 07:19	WG1571846
1,2-Dibromoethane	U		0.0210	0.100	1	11/06/2020 07:19	WG1571846
Dibromomethane	U		0.0400	0.200	1	11/06/2020 07:19	WG1571846
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/06/2020 07:19	WG1571846
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/06/2020 07:19	WG1571846
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/06/2020 07:19	WG1571846
Dichlorodifluoromethane	U	J3	0.0327	0.100	1	11/06/2020 07:19	WG1571846
1,1-Dichloroethane	0.0330	J	0.0230	0.100	1	11/06/2020 07:19	WG1571846
1,2-Dichloroethane	U		0.0190	0.100	1	11/06/2020 07:19	WG1571846
1,1-Dichloroethene	0.180		0.0200	0.100	1	11/06/2020 07:19	WG1571846
cis-1,2-Dichloroethene	32.6		0.0276	0.100	1	11/06/2020 07:19	WG1571846
trans-1,2-Dichloroethene	0.289		0.0572	0.200	1	11/06/2020 07:19	WG1571846
1,2-Dichloropropane	U		0.0508	0.200	1	11/06/2020 07:19	WG1571846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/06/2020 07:19	WG1571846
1,3-Dichloropropane	U		0.0700	0.200	1	11/06/2020 07:19	WG1571846
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/06/2020 07:19	WG1571846
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/06/2020 07:19	WG1571846
2,2-Dichloropropane	U		0.0317	0.100	1	11/06/2020 07:19	WG1571846
Di-isopropyl ether	U		0.0140	0.0400	1	11/06/2020 07:19	WG1571846
Ethylbenzene	U		0.0212	0.100	1	11/06/2020 07:19	WG1571846
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/06/2020 07:19	WG1571846
Isopropylbenzene	U		0.0345	0.100	1	11/06/2020 07:19	WG1571846
p-Isopropyltoluene	U		0.0932	0.200	1	11/06/2020 07:19	WG1571846
2-Butanone (MEK)	U		0.500	1.00	1	11/06/2020 07:19	WG1571846
Methylene Chloride	U		0.265	1.00	1	11/06/2020 07:19	WG1571846
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/06/2020 07:19	WG1571846
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/06/2020 07:19	WG1571846
Naphthalene	U		0.124	0.500	1	11/06/2020 07:19	WG1571846
n-Propylbenzene	U		0.0472	0.200	1	11/06/2020 07:19	WG1571846
Styrene	U		0.109	0.500	1	11/06/2020 07:19	WG1571846
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/06/2020 07:19	WG1571846
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/06/2020 07:19	WG1571846
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/06/2020 07:19	WG1571846
Tetrachloroethene	0.0460	J J0	0.0280	0.100	1	11/06/2020 07:19	WG1571846
Toluene	0.175	J	0.0500	0.200	1	11/06/2020 07:19	WG1571846
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/06/2020 07:19	WG1571846
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/06/2020 07:19	WG1571846
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/06/2020 07:19	WG1571846
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/06/2020 07:19	WG1571846
Trichloroethene	0.277		0.0160	0.0400	1	11/06/2020 07:19	WG1571846
Trichlorofluoromethane	U		0.0200	0.100	1	11/06/2020 07:19	WG1571846
1,2,3-Trichloropropane	U		0.204	0.500	1	11/06/2020 07:19	WG1571846
1,2,4-Trimethylbenzene	0.0900	J	0.0464	0.200	1	11/06/2020 07:19	WG1571846
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/06/2020 07:19	WG1571846
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/06/2020 07:19	WG1571846
Vinyl chloride	56.1		0.0273	0.100	1	11/06/2020 07:19	WG1571846
Xylenes, Total	0.234	J	0.191	0.260	1	11/06/2020 07:19	WG1571846
Ethyl Ether	U		0.0170	0.100	1	11/06/2020 07:19	WG1571846
Tetrahydrofuran	U	J3	0.0900	0.500	1	11/06/2020 07:19	WG1571846
Iodomethane	U		0.242	0.500	1	11/06/2020 07:19	WG1571846
Allyl chloride	U		0.580	1.00	1	11/06/2020 07:19	WG1571846
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/06/2020 07:19	WG1571846
(S) Toluene-d8	*109*			*75.0-131*		*11/06/2020 07:19*	WG1571846
(S) 4-Bromofluorobenzene	*98.0*			*67.0-138*		*11/06/2020 07:19*	WG1571846
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/06/2020 07:19*	WG1571846

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	33900		594	5000	1	11/10/2020 19:22	WG1572755

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)	8820		102	1000	1	11/12/2020 07:44	WG1574999

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1820		28.1	100	1	11/10/2020 13:41	WG1573384
Manganese	1900		0.704	5.00	1	11/10/2020 13:41	WG1573384

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	893		0.287	0.678	1	11/10/2020 13:05	WG1573473
Ethane	16.5		0.296	1.29	1	11/10/2020 13:05	WG1573473
Ethene	21.3		0.422	1.27	1	11/10/2020 13:05	WG1573473

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/06/2020 07:38	WG1571846
Acrylonitrile	U		0.0760	0.500	1	11/06/2020 07:38	WG1571846
Benzene	0.0830		0.0160	0.0400	1	11/06/2020 07:38	WG1571846
Bromobenzene	U		0.0420	0.500	1	11/06/2020 07:38	WG1571846
Bromodichloromethane	U		0.0315	0.100	1	11/06/2020 07:38	WG1571846
Bromoform	U		0.239	1.00	1	11/06/2020 07:38	WG1571846
Bromomethane	U		0.148	0.500	1	11/06/2020 07:38	WG1571846
n-Butylbenzene	U		0.153	0.500	1	11/06/2020 07:38	WG1571846
sec-Butylbenzene	U		0.101	0.500	1	11/06/2020 07:38	WG1571846
tert-Butylbenzene	U		0.0620	0.200	1	11/06/2020 07:38	WG1571846
Carbon tetrachloride	U		0.0432	0.200	1	11/06/2020 07:38	WG1571846
Chlorobenzene	U		0.0229	0.100	1	11/06/2020 07:38	WG1571846
Chlorodibromomethane	U		0.0180	0.100	1	11/06/2020 07:38	WG1571846
Chloroethane	U		0.0432	0.200	1	11/06/2020 07:38	WG1571846
Chloroform	0.133		0.0166	0.100	1	11/06/2020 07:38	WG1571846
Chloromethane	U		0.0556	0.500	1	11/06/2020 07:38	WG1571846
2-Chlorotoluene	U		0.0368	0.100	1	11/06/2020 07:38	WG1571846
4-Chlorotoluene	U		0.0452	0.200	1	11/06/2020 07:38	WG1571846
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/06/2020 07:38	WG1571846
1,2-Dibromoethane	U		0.0210	0.100	1	11/06/2020 07:38	WG1571846
Dibromomethane	U		0.0400	0.200	1	11/06/2020 07:38	WG1571846
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/06/2020 07:38	WG1571846
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/06/2020 07:38	WG1571846
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/06/2020 07:38	WG1571846
Dichlorodifluoromethane	U	J3	0.0327	0.100	1	11/06/2020 07:38	WG1571846
1,1-Dichloroethane	0.309		0.0230	0.100	1	11/06/2020 07:38	WG1571846
1,2-Dichloroethane	U		0.0190	0.100	1	11/06/2020 07:38	WG1571846
1,1-Dichloroethene	85.5		0.0200	0.100	1	11/06/2020 07:38	WG1571846
cis-1,2-Dichloroethene	582		2.76	10.0	100	11/12/2020 13:46	WG1574660
trans-1,2-Dichloroethene	44.1		0.0572	0.200	1	11/06/2020 07:38	WG1571846
1,2-Dichloropropane	U		0.0508	0.200	1	11/06/2020 07:38	WG1571846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/06/2020 07:38	WG1571846
1,3-Dichloropropane	U		0.0700	0.200	1	11/06/2020 07:38	WG1571846
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/06/2020 07:38	WG1571846
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/06/2020 07:38	WG1571846
2,2-Dichloropropane	U		0.0317	0.100	1	11/06/2020 07:38	WG1571846
Di-isopropyl ether	U		0.0140	0.0400	1	11/06/2020 07:38	WG1571846
Ethylbenzene	0.177		0.0212	0.100	1	11/06/2020 07:38	WG1571846
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/06/2020 07:38	WG1571846
Isopropylbenzene	U		0.0345	0.100	1	11/06/2020 07:38	WG1571846
p-Isopropyltoluene	U		0.0932	0.200	1	11/06/2020 07:38	WG1571846
2-Butanone (MEK)	U		0.500	1.00	1	11/06/2020 07:38	WG1571846
Methylene Chloride	U		0.265	1.00	1	11/06/2020 07:38	WG1571846
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/06/2020 07:38	WG1571846
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/06/2020 07:38	WG1571846
Naphthalene	U		0.124	0.500	1	11/06/2020 07:38	WG1571846
n-Propylbenzene	U		0.0472	0.200	1	11/06/2020 07:38	WG1571846
Styrene	U		0.109	0.500	1	11/06/2020 07:38	WG1571846
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/06/2020 07:38	WG1571846
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/06/2020 07:38	WG1571846
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/06/2020 07:38	WG1571846
Tetrachloroethene	5780		2.80	10.0	100	11/12/2020 13:46	WG1574660
Toluene	0.750		0.0500	0.200	1	11/06/2020 07:38	WG1571846
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/06/2020 07:38	WG1571846
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/06/2020 07:38	WG1571846
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/06/2020 07:38	WG1571846
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/06/2020 07:38	WG1571846
Trichloroethene	4130		1.60	4.00	100	11/12/2020 13:46	WG1574660
Trichlorofluoromethane	U		0.0200	0.100	1	11/06/2020 07:38	WG1571846
1,2,3-Trichloropropane	U		0.204	0.500	1	11/06/2020 07:38	WG1571846
1,2,4-Trimethylbenzene	0.0640	J	0.0464	0.200	1	11/06/2020 07:38	WG1571846
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/06/2020 07:38	WG1571846
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/06/2020 07:38	WG1571846
Vinyl chloride	12.9		0.0273	0.100	1	11/06/2020 07:38	WG1571846
Xylenes, Total	0.565		0.191	0.260	1	11/06/2020 07:38	WG1571846
Ethyl Ether	U		0.0170	0.100	1	11/06/2020 07:38	WG1571846
Tetrahydrofuran	U	J3	0.0900	0.500	1	11/06/2020 07:38	WG1571846
Iodomethane	U		0.242	0.500	1	11/06/2020 07:38	WG1571846
Allyl chloride	U		0.580	1.00	1	11/06/2020 07:38	WG1571846
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/06/2020 07:38	WG1571846
(S) Toluene-d8	*109*			*75.0-131*		*11/06/2020 07:38*	WG1571846
(S) Toluene-d8	*105*			*75.0-131*		*11/12/2020 13:46*	WG1574660
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*11/06/2020 07:38*	WG1571846
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*11/12/2020 13:46*	WG1574660
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*11/06/2020 07:38*	WG1571846
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/12/2020 13:46*	WG1574660

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	31500		594	5000	1	11/10/2020 19:35	WG1572755

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)	32500		102	1000	1	11/12/2020 09:03	WG1574999

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	5750		28.1	100	1	11/10/2020 13:44	WG1573384
Manganese	1050		0.704	5.00	1	11/10/2020 13:44	WG1573384

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	21100		2.87	6.78	10	11/10/2020 17:37	WG1574257
Ethane	352		0.296	1.29	1	11/10/2020 13:07	WG1573473
Ethene	139		0.422	1.27	1	11/10/2020 13:07	WG1573473

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/06/2020 07:58	WG1571846
Acrylonitrile	U		0.0760	0.500	1	11/06/2020 07:58	WG1571846
Benzene	0.113		0.0160	0.0400	1	11/06/2020 07:58	WG1571846
Bromobenzene	U		0.0420	0.500	1	11/06/2020 07:58	WG1571846
Bromodichloromethane	U		0.0315	0.100	1	11/06/2020 07:58	WG1571846
Bromoform	U		0.239	1.00	1	11/06/2020 07:58	WG1571846
Bromomethane	U		0.148	0.500	1	11/06/2020 07:58	WG1571846
n-Butylbenzene	U		0.153	0.500	1	11/06/2020 07:58	WG1571846
sec-Butylbenzene	U		0.101	0.500	1	11/06/2020 07:58	WG1571846
tert-Butylbenzene	U		0.0620	0.200	1	11/06/2020 07:58	WG1571846
Carbon tetrachloride	U		0.0432	0.200	1	11/06/2020 07:58	WG1571846
Chlorobenzene	U		0.0229	0.100	1	11/06/2020 07:58	WG1571846
Chlorodibromomethane	U		0.0180	0.100	1	11/06/2020 07:58	WG1571846
Chloroethane	U		0.0432	0.200	1	11/06/2020 07:58	WG1571846
Chloroform	U		0.0166	0.100	1	11/06/2020 07:58	WG1571846
Chloromethane	U		0.0556	0.500	1	11/06/2020 07:58	WG1571846
2-Chlorotoluene	U		0.0368	0.100	1	11/06/2020 07:58	WG1571846
4-Chlorotoluene	U		0.0452	0.200	1	11/06/2020 07:58	WG1571846
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/06/2020 07:58	WG1571846
1,2-Dibromoethane	U		0.0210	0.100	1	11/06/2020 07:58	WG1571846
Dibromomethane	U		0.0400	0.200	1	11/06/2020 07:58	WG1571846
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/06/2020 07:58	WG1571846
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/06/2020 07:58	WG1571846
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/06/2020 07:58	WG1571846
Dichlorodifluoromethane	U	J3	0.0327	0.100	1	11/06/2020 07:58	WG1571846
1,1-Dichloroethane	U		0.0230	0.100	1	11/06/2020 07:58	WG1571846
1,2-Dichloroethane	U		0.0190	0.100	1	11/06/2020 07:58	WG1571846
1,1-Dichloroethene	U		0.0200	0.100	1	11/06/2020 07:58	WG1571846
cis-1,2-Dichloroethene	0.853		0.0276	0.100	1	11/06/2020 07:58	WG1571846
trans-1,2-Dichloroethene	1.00		0.0572	0.200	1	11/06/2020 07:58	WG1571846
1,2-Dichloropropane	U		0.0508	0.200	1	11/06/2020 07:58	WG1571846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/06/2020 07:58	WG1571846
1,3-Dichloropropane	U		0.0700	0.200	1	11/06/2020 07:58	WG1571846
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/06/2020 07:58	WG1571846
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/06/2020 07:58	WG1571846
2,2-Dichloropropane	U		0.0317	0.100	1	11/06/2020 07:58	WG1571846
Di-isopropyl ether	U		0.0140	0.0400	1	11/06/2020 07:58	WG1571846
Ethylbenzene	U		0.0212	0.100	1	11/06/2020 07:58	WG1571846
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/06/2020 07:58	WG1571846
Isopropylbenzene	U		0.0345	0.100	1	11/06/2020 07:58	WG1571846
p-Isopropyltoluene	U		0.0932	0.200	1	11/06/2020 07:58	WG1571846
2-Butanone (MEK)	U		0.500	1.00	1	11/06/2020 07:58	WG1571846
Methylene Chloride	U		0.265	1.00	1	11/06/2020 07:58	WG1571846
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/06/2020 07:58	WG1571846
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/06/2020 07:58	WG1571846
Naphthalene	U		0.124	0.500	1	11/06/2020 07:58	WG1571846
n-Propylbenzene	U		0.0472	0.200	1	11/06/2020 07:58	WG1571846
Styrene	U		0.109	0.500	1	11/06/2020 07:58	WG1571846
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/06/2020 07:58	WG1571846
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/06/2020 07:58	WG1571846
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/06/2020 07:58	WG1571846
Tetrachloroethene	6.26		0.0280	0.100	1	11/06/2020 07:58	WG1571846
Toluene	0.123	J	0.0500	0.200	1	11/06/2020 07:58	WG1571846
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/06/2020 07:58	WG1571846
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/06/2020 07:58	WG1571846
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/06/2020 07:58	WG1571846
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/06/2020 07:58	WG1571846
Trichloroethene	1.78		0.0160	0.0400	1	11/06/2020 07:58	WG1571846
Trichlorofluoromethane	U		0.0200	0.100	1	11/06/2020 07:58	WG1571846
1,2,3-Trichloropropane	U		0.204	0.500	1	11/06/2020 07:58	WG1571846
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/06/2020 07:58	WG1571846
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/06/2020 07:58	WG1571846
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/06/2020 07:58	WG1571846
Vinyl chloride	5.57		0.0273	0.100	1	11/06/2020 07:58	WG1571846
Xylenes, Total	U		0.191	0.260	1	11/06/2020 07:58	WG1571846
Ethyl Ether	U		0.0170	0.100	1	11/06/2020 07:58	WG1571846
Tetrahydrofuran	U	J3	0.0900	0.500	1	11/06/2020 07:58	WG1571846
Iodomethane	U		0.242	0.500	1	11/06/2020 07:58	WG1571846
Allyl chloride	U		0.580	1.00	1	11/06/2020 07:58	WG1571846
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/06/2020 07:58	WG1571846
(S) Toluene-d8	*107*			*75.0-131*		*11/06/2020 07:58*	WG1571846
(S) 4-Bromofluorobenzene	*98.6*			*67.0-138*		*11/06/2020 07:58*	WG1571846
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*11/06/2020 07:58*	WG1571846

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	737	J	594	5000	1	11/10/2020 19:48	WG1572755

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)	59500		102	1000	1	11/12/2020 09:30	WG1574999

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	26200		28.1	100	1	11/10/2020 13:47	WG1573384
Manganese	3780		0.704	5.00	1	11/10/2020 13:47	WG1573384

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	26500		2.87	6.78	10	11/10/2020 17:42	WG1574257
Ethane	382		0.296	1.29	1	11/10/2020 13:10	WG1573473
Ethene	495		0.422	1.27	1	11/10/2020 13:10	WG1573473

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	12.8	J0	0.548	1.00	1	11/06/2020 08:17	WG1571846
Acrylonitrile	U		0.0760	0.500	1	11/06/2020 08:17	WG1571846
Benzene	0.282		0.0160	0.0400	1	11/06/2020 08:17	WG1571846
Bromobenzene	U		0.0420	0.500	1	11/06/2020 08:17	WG1571846
Bromodichloromethane	U		0.0315	0.100	1	11/06/2020 08:17	WG1571846
Bromoform	U		0.239	1.00	1	11/06/2020 08:17	WG1571846
Bromomethane	U		0.148	0.500	1	11/06/2020 08:17	WG1571846
n-Butylbenzene	U		0.153	0.500	1	11/06/2020 08:17	WG1571846
sec-Butylbenzene	U		0.101	0.500	1	11/06/2020 08:17	WG1571846
tert-Butylbenzene	U		0.0620	0.200	1	11/06/2020 08:17	WG1571846
Carbon tetrachloride	U		0.0432	0.200	1	11/06/2020 08:17	WG1571846
Chlorobenzene	U		0.0229	0.100	1	11/06/2020 08:17	WG1571846
Chlorodibromomethane	U		0.0180	0.100	1	11/06/2020 08:17	WG1571846
Chloroethane	U		0.0432	0.200	1	11/06/2020 08:17	WG1571846
Chloroform	U		0.0166	0.100	1	11/06/2020 08:17	WG1571846
Chloromethane	7.95		0.0556	0.500	1	11/06/2020 08:17	WG1571846
2-Chlorotoluene	U		0.0368	0.100	1	11/06/2020 08:17	WG1571846
4-Chlorotoluene	U		0.0452	0.200	1	11/06/2020 08:17	WG1571846
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/06/2020 08:17	WG1571846
1,2-Dibromoethane	U		0.0210	0.100	1	11/06/2020 08:17	WG1571846
Dibromomethane	U		0.0400	0.200	1	11/06/2020 08:17	WG1571846
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/06/2020 08:17	WG1571846
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/06/2020 08:17	WG1571846
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/06/2020 08:17	WG1571846
Dichlorodifluoromethane	U	J3	0.0327	0.100	1	11/06/2020 08:17	WG1571846
1,1-Dichloroethane	U		0.0230	0.100	1	11/06/2020 08:17	WG1571846
1,2-Dichloroethane	U		0.0190	0.100	1	11/06/2020 08:17	WG1571846
1,1-Dichloroethene	4.54		0.0200	0.100	1	11/06/2020 08:17	WG1571846
cis-1,2-Dichloroethene	54.3		2.76	10.0	100	11/12/2020 14:06	WG1574660
trans-1,2-Dichloroethene	44.0		0.0572	0.200	1	11/06/2020 08:17	WG1571846
1,2-Dichloropropane	U		0.0508	0.200	1	11/06/2020 08:17	WG1571846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/06/2020 08:17	WG1571846
1,3-Dichloropropane	U		0.0700	0.200	1	11/06/2020 08:17	WG1571846
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/06/2020 08:17	WG1571846
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/06/2020 08:17	WG1571846
2,2-Dichloropropane	U		0.0317	0.100	1	11/06/2020 08:17	WG1571846
Di-isopropyl ether	U		0.0140	0.0400	1	11/06/2020 08:17	WG1571846
Ethylbenzene	0.0700	J	0.0212	0.100	1	11/06/2020 08:17	WG1571846
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/06/2020 08:17	WG1571846
Isopropylbenzene	U		0.0345	0.100	1	11/06/2020 08:17	WG1571846
p-Isopropyltoluene	U		0.0932	0.200	1	11/06/2020 08:17	WG1571846
2-Butanone (MEK)	3.29	J0	0.500	1.00	1	11/06/2020 08:17	WG1571846
Methylene Chloride	U		0.265	1.00	1	11/06/2020 08:17	WG1571846
4-Methyl-2-pentanone (MIBK)	0.672	J	0.400	1.00	1	11/06/2020 08:17	WG1571846
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/06/2020 08:17	WG1571846
Naphthalene	U		0.124	0.500	1	11/06/2020 08:17	WG1571846
n-Propylbenzene	U		0.0472	0.200	1	11/06/2020 08:17	WG1571846
Styrene	U		0.109	0.500	1	11/06/2020 08:17	WG1571846
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/06/2020 08:17	WG1571846
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/06/2020 08:17	WG1571846
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/06/2020 08:17	WG1571846
Tetrachloroethene	1.41	J0	0.0280	0.100	1	11/06/2020 08:17	WG1571846
Toluene	0.524		0.0500	0.200	1	11/06/2020 08:17	WG1571846
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/06/2020 08:17	WG1571846
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/06/2020 08:17	WG1571846
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/06/2020 08:17	WG1571846
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/06/2020 08:17	WG1571846
Trichloroethene	0.895		0.0160	0.0400	1	11/06/2020 08:17	WG1571846
Trichlorofluoromethane	U		0.0200	0.100	1	11/06/2020 08:17	WG1571846
1,2,3-Trichloropropane	U		0.204	0.500	1	11/06/2020 08:17	WG1571846
1,2,4-Trimethylbenzene	0.114	J	0.0464	0.200	1	11/06/2020 08:17	WG1571846
1,2,3-Trimethylbenzene	0.0670	J	0.0460	0.200	1	11/06/2020 08:17	WG1571846
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/06/2020 08:17	WG1571846
Vinyl chloride	15.3		2.73	10.0	100	11/12/2020 14:06	WG1574660
Xylenes, Total	0.414		0.191	0.260	1	11/06/2020 08:17	WG1571846
Ethyl Ether	U		0.0170	0.100	1	11/06/2020 08:17	WG1571846
Tetrahydrofuran	U	J3	0.0900	0.500	1	11/06/2020 08:17	WG1571846
Iodomethane	U		0.242	0.500	1	11/06/2020 08:17	WG1571846
Allyl chloride	U		0.580	1.00	1	11/06/2020 08:17	WG1571846
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/06/2020 08:17	WG1571846
(S) Toluene-d8	*106*			*75.0-131*		*11/06/2020 08:17*	WG1571846
(S) Toluene-d8	*105*			*75.0-131*		*11/12/2020 14:06*	WG1574660
(S) 4-Bromofluorobenzene	*98.9*			*67.0-138*		*11/06/2020 08:17*	WG1571846
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*11/12/2020 14:06*	WG1574660
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*11/06/2020 08:17*	WG1571846
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/12/2020 14:06*	WG1574660

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	49700		2970	25000	5	11/10/2020 20:00	WG1572755

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)	19300		102	1000	1	11/12/2020 09:50	WG1574999

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	4320		28.1	100	1	11/10/2020 13:50	WG1573384
Manganese	1040		0.704	5.00	1	11/10/2020 13:50	WG1573384

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	14800		2.87	6.78	10	11/10/2020 17:45	WG1574257
Ethane	44.0		0.296	1.29	1	11/10/2020 13:14	WG1573473
Ethene	2390		0.422	1.27	1	11/10/2020 13:14	WG1573473

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		5.48	10.0	10	11/06/2020 09:33	WG1571846
Acrylonitrile	U		0.760	5.00	10	11/06/2020 09:33	WG1571846
Benzene	0.290	J	0.160	0.400	10	11/06/2020 09:33	WG1571846
Bromobenzene	U		0.420	5.00	10	11/06/2020 09:33	WG1571846
Bromodichloromethane	U		0.315	1.00	10	11/06/2020 09:33	WG1571846
Bromoform	U		2.39	10.0	10	11/06/2020 09:33	WG1571846
Bromomethane	U		1.48	5.00	10	11/06/2020 09:33	WG1571846
n-Butylbenzene	U		1.53	5.00	10	11/06/2020 09:33	WG1571846
sec-Butylbenzene	U		1.01	5.00	10	11/06/2020 09:33	WG1571846
tert-Butylbenzene	U		0.620	2.00	10	11/06/2020 09:33	WG1571846
Carbon tetrachloride	U		0.432	2.00	10	11/06/2020 09:33	WG1571846
Chlorobenzene	U		0.229	1.00	10	11/06/2020 09:33	WG1571846
Chlorodibromomethane	U		0.180	1.00	10	11/06/2020 09:33	WG1571846
Chloroethane	U		0.432	2.00	10	11/06/2020 09:33	WG1571846
Chloroform	U		0.166	1.00	10	11/06/2020 09:33	WG1571846
Chloromethane	U		0.556	5.00	10	11/06/2020 09:33	WG1571846
2-Chlorotoluene	U		0.368	1.00	10	11/06/2020 09:33	WG1571846
4-Chlorotoluene	U		0.452	2.00	10	11/06/2020 09:33	WG1571846
1,2-Dibromo-3-Chloropropane	U		2.04	10.0	10	11/06/2020 09:33	WG1571846
1,2-Dibromoethane	U		0.210	1.00	10	11/06/2020 09:33	WG1571846
Dibromomethane	U		0.400	2.00	10	11/06/2020 09:33	WG1571846
1,2-Dichlorobenzene	U		0.580	2.00	10	11/06/2020 09:33	WG1571846
1,3-Dichlorobenzene	U		0.680	2.00	10	11/06/2020 09:33	WG1571846
1,4-Dichlorobenzene	U		0.788	2.00	10	11/06/2020 09:33	WG1571846
Dichlorodifluoromethane	U	J3	0.327	1.00	10	11/06/2020 09:33	WG1571846
1,1-Dichloroethane	U		0.230	1.00	10	11/06/2020 09:33	WG1571846
1,2-Dichloroethane	U		0.190	1.00	10	11/06/2020 09:33	WG1571846
1,1-Dichloroethene	30.7		0.200	1.00	10	11/06/2020 09:33	WG1571846
cis-1,2-Dichloroethene	9090		6.90	25.0	250	11/12/2020 14:27	WG1574660
trans-1,2-Dichloroethene	160		0.572	2.00	10	11/06/2020 09:33	WG1571846
1,2-Dichloropropane	U		0.508	2.00	10	11/06/2020 09:33	WG1571846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.280	1.00	10	11/06/2020 09:33	WG1571846
1,3-Dichloropropane	U		0.700	2.00	10	11/06/2020 09:33	WG1571846
cis-1,3-Dichloropropene	U		0.271	1.00	10	11/06/2020 09:33	WG1571846
trans-1,3-Dichloropropene	U		0.612	2.00	10	11/06/2020 09:33	WG1571846
2,2-Dichloropropane	U		0.317	1.00	10	11/06/2020 09:33	WG1571846
Di-isopropyl ether	U		0.140	0.400	10	11/06/2020 09:33	WG1571846
Ethylbenzene	U		0.212	1.00	10	11/06/2020 09:33	WG1571846
Hexachloro-1,3-butadiene	U		5.08	10.0	10	11/06/2020 09:33	WG1571846
Isopropylbenzene	U		0.345	1.00	10	11/06/2020 09:33	WG1571846
p-Isopropyltoluene	U		0.932	2.00	10	11/06/2020 09:33	WG1571846
2-Butanone (MEK)	U		5.00	10.0	10	11/06/2020 09:33	WG1571846
Methylene Chloride	U		2.65	10.0	10	11/06/2020 09:33	WG1571846
4-Methyl-2-pentanone (MIBK)	U		4.00	10.0	10	11/06/2020 09:33	WG1571846
Methyl tert-butyl ether	U		0.118	0.400	10	11/06/2020 09:33	WG1571846
Naphthalene	U		1.24	5.00	10	11/06/2020 09:33	WG1571846
n-Propylbenzene	U		0.472	2.00	10	11/06/2020 09:33	WG1571846
Styrene	U		1.09	5.00	10	11/06/2020 09:33	WG1571846
1,1,1,2-Tetrachloroethane	U		0.200	1.00	10	11/06/2020 09:33	WG1571846
1,1,2,2-Tetrachloroethane	U		0.156	1.00	10	11/06/2020 09:33	WG1571846
1,1,2-Trichlorotrifluoroethane	U		0.270	1.00	10	11/06/2020 09:33	WG1571846
Tetrachloroethene	17.6	J0	0.280	1.00	10	11/06/2020 09:33	WG1571846
Toluene	U		0.500	2.00	10	11/06/2020 09:33	WG1571846
1,2,3-Trichlorobenzene	U	C4	0.250	5.00	10	11/06/2020 09:33	WG1571846
1,2,4-Trichlorobenzene	U		1.93	5.00	10	11/06/2020 09:33	WG1571846
1,1,1-Trichloroethane	U		0.110	1.00	10	11/06/2020 09:33	WG1571846
1,1,2-Trichloroethane	U		0.353	1.00	10	11/06/2020 09:33	WG1571846
Trichloroethene	18.3		0.160	0.400	10	11/06/2020 09:33	WG1571846
Trichlorofluoromethane	U		0.200	1.00	10	11/06/2020 09:33	WG1571846
1,2,3-Trichloropropane	U		2.04	5.00	10	11/06/2020 09:33	WG1571846
1,2,4-Trimethylbenzene	U		0.464	2.00	10	11/06/2020 09:33	WG1571846
1,2,3-Trimethylbenzene	U		0.460	2.00	10	11/06/2020 09:33	WG1571846
1,3,5-Trimethylbenzene	U		0.432	2.00	10	11/06/2020 09:33	WG1571846
Vinyl chloride	11500		6.82	25.0	250	11/12/2020 14:27	WG1574660
Xylenes, Total	U		1.91	2.60	10	11/06/2020 09:33	WG1571846
Ethyl Ether	U		0.170	1.00	10	11/06/2020 09:33	WG1571846
Tetrahydrofuran	U	J3	0.900	5.00	10	11/06/2020 09:33	WG1571846
Iodomethane	U		2.42	5.00	10	11/06/2020 09:33	WG1571846
Allyl chloride	U		5.80	10.0	10	11/06/2020 09:33	WG1571846
Trans-1,4-Dichloro-2-butene	U		0.560	2.00	10	11/06/2020 09:33	WG1571846
(S) Toluene-d8	*107*			*75.0-131*		*11/06/2020 09:33*	WG1571846
(S) Toluene-d8	*105*			*75.0-131*		*11/12/2020 14:27*	WG1574660
(S) 4-Bromofluorobenzene	*98.2*			*67.0-138*		*11/06/2020 09:33*	WG1571846
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*11/12/2020 14:27*	WG1574660
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*11/06/2020 09:33*	WG1571846
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/12/2020 14:27*	WG1574660

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.02		0.548	1.00	1	11/10/2020 10:38	WG1573882
Acrylonitrile	U		0.0760	0.500	1	11/10/2020 10:38	WG1573882
Benzene	U		0.0160	0.0400	1	11/10/2020 10:38	WG1573882
Bromobenzene	U		0.0420	0.500	1	11/10/2020 10:38	WG1573882
Bromodichloromethane	U		0.0315	0.100	1	11/10/2020 10:38	WG1573882
Bromoform	U		0.239	1.00	1	11/10/2020 10:38	WG1573882
Bromomethane	U		0.148	0.500	1	11/10/2020 10:38	WG1573882
n-Butylbenzene	U		0.153	0.500	1	11/10/2020 10:38	WG1573882
sec-Butylbenzene	U		0.101	0.500	1	11/10/2020 10:38	WG1573882
tert-Butylbenzene	U		0.0620	0.200	1	11/10/2020 10:38	WG1573882
Carbon tetrachloride	U		0.0432	0.200	1	11/10/2020 10:38	WG1573882
Chlorobenzene	U		0.0229	0.100	1	11/10/2020 10:38	WG1573882
Chlorodibromomethane	U		0.0180	0.100	1	11/10/2020 10:38	WG1573882
Chloroethane	U		0.0432	0.200	1	11/10/2020 10:38	WG1573882
Chloroform	U		0.0166	0.100	1	11/10/2020 10:38	WG1573882
Chloromethane	U		0.0556	0.500	1	11/10/2020 10:38	WG1573882
2-Chlorotoluene	U		0.0368	0.100	1	11/10/2020 10:38	WG1573882
4-Chlorotoluene	U		0.0452	0.200	1	11/10/2020 10:38	WG1573882
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/10/2020 10:38	WG1573882
1,2-Dibromoethane	U		0.0210	0.100	1	11/10/2020 10:38	WG1573882
Dibromomethane	U		0.0400	0.200	1	11/10/2020 10:38	WG1573882
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/10/2020 10:38	WG1573882
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/10/2020 10:38	WG1573882
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/10/2020 10:38	WG1573882
Dichlorodifluoromethane	U		0.0327	0.100	1	11/10/2020 10:38	WG1573882
1,1-Dichloroethane	U		0.0230	0.100	1	11/10/2020 10:38	WG1573882
1,2-Dichloroethane	U		0.0190	0.100	1	11/10/2020 10:38	WG1573882
1,1-Dichloroethene	U		0.0200	0.100	1	11/10/2020 10:38	WG1573882
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/10/2020 10:38	WG1573882
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/10/2020 10:38	WG1573882
1,2-Dichloropropane	U		0.0508	0.200	1	11/10/2020 10:38	WG1573882
1,1-Dichloropropene	U		0.0280	0.100	1	11/10/2020 10:38	WG1573882
1,3-Dichloropropane	U		0.0700	0.200	1	11/10/2020 10:38	WG1573882
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/10/2020 10:38	WG1573882
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/10/2020 10:38	WG1573882
2,2-Dichloropropane	U		0.0317	0.100	1	11/10/2020 10:38	WG1573882
Di-isopropyl ether	U		0.0140	0.0400	1	11/10/2020 10:38	WG1573882
Ethylbenzene	U		0.0212	0.100	1	11/10/2020 10:38	WG1573882
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/10/2020 10:38	WG1573882
Isopropylbenzene	U		0.0345	0.100	1	11/10/2020 10:38	WG1573882
p-Isopropyltoluene	U		0.0932	0.200	1	11/10/2020 10:38	WG1573882
2-Butanone (MEK)	U		0.500	1.00	1	11/10/2020 10:38	WG1573882
Methylene Chloride	U		0.265	1.00	1	11/10/2020 10:38	WG1573882
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/10/2020 10:38	WG1573882
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/10/2020 10:38	WG1573882
Naphthalene	U		0.124	0.500	1	11/10/2020 10:38	WG1573882
n-Propylbenzene	U		0.0472	0.200	1	11/10/2020 10:38	WG1573882
Styrene	U		0.109	0.500	1	11/10/2020 10:38	WG1573882
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/10/2020 10:38	WG1573882
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/10/2020 10:38	WG1573882
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2020 10:38	WG1573882
Tetrachloroethene	U		0.0280	0.100	1	11/10/2020 10:38	WG1573882
Toluene	U		0.0500	0.200	1	11/10/2020 10:38	WG1573882
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/10/2020 10:38	WG1573882
1,2,4-Trichlorobenzene	U	C4	0.193	0.500	1	11/10/2020 10:38	WG1573882
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2020 10:38	WG1573882

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2020 10:38	WG1573882
Trichloroethene	U		0.0160	0.0400	1	11/10/2020 10:38	WG1573882
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2020 10:38	WG1573882
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2020 10:38	WG1573882
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/10/2020 10:38	WG1573882
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2020 10:38	WG1573882
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2020 10:38	WG1573882
Vinyl chloride	U		0.0273	0.100	1	11/10/2020 10:38	WG1573882
Xylenes, Total	U		0.191	0.260	1	11/10/2020 10:38	WG1573882
Ethyl Ether	U		0.0170	0.100	1	11/10/2020 10:38	WG1573882
Tetrahydrofuran	U	C4	0.0900	0.500	1	11/10/2020 10:38	WG1573882
Iodomethane	U		0.242	0.500	1	11/10/2020 10:38	WG1573882
Allyl chloride	U		0.580	1.00	1	11/10/2020 10:38	WG1573882
Trans-1,4-Dichloro-2-butene	U	C4	0.0560	0.200	1	11/10/2020 10:38	WG1573882
(S) Toluene-d8	*105*			*75.0-131*		*11/10/2020 10:38*	WG1573882
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*11/10/2020 10:38*	WG1573882
(S) 1,2-Dichloroethane-d4	*97.2*			*70.0-130*		*11/10/2020 10:38*	WG1573882

Method Blank (MB)

(MB) R3591861-1 11/10/20 10:11

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Sulfate	U		594	5000

L1281775-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1281775-01 11/10/20 18:06 • (DUP) R3591861-6 11/10/20 18:18

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	55500	60700	1	8.98		15

L1281599-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1281599-01 11/10/20 20:39 • (DUP) R3591861-8 11/11/20 11:45

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	211000	213000	5	0.589		15

Laboratory Control Sample (LCS)

(LCS) R3591861-2 11/10/20 10:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40000	39800	99.4	80.0-120	

L1281599-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1281599-01 11/10/20 13:25 • (MS) R3591861-4 11/10/20 13:50 • (MSD) R3591861-5 11/10/20 14:03

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 %
Sulfate	50000	230000	283000	280000	106	100	1	80.0-120	E	E	1.13	15

L1281775-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1281775-01 11/10/20 18:06 • (MS) R3591861-7 11/10/20 18:31

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	50000	55500	106000	101	1	80.0-120	E

Method Blank (MB)

(MB) R3591964-1 11/11/20 11:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	258	J	102	1000

L1281775-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1281775-02 11/11/20 20:35 • (DUP) R3591964-8 11/11/20 20:50

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC	31200	31300	1	0.448		20

Laboratory Control Sample (LCS)

(LCS) R3591964-2 11/11/20 11:54

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC	75000	73800	98.4	85.0-115	

L1281599-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1281599-09 11/11/20 16:09 • (MS) R3591964-6 11/11/20 16:44 • (MSD) R3591964-7 11/11/20 16:58

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	6060	55000	55000	97.8	97.9	1	80.0-120			0.0364	20

Method Blank (MB)

(MB) R3592271-1 11/11/20 23:07

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	482	J	102	1000

L1279319-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1279319-04 11/12/20 03:40 • (DUP) R3592271-5 11/12/20 03:59

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	18700	18000	1	3.44		20

L1279319-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1279319-09 11/12/20 05:30 • (DUP) R3592271-6 11/12/20 05:48

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	9380	9450	1	0.712		20

Laboratory Control Sample (LCS)

(LCS) R3592271-2 11/11/20 23:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	78700	105	85.0-115	

L1279134-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1279134-01 11/11/20 23:52 • (MS) R3592271-3 11/12/20 00:19 • (MSD) R3592271-4 11/12/20 00:39

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 (Total Organic Carbon)	50000	1530	50900	54800	98.6	106	1	80.0-120			7.42	20

L1281775-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1281775-05 11/12/20 07:44 • (MS) R3592271-7 11/12/20 08:14 • (MSD) R3592271-8 11/12/20 08:37

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 (Total Organic Carbon)	50000	8820	61800	63600	106	110	1	80.0-120			2.84	20

Method Blank (MB)

(MB) R3591638-1 11/10/20 23:29

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

Laboratory Control Sample (LCS)

(LCS) R3591638-2 11/10/20 23:32

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	5000	4960	99.2	80.0-120	
Manganese	50.0	51.6	103	80.0-120	

L1281775-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1281775-02 11/10/20 23:36 • (MS) R3591638-4 11/10/20 23:42 • (MSD) R3591638-5 11/10/20 23:45

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	5000	10600	15100	15500	90.5	97.0	1	75.0-125			2.12	20
Manganese	50.0	2640	2680	2680	66.6	72.3	1	75.0-125	V	V	0.106	20

Method Blank (MB)

(MB) R3591436-1 11/10/20 11:15

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

Laboratory Control Sample (LCS)

(LCS) R3591436-2 11/10/20 11:18

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	5000	5230	105	80.0-120	
Manganese	50.0	52.4	105	80.0-120	

L1279319-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1279319-01 11/10/20 11:22 • (MS) R3591436-4 11/10/20 11:28 • (MSD) R3591436-5 11/10/20 11:31

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 %
Manganese	50.0	414	457	456	87.2	84.8	1	75.0-125			0.256	20

Method Blank (MB)

(MB) R3591447-2 11/10/20 11:18

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

L1281722-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1281722-04 11/10/20 11:48 • (DUP) R3591447-3 11/10/20 13:02

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

L1282350-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1282350-01 11/10/20 13:17 • (DUP) R3591447-4 11/10/20 13:50

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) R3591447-1 11/10/20 11:01 • (LCSD) R3591447-9 11/10/20 14:12

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	70.1	70.0	103	103	85.0-115			0.143	20
Ethane	129	135	137	105	106	85.0-115			1.47	20
Ethene	127	133	134	105	106	85.0-115			0.749	20

L1281722-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1281722-03 11/10/20 11:45 • (MS) R3591447-5 11/10/20 13:52 • (MSD) R3591447-6 11/10/20 13:55

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 %
Methane	67.8	U	77.4	110	114	162	1	85.0-115		J3 J5	34.8	20
Ethane	129	U	148	214	115	166	1	85.0-115		J3 J5	36.5	20
Ethene	127	U	148	210	117	165	1	85.0-115	J5	J3 J5	34.6	20

L1282350-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1282350-05 11/10/20 13:43 • (MS) R3591447-7 11/10/20 13:57 • (MSD) R3591447-8 11/10/20 13:59

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	1340	1300	1330	0.000	0.000	1	85.0-115	V	V	2.28	20
Ethane	129	492	603	672	86.0	140	1	85.0-115		J5	10.8	20
Ethene	127	2600	2570	2650	0.000	39.4	1	85.0-115	V	V	3.07	20

Method Blank (MB)

(MB) R3591574-1 11/10/20 17:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Methane	U		0.287	0.678

L1281775-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1281775-01 11/10/20 17:27 • (DUP) R3591574-2 11/10/20 17:40

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	21700	22900	10	5.38		20

Laboratory Control Sample (LCS)

(LCS) R3591574-3 11/10/20 17:57

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Methane	67.8	73.7	109	85.0-115	

Method Blank (MB)

(MB) R3590149-3 11/06/20 03:12

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

Method Blank (MB)

(MB) R3590149-3 11/06/20 03:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*108*			*75.0-131*
(S) 4-Bromofluorobenzene	*99.2*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*

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

(LCS) R3590149-1 11/06/20 01:37 • (LCSD) R3590149-2 11/06/20 01:56

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	33.8	36.8	135	147	10.0-160			8.50	31
Acrylonitrile	25.0	33.3	33.3	133	133	45.0-153			0.000	22
Benzene	5.00	5.15	5.04	103	101	70.0-123			2.16	20
Bromobenzene	5.00	5.41	5.56	108	111	73.0-121			2.73	20
Bromodichloromethane	5.00	5.30	5.24	106	105	73.0-121			1.14	20
Bromoform	5.00	5.81	6.15	116	123	64.0-132			5.69	20
Bromomethane	5.00	4.31	4.48	86.2	89.6	56.0-147			3.87	20
n-Butylbenzene	5.00	5.25	5.17	105	103	68.0-135			1.54	20
sec-Butylbenzene	5.00	5.46	5.48	109	110	74.0-130			0.366	20
tert-Butylbenzene	5.00	5.44	5.37	109	107	75.0-127			1.30	20
Carbon tetrachloride	5.00	5.89	5.76	118	115	66.0-128			2.23	20
Chlorobenzene	5.00	5.54	5.52	111	110	76.0-128			0.362	20
Chlorodibromomethane	5.00	5.18	5.34	104	107	74.0-127			3.04	20
Chloroethane	5.00	4.48	4.21	89.6	84.2	61.0-134			6.21	20
Chloroform	5.00	5.35	5.22	107	104	72.0-123			2.46	20
Chloromethane	5.00	5.44	4.69	109	93.8	51.0-138			14.8	20
2-Chlorotoluene	5.00	5.60	5.65	112	113	75.0-124			0.889	20
4-Chlorotoluene	5.00	5.35	5.41	107	108	75.0-124			1.12	20
1,2-Dibromo-3-Chloropropane	5.00	5.17	5.31	103	106	59.0-130			2.67	20
1,2-Dibromoethane	5.00	5.32	5.34	106	107	74.0-128			0.375	20
Dibromomethane	5.00	4.96	4.94	99.2	98.8	75.0-122			0.404	20
1,2-Dichlorobenzene	5.00	5.25	5.23	105	105	76.0-124			0.382	20
1,3-Dichlorobenzene	5.00	5.44	5.37	109	107	76.0-125			1.30	20
1,4-Dichlorobenzene	5.00	5.28	5.18	106	104	77.0-121			1.91	20
trans-1,4-Dichloro-2-butene	5.00	5.42	5.56	108	111	45.0-143			2.55	20
Dichlorodifluoromethane	5.00	6.64	5.32	133	106	43.0-156		J3	22.1	20
1,1-Dichloroethane	5.00	5.41	5.62	108	112	70.0-127			3.81	20
1,2-Dichloroethane	5.00	5.04	4.92	101	98.4	65.0-131			2.41	20
1,1-Dichloroethene	5.00	5.99	5.89	120	118	65.0-131			1.68	20
cis-1,2-Dichloroethene	5.00	5.60	5.58	112	112	73.0-125			0.358	20
trans-1,2-Dichloroethene	5.00	5.13	5.16	103	103	71.0-125			0.583	20
1,2-Dichloropropane	5.00	5.45	5.19	109	104	74.0-125			4.89	20
1,1-Dichloropropene	5.00	5.31	5.19	106	104	73.0-125			2.29	20
1,3-Dichloropropane	5.00	5.31	5.40	106	108	80.0-125			1.68	20
cis-1,3-Dichloropropene	5.00	5.29	4.98	106	99.6	76.0-127			6.04	20
trans-1,3-Dichloropropene	5.00	5.44	5.46	109	109	73.0-127			0.367	20
2,2-Dichloropropane	5.00	5.37	5.37	107	107	59.0-135			0.000	20
Di-isopropyl ether	5.00	5.64	5.77	113	115	60.0-136			2.28	20
Ethylbenzene	5.00	5.44	5.34	109	107	74.0-126			1.86	20
Ethyl ether	5.00	5.39	5.17	108	103	64.0-137			4.17	20

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

(LCS) R3590149-1 11/06/20 01:37 • (LCSD) R3590149-2 11/06/20 01:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	5.94	5.44	119	109	57.0-150			8.79	20
Iodomethane	25.0	29.0	30.3	116	121	74.0-134			4.38	20
Isopropylbenzene	5.00	5.68	5.59	114	112	72.0-127			1.60	20
p-Isopropyltoluene	5.00	5.36	5.43	107	109	72.0-133			1.30	20
2-Butanone (MEK)	25.0	37.7	33.6	151	134	30.0-160			11.5	24
Methylene Chloride	5.00	5.17	5.38	103	108	68.0-123			3.98	20
4-Methyl-2-pentanone (MIBK)	25.0	29.6	30.1	118	120	56.0-143			1.68	20
Methyl tert-butyl ether	5.00	5.36	5.37	107	107	66.0-132			0.186	20
Naphthalene	5.00	4.97	4.49	99.4	89.8	59.0-130			10.1	20
n-Propylbenzene	5.00	5.57	5.63	111	113	74.0-126			1.07	20
Styrene	5.00	5.23	5.35	105	107	72.0-127			2.27	20
1,1,1,2-Tetrachloroethane	5.00	5.69	5.73	114	115	74.0-129			0.701	20
1,1,2,2-Tetrachloroethane	5.00	4.94	4.96	98.8	99.2	68.0-128			0.404	20
Tetrachloroethene	5.00	6.34	6.10	127	122	70.0-136			3.86	20
Tetrahydrofuran	5.00	4.70	7.28	94.0	146	37.0-146		J3	43.1	24
Toluene	5.00	5.32	5.15	106	103	75.0-121			3.25	20
1,1,2-Trichlorotrifluoroethane	5.00	5.35	4.77	107	95.4	61.0-139			11.5	20
1,2,3-Trichlorobenzene	5.00	5.46	4.60	109	92.0	59.0-139			17.1	20
1,2,4-Trichlorobenzene	5.00	5.45	4.84	109	96.8	62.0-137			11.9	20
1,1,1-Trichloroethane	5.00	5.53	5.32	111	106	69.0-126			3.87	20
1,1,2-Trichloroethane	5.00	5.52	5.30	110	106	78.0-123			4.07	20
Trichloroethene	5.00	5.48	5.39	110	108	76.0-126			1.66	20
Trichlorofluoromethane	5.00	5.90	5.06	118	101	61.0-142			15.3	20
1,2,3-Trichloropropane	5.00	5.13	5.34	103	107	67.0-129			4.01	20
1,2,3-Trimethylbenzene	5.00	5.07	5.03	101	101	74.0-124			0.792	20
1,2,4-Trimethylbenzene	5.00	5.13	5.26	103	105	70.0-126			2.50	20
1,3,5-Trimethylbenzene	5.00	5.41	5.44	108	109	73.0-127			0.553	20
Vinyl chloride	5.00	4.96	4.71	99.2	94.2	63.0-134			5.17	20
Xylenes, Total	15.0	16.3	16.5	109	110	72.0-127			1.22	20
Allyl chloride	25.0	27.3	26.1	109	104	70.0-131			4.49	20
(S) Toluene-d8				*107*	*106*	*75.0-131*				
(S) 4-Bromofluorobenzene				*99.6*	*100*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*107*	*108*	*70.0-130*				

Method Blank (MB)

(MB) R3591762-3 11/10/20 08:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	0.107	J	0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100

Method Blank (MB)

(MB) R3591762-3 11/10/20 08:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	0.100	J	0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	0.211	J	0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	0.248	J	0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*104*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*95.2*			*70.0-130*

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

(LCS) R3591762-1 11/10/20 07:09 • (LCSD) R3591762-2 11/10/20 07:29

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	21.9	21.8	87.6	87.2	10.0-160			0.458	31
Acrylonitrile	25.0	24.4	25.3	97.6	101	45.0-153			3.62	22
Benzene	5.00	4.77	4.60	95.4	92.0	70.0-123			3.63	20
Bromobenzene	5.00	4.44	4.44	88.8	88.8	73.0-121			0.000	20
Bromodichloromethane	5.00	4.71	4.54	94.2	90.8	73.0-121			3.68	20
Bromoform	5.00	5.04	5.02	101	100	64.0-132			0.398	20
Bromomethane	5.00	4.72	4.68	94.4	93.6	56.0-147			0.851	20
n-Butylbenzene	5.00	4.61	4.73	92.2	94.6	68.0-135			2.57	20
sec-Butylbenzene	5.00	4.74	4.84	94.8	96.8	74.0-130			2.09	20
tert-Butylbenzene	5.00	4.87	4.78	97.4	95.6	75.0-127			1.87	20
Carbon tetrachloride	5.00	4.89	4.99	97.8	99.8	66.0-128			2.02	20
Chlorobenzene	5.00	4.93	4.85	98.6	97.0	76.0-128			1.64	20
Chlorodibromomethane	5.00	4.81	4.81	96.2	96.2	74.0-127			0.000	20
Chloroethane	5.00	4.12	4.44	82.4	88.8	61.0-134			7.48	20
Chloroform	5.00	4.78	4.77	95.6	95.4	72.0-123			0.209	20
Chloromethane	5.00	4.55	4.38	91.0	87.6	51.0-138			3.81	20
2-Chlorotoluene	5.00	4.58	4.57	91.6	91.4	75.0-124			0.219	20
4-Chlorotoluene	5.00	4.59	4.61	91.8	92.2	75.0-124			0.435	20
1,2-Dibromo-3-Chloropropane	5.00	4.75	5.03	95.0	101	59.0-130			5.73	20
1,2-Dibromoethane	5.00	4.99	5.00	99.8	100	74.0-128			0.200	20
Dibromomethane	5.00	4.96	4.96	99.2	99.2	75.0-122			0.000	20
1,2-Dichlorobenzene	5.00	4.90	4.93	98.0	98.6	76.0-124			0.610	20
1,3-Dichlorobenzene	5.00	4.80	4.83	96.0	96.6	76.0-125			0.623	20
1,4-Dichlorobenzene	5.00	4.77	4.77	95.4	95.4	77.0-121			0.000	20
trans-1,4-Dichloro-2-butene	5.00	2.71	2.70	54.2	54.0	45.0-143			0.370	20
Dichlorodifluoromethane	5.00	5.17	4.96	103	99.2	43.0-156			4.15	20
1,1-Dichloroethane	5.00	4.76	4.77	95.2	95.4	70.0-127			0.210	20
1,2-Dichloroethane	5.00	4.64	4.63	92.8	92.6	65.0-131			0.216	20
1,1-Dichloroethene	5.00	4.67	4.41	93.4	88.2	65.0-131			5.73	20
cis-1,2-Dichloroethene	5.00	4.94	4.91	98.8	98.2	73.0-125			0.609	20
trans-1,2-Dichloroethene	5.00	4.90	4.77	98.0	95.4	71.0-125			2.69	20
1,2-Dichloropropane	5.00	4.80	4.71	96.0	94.2	74.0-125			1.89	20
1,1-Dichloropropene	5.00	4.97	4.73	99.4	94.6	73.0-125			4.95	20
1,3-Dichloropropane	5.00	4.95	5.02	99.0	100	80.0-125			1.40	20
cis-1,3-Dichloropropene	5.00	4.91	4.73	98.2	94.6	76.0-127			3.73	20
trans-1,3-Dichloropropene	5.00	4.96	4.80	99.2	96.0	73.0-127			3.28	20
2,2-Dichloropropane	5.00	4.67	4.31	93.4	86.2	59.0-135			8.02	20
Di-isopropyl ether	5.00	4.52	4.69	90.4	93.8	60.0-136			3.69	20
Ethylbenzene	5.00	4.83	4.84	96.6	96.8	74.0-126			0.207	20
Ethyl ether	5.00	4.98	5.05	99.6	101	64.0-137			1.40	20

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

(LCS) R3591762-1 11/10/20 07:09 • (LCSD) R3591762-2 11/10/20 07:29

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	5.04	4.94	101	98.8	57.0-150			2.00	20
Iodomethane	25.0	23.4	24.5	93.6	98.0	74.0-134			4.59	20
Isopropylbenzene	5.00	4.77	4.94	95.4	98.8	72.0-127			3.50	20
p-Isopropyltoluene	5.00	4.77	4.90	95.4	98.0	72.0-133			2.69	20
2-Butanone (MEK)	25.0	24.4	25.1	97.6	100	30.0-160			2.83	24
Methylene Chloride	5.00	4.82	4.84	96.4	96.8	68.0-123			0.414	20
4-Methyl-2-pentanone (MIBK)	25.0	23.7	24.2	94.8	96.8	56.0-143			2.09	20
Methyl tert-butyl ether	5.00	4.51	4.90	90.2	98.0	66.0-132			8.29	20
Naphthalene	5.00	4.40	5.16	88.0	103	59.0-130			15.9	20
n-Propylbenzene	5.00	4.59	4.63	91.8	92.6	74.0-126			0.868	20
Styrene	5.00	4.89	4.90	97.8	98.0	72.0-127			0.204	20
1,1,1,2-Tetrachloroethane	5.00	5.02	5.02	100	100	74.0-129			0.000	20
1,1,2,2-Tetrachloroethane	5.00	4.57	4.59	91.4	91.8	68.0-128			0.437	20
Tetrachloroethene	5.00	5.08	4.86	102	97.2	70.0-136			4.43	20
Tetrahydrofuran	5.00	3.94	4.01	78.8	80.2	37.0-146			1.76	24
Toluene	5.00	4.82	4.71	96.4	94.2	75.0-121			2.31	20
1,1,2-Trichlorotrifluoroethane	5.00	4.48	4.77	89.6	95.4	61.0-139			6.27	20
1,2,3-Trichlorobenzene	5.00	4.34	5.23	86.8	105	59.0-139			18.6	20
1,2,4-Trichlorobenzene	5.00	4.61	5.20	92.2	104	62.0-137			12.0	20
1,1,1-Trichloroethane	5.00	4.94	5.16	98.8	103	69.0-126			4.36	20
1,1,2-Trichloroethane	5.00	5.02	5.00	100	100	78.0-123			0.399	20
Trichloroethene	5.00	4.98	4.78	99.6	95.6	76.0-126			4.10	20
Trichlorofluoromethane	5.00	4.47	4.20	89.4	84.0	61.0-142			6.23	20
1,2,3-Trichloropropane	5.00	4.85	5.09	97.0	102	67.0-129			4.83	20
1,2,3-Trimethylbenzene	5.00	4.57	4.69	91.4	93.8	74.0-124			2.59	20
1,2,4-Trimethylbenzene	5.00	4.71	4.76	94.2	95.2	70.0-126			1.06	20
1,3,5-Trimethylbenzene	5.00	4.67	4.69	93.4	93.8	73.0-127			0.427	20
Vinyl chloride	5.00	4.58	4.29	91.6	85.8	63.0-134			6.54	20
Xylenes, Total	15.0	14.6	14.3	97.3	95.3	72.0-127			2.08	20
Allyl chloride	25.0	23.4	23.2	93.6	92.8	70.0-131			0.858	20
(S) Toluene-d8				*105*	*105*	*75.0-131*				
(S) 4-Bromofluorobenzene				*106*	*107*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*97.1*	*98.6*	*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) R3592676-2 11/12/20 09:56

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	0.154	J	0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100

Method Blank (MB)

(MB) R3592676-2 11/12/20 09:56

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	0.178	J	0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	0.202	J	0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	0.252	J	0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*105*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*97.7*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3592676-1 11/12/20 09:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	22.1	88.4	10.0-160	
Acrylonitrile	25.0	25.0	100	45.0-153	
Benzene	5.00	4.58	91.6	70.0-123	
Bromobenzene	5.00	4.26	85.2	73.0-121	
Bromodichloromethane	5.00	4.62	92.4	73.0-121	
Bromoform	5.00	5.03	101	64.0-132	
Bromomethane	5.00	4.39	87.8	56.0-147	
n-Butylbenzene	5.00	4.83	96.6	68.0-135	
sec-Butylbenzene	5.00	4.71	94.2	74.0-130	
tert-Butylbenzene	5.00	4.86	97.2	75.0-127	
Carbon tetrachloride	5.00	5.33	107	66.0-128	
Chlorobenzene	5.00	4.85	97.0	76.0-128	
Chlorodibromomethane	5.00	4.81	96.2	74.0-127	
Chloroethane	5.00	4.33	86.6	61.0-134	
Chloroform	5.00	4.76	95.2	72.0-123	
Chloromethane	5.00	4.70	94.0	51.0-138	
2-Chlorotoluene	5.00	4.44	88.8	75.0-124	
4-Chlorotoluene	5.00	4.41	88.2	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	5.03	101	59.0-130	
1,2-Dibromoethane	5.00	4.99	99.8	74.0-128	
Dibromomethane	5.00	4.91	98.2	75.0-122	
1,2-Dichlorobenzene	5.00	4.81	96.2	76.0-124	
1,3-Dichlorobenzene	5.00	4.81	96.2	76.0-125	
1,4-Dichlorobenzene	5.00	4.66	93.2	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	2.44	48.8	45.0-143	
Dichlorodifluoromethane	5.00	5.20	104	43.0-156	
1,1-Dichloroethane	5.00	4.74	94.8	70.0-127	
1,2-Dichloroethane	5.00	4.92	98.4	65.0-131	
1,1-Dichloroethene	5.00	4.58	91.6	65.0-131	
cis-1,2-Dichloroethene	5.00	4.80	96.0	73.0-125	
trans-1,2-Dichloroethene	5.00	4.94	98.8	71.0-125	
1,2-Dichloropropane	5.00	4.81	96.2	74.0-125	
1,1-Dichloropropene	5.00	4.72	94.4	73.0-125	
1,3-Dichloropropane	5.00	4.84	96.8	80.0-125	
cis-1,3-Dichloropropene	5.00	4.86	97.2	76.0-127	
trans-1,3-Dichloropropene	5.00	4.85	97.0	73.0-127	
2,2-Dichloropropane	5.00	5.54	111	59.0-135	
Di-isopropyl ether	5.00	4.79	95.8	60.0-136	
Ethylbenzene	5.00	4.78	95.6	74.0-126	
Ethyl ether	5.00	5.20	104	64.0-137	

Laboratory Control Sample (LCS)

(LCS) R3592676-1 11/12/20 09:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexachloro-1,3-butadiene	5.00	5.31	106	57.0-150	
Iodomethane	25.0	25.1	100	74.0-134	
Isopropylbenzene	5.00	4.95	99.0	72.0-127	
p-Isopropyltoluene	5.00	4.90	98.0	72.0-133	
2-Butanone (MEK)	25.0	25.0	100	30.0-160	
Methylene Chloride	5.00	5.37	107	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	23.5	94.0	56.0-143	
Methyl tert-butyl ether	5.00	4.96	99.2	66.0-132	
Naphthalene	5.00	5.11	102	59.0-130	
n-Propylbenzene	5.00	4.46	89.2	74.0-126	
Styrene	5.00	4.86	97.2	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	5.34	107	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	4.39	87.8	68.0-128	
Tetrachloroethene	5.00	5.01	100	70.0-136	
Tetrahydrofuran	5.00	4.01	80.2	37.0-146	
Toluene	5.00	4.62	92.4	75.0-121	
1,1,2-Trichlorotrifluoroethane	5.00	4.78	95.6	61.0-139	
1,2,3-Trichlorobenzene	5.00	5.30	106	59.0-139	
1,2,4-Trichlorobenzene	5.00	5.28	106	62.0-137	
1,1,1-Trichloroethane	5.00	5.28	106	69.0-126	
1,1,2-Trichloroethane	5.00	4.93	98.6	78.0-123	
Trichloroethene	5.00	4.98	99.6	76.0-126	
Trichlorofluoromethane	5.00	4.86	97.2	61.0-142	
1,2,3-Trichloropropane	5.00	4.96	99.2	67.0-129	
1,2,3-Trimethylbenzene	5.00	4.49	89.8	74.0-124	
1,2,4-Trimethylbenzene	5.00	4.60	92.0	70.0-126	
1,3,5-Trimethylbenzene	5.00	4.49	89.8	73.0-127	
Vinyl chloride	5.00	4.29	85.8	63.0-134	
Xylenes, Total	15.0	14.2	94.7	72.0-127	
Allyl chloride	25.0	22.8	91.2	70.0-131	
(S) Toluene-d8			*101*	*75.0-131*	
(S) 4-Bromofluorobenzene			*107*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*102*	*70.0-130*	

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
C4	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Data is likely to show a low bias concerning the result.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration met method criteria.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
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	LAO00356
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

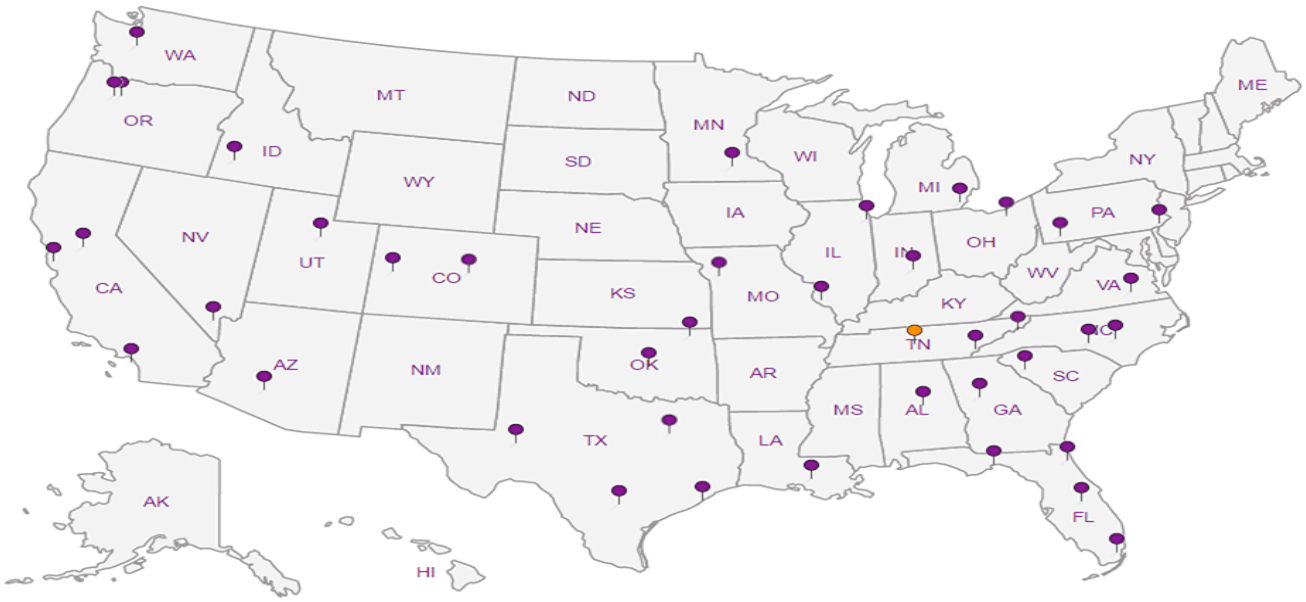
Third Party Federal Accreditations

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.



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 #

Lab Project # PESENVSWA-ALP

Collected by (print): Sean Kownovsky

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK by 2320 125mlHDPE-NoPres	FEG,MNG 250mlHDPE-HNO3	NO3, CL, SO4 9056 125mlHDPE-NoPres	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	SULFATE 125mlHDPE-NoPres	TOC 250mlHDPE-HCl	V8260ULLC 40mlAmb-HCl			Remarks	Sample # (lab only)
								L2					L2					
MW-180-110320	Grab	GW	61	11/3/20	1010	8		X			X	X	X	X				-01
MW-179-110320		GW	46		1100	8		X			X	X	X	X				02
MW-177-110320		GW	N/A		1110	8		X			X	X	X	X				03
MW-171-110320		GW	32.6		1220	8		X			X	X	X	X				04
MW-172-110320		GW	61		1310	8		X			X	X	X	X				05
MW-169-110320		GW	17.7		1400	8		X			X	X	X	X				06
MW-178-110320		GW	31.5		1410	8		X			X	X	X	X				07
MW-170-110320	↓	GW	31.7	↓	1445	8		X			X	X	X	X				08
TripBlank-110320		GW																
		GW																

Chain of Custody Page ___ of ___

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 # L1281775
H199

Acctnum: PESENVSWA
Template: T176996
Prelogin: P807311
PM: 546 - Jared Starkey
PB:
Shipped Via:

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

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 9050 0887 6180

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	11/3/2020			1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: WA °C 1.2+0.2 Bottles Received: 64	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/4/20 Time: 9:00	Hold: Condition: NCF / OK

Jeremy W. Watkins

Pace Analytical®
National Center for Testing & Innovation

Login #: L1281775	Client: PESENVSWA	Date: 11/4/20	Evaluated by: Jeremy

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time		Login Clarification Needed		**If Broken Container:**
	Temperature not in range		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	pH not in range.		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Courie
	Insufficient sample volume.		Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		**If no Chain of Custody:**
	Broken container		Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments: Trip Blank not marked for Analysis.

Client informed by:		Call		Email		Voice Mail		Date:	Time:
TSR Initials:	Client Contact:Shannon M								

Log for VOCs V8260ULLC

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.

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

November 16, 2020

PES Environmental, Inc.- WA

Sample Delivery Group:	L1283261
Samples Received:	11/07/2020
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

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MW-176-110520 L1283261-01 GW

Collected by: Sean Kounovsky | Collected date/time: 11/05/20 08:50 | Received date/time: 11/07/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575337	1	11/12/20 16:09	11/12/20 16:09	ADM	Mt. Juliet, TN

MW-173-110520 L1283261-02 GW

Collected by: Sean Kounovsky | Collected date/time: 11/05/20 09:05 | Received date/time: 11/07/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575337	1	11/12/20 16:29	11/12/20 16:29	ADM	Mt. Juliet, TN

MW-174-110520 L1283261-03 GW

Collected by: Sean Kounovsky | Collected date/time: 11/05/20 09:45 | Received date/time: 11/07/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575337	1	11/12/20 16:50	11/12/20 16:50	ADM	Mt. Juliet, TN

MW-175-110520 L1283261-04 GW

Collected by: Sean Kounovsky | Collected date/time: 11/05/20 09:50 | Received date/time: 11/07/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575337	1	11/12/20 17:10	11/12/20 17:10	ADM	Mt. Juliet, TN

MW-941-110520 L1283261-05 GW

Collected by: Sean Kounovsky | Collected date/time: 11/05/20 08:20 | Received date/time: 11/07/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1573990	1	11/10/20 19:39	11/10/20 19:39	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1576989	1	11/16/20 09:32	11/16/20 09:32	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1574813	50	11/14/20 15:54	11/16/20 14:00	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1575600	1	11/13/20 11:43	11/13/20 11:43	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1576276	10	11/14/20 05:36	11/14/20 05:36	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575337	1	11/12/20 17:31	11/12/20 17:31	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575966	10	11/15/20 10:23	11/15/20 10:23	BMB	Mt. Juliet, TN

MW-165-110520 L1283261-06 GW

Collected by: Sean Kounovsky | Collected date/time: 11/05/20 10:20 | Received date/time: 11/07/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1573990	1	11/10/20 19:59	11/10/20 19:59	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1576989	1	11/16/20 09:47	11/16/20 09:47	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1574813	50	11/14/20 15:54	11/16/20 14:04	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1575600	1	11/13/20 12:04	11/13/20 12:04	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1576276	10	11/14/20 05:40	11/14/20 05:40	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575337	1	11/12/20 17:51	11/12/20 17:51	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575966	10	11/15/20 10:43	11/15/20 10:43	BMB	Mt. Juliet, TN

MW-334-110520 L1283261-07 GW

Collected by: Sean Kounovsky | Collected date/time: 11/05/20 10:45 | Received date/time: 11/07/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575337	1	11/12/20 18:12	11/12/20 18:12	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575966	1	11/15/20 09:01	11/15/20 09:01	BMB	Mt. Juliet, TN

MW-167-110520 L1283261-08 GW

Collected by: Sean Kounovsky | Collected date/time: 11/05/20 10:55 | Received date/time: 11/07/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575337	1	11/12/20 18:32	11/12/20 18:32	ADM	Mt. Juliet, TN

MW-168-110520 L1283261-09 GW

Collected by: Sean Kounovsky | Collected date/time: 11/05/20 12:15 | Received date/time: 11/07/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575337	1	11/12/20 18:52	11/12/20 18:52	ADM	Mt. Juliet, TN

MW-166-110520 L1283261-10 GW

Collected by: Sean Kounovsky | Collected date/time: 11/05/20 12:25 | Received date/time: 11/07/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1573990	1	11/10/20 20:17	11/10/20 20:17	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1576989	1	11/16/20 10:01	11/16/20 10:01	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1574832	20	11/15/20 21:57	11/16/20 14:22	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1575600	1	11/13/20 13:06	11/13/20 13:06	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1576276	10	11/14/20 05:46	11/14/20 05:46	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575337	1	11/12/20 19:13	11/12/20 19:13	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575966	500	11/15/20 11:04	11/15/20 11:04	BMB	Mt. Juliet, TN

MW-333-110520 L1283261-11 GW

Collected by: Sean Kounovsky | Collected date/time: 11/05/20 13:00 | Received date/time: 11/07/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575337	1	11/12/20 19:33	11/12/20 19:33	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575966	1	11/15/20 09:22	11/15/20 09:22	BMB	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

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.36		0.548	1.00	1	11/12/2020 16:09	WG1575337
Acrylonitrile	U		0.0760	0.500	1	11/12/2020 16:09	WG1575337
Benzene	U		0.0160	0.0400	1	11/12/2020 16:09	WG1575337
Bromobenzene	U		0.0420	0.500	1	11/12/2020 16:09	WG1575337
Bromodichloromethane	U		0.0315	0.100	1	11/12/2020 16:09	WG1575337
Bromoform	U		0.239	1.00	1	11/12/2020 16:09	WG1575337
Bromomethane	U		0.148	0.500	1	11/12/2020 16:09	WG1575337
n-Butylbenzene	U		0.153	0.500	1	11/12/2020 16:09	WG1575337
sec-Butylbenzene	U		0.101	0.500	1	11/12/2020 16:09	WG1575337
tert-Butylbenzene	U		0.0620	0.200	1	11/12/2020 16:09	WG1575337
Carbon tetrachloride	U		0.0432	0.200	1	11/12/2020 16:09	WG1575337
Chlorobenzene	U		0.0229	0.100	1	11/12/2020 16:09	WG1575337
Chlorodibromomethane	U		0.0180	0.100	1	11/12/2020 16:09	WG1575337
Chloroethane	U		0.0432	0.200	1	11/12/2020 16:09	WG1575337
Chloroform	U		0.0166	0.100	1	11/12/2020 16:09	WG1575337
Chloromethane	U		0.0556	0.500	1	11/12/2020 16:09	WG1575337
2-Chlorotoluene	U		0.0368	0.100	1	11/12/2020 16:09	WG1575337
4-Chlorotoluene	U		0.0452	0.200	1	11/12/2020 16:09	WG1575337
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/12/2020 16:09	WG1575337
1,2-Dibromoethane	U		0.0210	0.100	1	11/12/2020 16:09	WG1575337
Dibromomethane	U		0.0400	0.200	1	11/12/2020 16:09	WG1575337
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/12/2020 16:09	WG1575337
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/12/2020 16:09	WG1575337
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/12/2020 16:09	WG1575337
Dichlorodifluoromethane	U		0.0327	0.100	1	11/12/2020 16:09	WG1575337
1,1-Dichloroethane	U		0.0230	0.100	1	11/12/2020 16:09	WG1575337
1,2-Dichloroethane	U		0.0190	0.100	1	11/12/2020 16:09	WG1575337
1,1-Dichloroethene	U		0.0200	0.100	1	11/12/2020 16:09	WG1575337
cis-1,2-Dichloroethene	1.22		0.0276	0.100	1	11/12/2020 16:09	WG1575337
trans-1,2-Dichloroethene	1.64		0.0572	0.200	1	11/12/2020 16:09	WG1575337
1,2-Dichloropropane	U		0.0508	0.200	1	11/12/2020 16:09	WG1575337
1,1-Dichloropropene	U		0.0280	0.100	1	11/12/2020 16:09	WG1575337
1,3-Dichloropropane	U		0.0700	0.200	1	11/12/2020 16:09	WG1575337
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/12/2020 16:09	WG1575337
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/12/2020 16:09	WG1575337
2,2-Dichloropropane	U		0.0317	0.100	1	11/12/2020 16:09	WG1575337
Di-isopropyl ether	U		0.0140	0.0400	1	11/12/2020 16:09	WG1575337
Ethylbenzene	U		0.0212	0.100	1	11/12/2020 16:09	WG1575337
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/12/2020 16:09	WG1575337
Isopropylbenzene	U		0.0345	0.100	1	11/12/2020 16:09	WG1575337
p-Isopropyltoluene	U		0.0932	0.200	1	11/12/2020 16:09	WG1575337
2-Butanone (MEK)	U		0.500	1.00	1	11/12/2020 16:09	WG1575337
Methylene Chloride	U		0.265	1.00	1	11/12/2020 16:09	WG1575337
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/12/2020 16:09	WG1575337
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/12/2020 16:09	WG1575337
Naphthalene	U		0.124	0.500	1	11/12/2020 16:09	WG1575337
n-Propylbenzene	U		0.0472	0.200	1	11/12/2020 16:09	WG1575337
Styrene	U		0.109	0.500	1	11/12/2020 16:09	WG1575337
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/12/2020 16:09	WG1575337
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/12/2020 16:09	WG1575337
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/12/2020 16:09	WG1575337
Tetrachloroethene	U		0.0280	0.100	1	11/12/2020 16:09	WG1575337
Toluene	0.204		0.0500	0.200	1	11/12/2020 16:09	WG1575337
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/12/2020 16:09	WG1575337
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/12/2020 16:09	WG1575337
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/12/2020 16:09	WG1575337

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/12/2020 16:09	WG1575337
Trichloroethene	U		0.0160	0.0400	1	11/12/2020 16:09	WG1575337
Trichlorofluoromethane	U		0.0200	0.100	1	11/12/2020 16:09	WG1575337
1,2,3-Trichloropropane	U		0.204	0.500	1	11/12/2020 16:09	WG1575337
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/12/2020 16:09	WG1575337
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/12/2020 16:09	WG1575337
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/12/2020 16:09	WG1575337
Vinyl chloride	2.92		0.0273	0.100	1	11/12/2020 16:09	WG1575337
Xylenes, Total	U		0.191	0.260	1	11/12/2020 16:09	WG1575337
Ethyl Ether	U		0.0170	0.100	1	11/12/2020 16:09	WG1575337
Tetrahydrofuran	0.157	B J	0.0900	0.500	1	11/12/2020 16:09	WG1575337
Iodomethane	U		0.242	0.500	1	11/12/2020 16:09	WG1575337
Allyl chloride	U		0.580	1.00	1	11/12/2020 16:09	WG1575337
Trans-1,4-Dichloro-2-butene	U	C4	0.0560	0.200	1	11/12/2020 16:09	WG1575337
(S) Toluene-d8	*104*			*75.0-131*		*11/12/2020 16:09*	WG1575337
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*11/12/2020 16:09*	WG1575337
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/12/2020 16:09*	WG1575337

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	0.873	J	0.548	1.00	1	11/12/2020 16:29	WG1575337
Acrylonitrile	U		0.0760	0.500	1	11/12/2020 16:29	WG1575337
Benzene	0.179		0.0160	0.0400	1	11/12/2020 16:29	WG1575337
Bromobenzene	U		0.0420	0.500	1	11/12/2020 16:29	WG1575337
Bromodichloromethane	U		0.0315	0.100	1	11/12/2020 16:29	WG1575337
Bromoform	U		0.239	1.00	1	11/12/2020 16:29	WG1575337
Bromomethane	U		0.148	0.500	1	11/12/2020 16:29	WG1575337
n-Butylbenzene	U		0.153	0.500	1	11/12/2020 16:29	WG1575337
sec-Butylbenzene	U		0.101	0.500	1	11/12/2020 16:29	WG1575337
tert-Butylbenzene	U		0.0620	0.200	1	11/12/2020 16:29	WG1575337
Carbon tetrachloride	U		0.0432	0.200	1	11/12/2020 16:29	WG1575337
Chlorobenzene	U		0.0229	0.100	1	11/12/2020 16:29	WG1575337
Chlorodibromomethane	U		0.0180	0.100	1	11/12/2020 16:29	WG1575337
Chloroethane	U		0.0432	0.200	1	11/12/2020 16:29	WG1575337
Chloroform	U		0.0166	0.100	1	11/12/2020 16:29	WG1575337
Chloromethane	U		0.0556	0.500	1	11/12/2020 16:29	WG1575337
2-Chlorotoluene	U		0.0368	0.100	1	11/12/2020 16:29	WG1575337
4-Chlorotoluene	U		0.0452	0.200	1	11/12/2020 16:29	WG1575337
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/12/2020 16:29	WG1575337
1,2-Dibromoethane	U		0.0210	0.100	1	11/12/2020 16:29	WG1575337
Dibromomethane	U		0.0400	0.200	1	11/12/2020 16:29	WG1575337
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/12/2020 16:29	WG1575337
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/12/2020 16:29	WG1575337
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/12/2020 16:29	WG1575337
Dichlorodifluoromethane	U		0.0327	0.100	1	11/12/2020 16:29	WG1575337
1,1-Dichloroethane	U		0.0230	0.100	1	11/12/2020 16:29	WG1575337
1,2-Dichloroethane	U		0.0190	0.100	1	11/12/2020 16:29	WG1575337
1,1-Dichloroethene	U		0.0200	0.100	1	11/12/2020 16:29	WG1575337
cis-1,2-Dichloroethene	0.616		0.0276	0.100	1	11/12/2020 16:29	WG1575337
trans-1,2-Dichloroethene	3.30		0.0572	0.200	1	11/12/2020 16:29	WG1575337
1,2-Dichloropropane	U		0.0508	0.200	1	11/12/2020 16:29	WG1575337
1,1-Dichloropropene	U		0.0280	0.100	1	11/12/2020 16:29	WG1575337
1,3-Dichloropropane	U		0.0700	0.200	1	11/12/2020 16:29	WG1575337
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/12/2020 16:29	WG1575337
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/12/2020 16:29	WG1575337
2,2-Dichloropropane	U		0.0317	0.100	1	11/12/2020 16:29	WG1575337
Di-isopropyl ether	U		0.0140	0.0400	1	11/12/2020 16:29	WG1575337
Ethylbenzene	U		0.0212	0.100	1	11/12/2020 16:29	WG1575337
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/12/2020 16:29	WG1575337
Isopropylbenzene	U		0.0345	0.100	1	11/12/2020 16:29	WG1575337
p-Isopropyltoluene	U		0.0932	0.200	1	11/12/2020 16:29	WG1575337
2-Butanone (MEK)	U		0.500	1.00	1	11/12/2020 16:29	WG1575337
Methylene Chloride	U		0.265	1.00	1	11/12/2020 16:29	WG1575337
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/12/2020 16:29	WG1575337
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/12/2020 16:29	WG1575337
Naphthalene	U		0.124	0.500	1	11/12/2020 16:29	WG1575337
n-Propylbenzene	U		0.0472	0.200	1	11/12/2020 16:29	WG1575337
Styrene	U		0.109	0.500	1	11/12/2020 16:29	WG1575337
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/12/2020 16:29	WG1575337
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/12/2020 16:29	WG1575337
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/12/2020 16:29	WG1575337
Tetrachloroethene	U		0.0280	0.100	1	11/12/2020 16:29	WG1575337
Toluene	U		0.0500	0.200	1	11/12/2020 16:29	WG1575337
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/12/2020 16:29	WG1575337
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/12/2020 16:29	WG1575337
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/12/2020 16:29	WG1575337

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/12/2020 16:29	WG1575337
Trichloroethene	0.0865		0.0160	0.0400	1	11/12/2020 16:29	WG1575337
Trichlorofluoromethane	U		0.0200	0.100	1	11/12/2020 16:29	WG1575337
1,2,3-Trichloropropane	U		0.204	0.500	1	11/12/2020 16:29	WG1575337
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/12/2020 16:29	WG1575337
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/12/2020 16:29	WG1575337
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/12/2020 16:29	WG1575337
Vinyl chloride	105		0.0273	0.100	1	11/12/2020 16:29	WG1575337
Xylenes, Total	U		0.191	0.260	1	11/12/2020 16:29	WG1575337
Ethyl Ether	U		0.0170	0.100	1	11/12/2020 16:29	WG1575337
Tetrahydrofuran	0.844	B	0.0900	0.500	1	11/12/2020 16:29	WG1575337
Iodomethane	U		0.242	0.500	1	11/12/2020 16:29	WG1575337
Allyl chloride	U		0.580	1.00	1	11/12/2020 16:29	WG1575337
Trans-1,4-Dichloro-2-butene	U	C4	0.0560	0.200	1	11/12/2020 16:29	WG1575337
(S) Toluene-d8	*105*			*75.0-131*		*11/12/2020 16:29*	WG1575337
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*11/12/2020 16:29*	WG1575337
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/12/2020 16:29*	WG1575337

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	0.562	J	0.548	1.00	1	11/12/2020 16:50	WG1575337
Acrylonitrile	U		0.0760	0.500	1	11/12/2020 16:50	WG1575337
Benzene	U		0.0160	0.0400	1	11/12/2020 16:50	WG1575337
Bromobenzene	U		0.0420	0.500	1	11/12/2020 16:50	WG1575337
Bromodichloromethane	U		0.0315	0.100	1	11/12/2020 16:50	WG1575337
Bromoform	U		0.239	1.00	1	11/12/2020 16:50	WG1575337
Bromomethane	U		0.148	0.500	1	11/12/2020 16:50	WG1575337
n-Butylbenzene	U		0.153	0.500	1	11/12/2020 16:50	WG1575337
sec-Butylbenzene	U		0.101	0.500	1	11/12/2020 16:50	WG1575337
tert-Butylbenzene	U		0.0620	0.200	1	11/12/2020 16:50	WG1575337
Carbon tetrachloride	U		0.0432	0.200	1	11/12/2020 16:50	WG1575337
Chlorobenzene	U		0.0229	0.100	1	11/12/2020 16:50	WG1575337
Chlorodibromomethane	U		0.0180	0.100	1	11/12/2020 16:50	WG1575337
Chloroethane	U		0.0432	0.200	1	11/12/2020 16:50	WG1575337
Chloroform	U		0.0166	0.100	1	11/12/2020 16:50	WG1575337
Chloromethane	U		0.0556	0.500	1	11/12/2020 16:50	WG1575337
2-Chlorotoluene	U		0.0368	0.100	1	11/12/2020 16:50	WG1575337
4-Chlorotoluene	U		0.0452	0.200	1	11/12/2020 16:50	WG1575337
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/12/2020 16:50	WG1575337
1,2-Dibromoethane	U		0.0210	0.100	1	11/12/2020 16:50	WG1575337
Dibromomethane	U		0.0400	0.200	1	11/12/2020 16:50	WG1575337
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/12/2020 16:50	WG1575337
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/12/2020 16:50	WG1575337
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/12/2020 16:50	WG1575337
Dichlorodifluoromethane	U		0.0327	0.100	1	11/12/2020 16:50	WG1575337
1,1-Dichloroethane	U		0.0230	0.100	1	11/12/2020 16:50	WG1575337
1,2-Dichloroethane	U		0.0190	0.100	1	11/12/2020 16:50	WG1575337
1,1-Dichloroethene	U		0.0200	0.100	1	11/12/2020 16:50	WG1575337
cis-1,2-Dichloroethene	0.609		0.0276	0.100	1	11/12/2020 16:50	WG1575337
trans-1,2-Dichloroethene	2.05		0.0572	0.200	1	11/12/2020 16:50	WG1575337
1,2-Dichloropropane	U		0.0508	0.200	1	11/12/2020 16:50	WG1575337
1,1-Dichloropropene	U		0.0280	0.100	1	11/12/2020 16:50	WG1575337
1,3-Dichloropropane	U		0.0700	0.200	1	11/12/2020 16:50	WG1575337
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/12/2020 16:50	WG1575337
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/12/2020 16:50	WG1575337
2,2-Dichloropropane	U		0.0317	0.100	1	11/12/2020 16:50	WG1575337
Di-isopropyl ether	U		0.0140	0.0400	1	11/12/2020 16:50	WG1575337
Ethylbenzene	U		0.0212	0.100	1	11/12/2020 16:50	WG1575337
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/12/2020 16:50	WG1575337
Isopropylbenzene	U		0.0345	0.100	1	11/12/2020 16:50	WG1575337
p-Isopropyltoluene	U		0.0932	0.200	1	11/12/2020 16:50	WG1575337
2-Butanone (MEK)	U		0.500	1.00	1	11/12/2020 16:50	WG1575337
Methylene Chloride	U		0.265	1.00	1	11/12/2020 16:50	WG1575337
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/12/2020 16:50	WG1575337
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/12/2020 16:50	WG1575337
Naphthalene	U		0.124	0.500	1	11/12/2020 16:50	WG1575337
n-Propylbenzene	U		0.0472	0.200	1	11/12/2020 16:50	WG1575337
Styrene	U		0.109	0.500	1	11/12/2020 16:50	WG1575337
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/12/2020 16:50	WG1575337
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/12/2020 16:50	WG1575337
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/12/2020 16:50	WG1575337
Tetrachloroethene	U		0.0280	0.100	1	11/12/2020 16:50	WG1575337
Toluene	U		0.0500	0.200	1	11/12/2020 16:50	WG1575337
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/12/2020 16:50	WG1575337
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/12/2020 16:50	WG1575337
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/12/2020 16:50	WG1575337

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/12/2020 16:50	WG1575337
Trichloroethene	0.177		0.0160	0.0400	1	11/12/2020 16:50	WG1575337
Trichlorofluoromethane	U		0.0200	0.100	1	11/12/2020 16:50	WG1575337
1,2,3-Trichloropropane	U		0.204	0.500	1	11/12/2020 16:50	WG1575337
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/12/2020 16:50	WG1575337
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/12/2020 16:50	WG1575337
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/12/2020 16:50	WG1575337
Vinyl chloride	3.11		0.0273	0.100	1	11/12/2020 16:50	WG1575337
Xylenes, Total	U		0.191	0.260	1	11/12/2020 16:50	WG1575337
Ethyl Ether	U		0.0170	0.100	1	11/12/2020 16:50	WG1575337
Tetrahydrofuran	U		0.0900	0.500	1	11/12/2020 16:50	WG1575337
Iodomethane	U		0.242	0.500	1	11/12/2020 16:50	WG1575337
Allyl chloride	U		0.580	1.00	1	11/12/2020 16:50	WG1575337
Trans-1,4-Dichloro-2-butene	U	C4	0.0560	0.200	1	11/12/2020 16:50	WG1575337
(S) Toluene-d8	*104*			*75.0-131*		*11/12/2020 16:50*	WG1575337
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*11/12/2020 16:50*	WG1575337
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/12/2020 16:50*	WG1575337

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.08		0.548	1.00	1	11/12/2020 17:10	WG1575337
Acrylonitrile	U		0.0760	0.500	1	11/12/2020 17:10	WG1575337
Benzene	U		0.0160	0.0400	1	11/12/2020 17:10	WG1575337
Bromobenzene	U		0.0420	0.500	1	11/12/2020 17:10	WG1575337
Bromodichloromethane	U		0.0315	0.100	1	11/12/2020 17:10	WG1575337
Bromoform	U		0.239	1.00	1	11/12/2020 17:10	WG1575337
Bromomethane	U		0.148	0.500	1	11/12/2020 17:10	WG1575337
n-Butylbenzene	U		0.153	0.500	1	11/12/2020 17:10	WG1575337
sec-Butylbenzene	U		0.101	0.500	1	11/12/2020 17:10	WG1575337
tert-Butylbenzene	U		0.0620	0.200	1	11/12/2020 17:10	WG1575337
Carbon tetrachloride	U		0.0432	0.200	1	11/12/2020 17:10	WG1575337
Chlorobenzene	U		0.0229	0.100	1	11/12/2020 17:10	WG1575337
Chlorodibromomethane	U		0.0180	0.100	1	11/12/2020 17:10	WG1575337
Chloroethane	U		0.0432	0.200	1	11/12/2020 17:10	WG1575337
Chloroform	U		0.0166	0.100	1	11/12/2020 17:10	WG1575337
Chloromethane	U		0.0556	0.500	1	11/12/2020 17:10	WG1575337
2-Chlorotoluene	U		0.0368	0.100	1	11/12/2020 17:10	WG1575337
4-Chlorotoluene	U		0.0452	0.200	1	11/12/2020 17:10	WG1575337
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/12/2020 17:10	WG1575337
1,2-Dibromoethane	U		0.0210	0.100	1	11/12/2020 17:10	WG1575337
Dibromomethane	U		0.0400	0.200	1	11/12/2020 17:10	WG1575337
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/12/2020 17:10	WG1575337
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/12/2020 17:10	WG1575337
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/12/2020 17:10	WG1575337
Dichlorodifluoromethane	U		0.0327	0.100	1	11/12/2020 17:10	WG1575337
1,1-Dichloroethane	U		0.0230	0.100	1	11/12/2020 17:10	WG1575337
1,2-Dichloroethane	U		0.0190	0.100	1	11/12/2020 17:10	WG1575337
1,1-Dichloroethene	U		0.0200	0.100	1	11/12/2020 17:10	WG1575337
cis-1,2-Dichloroethene	0.744		0.0276	0.100	1	11/12/2020 17:10	WG1575337
trans-1,2-Dichloroethene	1.99		0.0572	0.200	1	11/12/2020 17:10	WG1575337
1,2-Dichloropropane	U		0.0508	0.200	1	11/12/2020 17:10	WG1575337
1,1-Dichloropropene	U		0.0280	0.100	1	11/12/2020 17:10	WG1575337
1,3-Dichloropropane	U		0.0700	0.200	1	11/12/2020 17:10	WG1575337
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/12/2020 17:10	WG1575337
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/12/2020 17:10	WG1575337
2,2-Dichloropropane	U		0.0317	0.100	1	11/12/2020 17:10	WG1575337
Di-isopropyl ether	U		0.0140	0.0400	1	11/12/2020 17:10	WG1575337
Ethylbenzene	U		0.0212	0.100	1	11/12/2020 17:10	WG1575337
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/12/2020 17:10	WG1575337
Isopropylbenzene	U		0.0345	0.100	1	11/12/2020 17:10	WG1575337
p-Isopropyltoluene	U		0.0932	0.200	1	11/12/2020 17:10	WG1575337
2-Butanone (MEK)	U		0.500	1.00	1	11/12/2020 17:10	WG1575337
Methylene Chloride	U		0.265	1.00	1	11/12/2020 17:10	WG1575337
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/12/2020 17:10	WG1575337
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/12/2020 17:10	WG1575337
Naphthalene	U		0.124	0.500	1	11/12/2020 17:10	WG1575337
n-Propylbenzene	U		0.0472	0.200	1	11/12/2020 17:10	WG1575337
Styrene	U		0.109	0.500	1	11/12/2020 17:10	WG1575337
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/12/2020 17:10	WG1575337
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/12/2020 17:10	WG1575337
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/12/2020 17:10	WG1575337
Tetrachloroethene	U		0.0280	0.100	1	11/12/2020 17:10	WG1575337
Toluene	0.204		0.0500	0.200	1	11/12/2020 17:10	WG1575337
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/12/2020 17:10	WG1575337
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/12/2020 17:10	WG1575337
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/12/2020 17:10	WG1575337

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/12/2020 17:10	WG1575337
Trichloroethene	U		0.0160	0.0400	1	11/12/2020 17:10	WG1575337
Trichlorofluoromethane	U		0.0200	0.100	1	11/12/2020 17:10	WG1575337
1,2,3-Trichloropropane	U		0.204	0.500	1	11/12/2020 17:10	WG1575337
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/12/2020 17:10	WG1575337
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/12/2020 17:10	WG1575337
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/12/2020 17:10	WG1575337
Vinyl chloride	3.58		0.0273	0.100	1	11/12/2020 17:10	WG1575337
Xylenes, Total	U		0.191	0.260	1	11/12/2020 17:10	WG1575337
Ethyl Ether	U		0.0170	0.100	1	11/12/2020 17:10	WG1575337
Tetrahydrofuran	0.105	B J	0.0900	0.500	1	11/12/2020 17:10	WG1575337
Iodomethane	U		0.242	0.500	1	11/12/2020 17:10	WG1575337
Allyl chloride	U		0.580	1.00	1	11/12/2020 17:10	WG1575337
Trans-1,4-Dichloro-2-butene	U	C4	0.0560	0.200	1	11/12/2020 17:10	WG1575337
(S) Toluene-d8	*104*			*75.0-131*		*11/12/2020 17:10*	WG1575337
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*11/12/2020 17:10*	WG1575337
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/12/2020 17:10*	WG1575337

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	2650	J	594	5000	1	11/10/2020 19:39	WG1573990

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)	83300		102	1000	1	11/16/2020 09:32	WG1576989

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	44600		1400	5000	50	11/16/2020 14:00	WG1574813
Manganese	7030		35.2	250	50	11/16/2020 14:00	WG1574813

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	29500		2.87	6.78	10	11/14/2020 05:36	WG1576276
Ethane	549		0.296	1.29	1	11/13/2020 11:43	WG1575600
Ethene	532		0.422	1.27	1	11/13/2020 11:43	WG1575600

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	5.40		0.548	1.00	1	11/12/2020 17:31	WG1575337
Acrylonitrile	U		0.0760	0.500	1	11/12/2020 17:31	WG1575337
Benzene	0.152		0.0160	0.0400	1	11/12/2020 17:31	WG1575337
Bromobenzene	U		0.0420	0.500	1	11/12/2020 17:31	WG1575337
Bromodichloromethane	U		0.0315	0.100	1	11/12/2020 17:31	WG1575337
Bromoform	U		0.239	1.00	1	11/12/2020 17:31	WG1575337
Bromomethane	U		0.148	0.500	1	11/12/2020 17:31	WG1575337
n-Butylbenzene	U		0.153	0.500	1	11/12/2020 17:31	WG1575337
sec-Butylbenzene	U		0.101	0.500	1	11/12/2020 17:31	WG1575337
tert-Butylbenzene	U		0.0620	0.200	1	11/12/2020 17:31	WG1575337
Carbon tetrachloride	U		0.0432	0.200	1	11/12/2020 17:31	WG1575337
Chlorobenzene	U		0.0229	0.100	1	11/12/2020 17:31	WG1575337
Chlorodibromomethane	U		0.0180	0.100	1	11/12/2020 17:31	WG1575337
Chloroethane	U		0.0432	0.200	1	11/12/2020 17:31	WG1575337
Chloroform	U		0.0166	0.100	1	11/12/2020 17:31	WG1575337
Chloromethane	U		0.0556	0.500	1	11/12/2020 17:31	WG1575337
2-Chlorotoluene	U		0.0368	0.100	1	11/12/2020 17:31	WG1575337
4-Chlorotoluene	U		0.0452	0.200	1	11/12/2020 17:31	WG1575337
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/12/2020 17:31	WG1575337
1,2-Dibromoethane	U		0.0210	0.100	1	11/12/2020 17:31	WG1575337
Dibromomethane	U		0.0400	0.200	1	11/12/2020 17:31	WG1575337
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/12/2020 17:31	WG1575337
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/12/2020 17:31	WG1575337
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/12/2020 17:31	WG1575337
Dichlorodifluoromethane	U		0.0327	0.100	1	11/12/2020 17:31	WG1575337
1,1-Dichloroethane	U		0.0230	0.100	1	11/12/2020 17:31	WG1575337
1,2-Dichloroethane	U		0.0190	0.100	1	11/12/2020 17:31	WG1575337
1,1-Dichloroethene	0.553		0.0200	0.100	1	11/12/2020 17:31	WG1575337
cis-1,2-Dichloroethene	578		0.276	1.00	10	11/15/2020 10:23	WG1575966
trans-1,2-Dichloroethene	13.0		0.0572	0.200	1	11/12/2020 17:31	WG1575337
1,2-Dichloropropane	U		0.0508	0.200	1	11/12/2020 17:31	WG1575337

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/12/2020 17:31	WG1575337
1,3-Dichloropropane	U		0.0700	0.200	1	11/12/2020 17:31	WG1575337
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/12/2020 17:31	WG1575337
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/12/2020 17:31	WG1575337
2,2-Dichloropropane	U		0.0317	0.100	1	11/12/2020 17:31	WG1575337
Di-isopropyl ether	U		0.0140	0.0400	1	11/12/2020 17:31	WG1575337
Ethylbenzene	U		0.0212	0.100	1	11/12/2020 17:31	WG1575337
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/12/2020 17:31	WG1575337
Isopropylbenzene	U		0.0345	0.100	1	11/12/2020 17:31	WG1575337
p-Isopropyltoluene	U		0.0932	0.200	1	11/12/2020 17:31	WG1575337
2-Butanone (MEK)	1.44		0.500	1.00	1	11/12/2020 17:31	WG1575337
Methylene Chloride	U		0.265	1.00	1	11/12/2020 17:31	WG1575337
4-Methyl-2-pentanone (MIBK)	0.402	J	0.400	1.00	1	11/12/2020 17:31	WG1575337
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/12/2020 17:31	WG1575337
Naphthalene	U		0.124	0.500	1	11/12/2020 17:31	WG1575337
n-Propylbenzene	U		0.0472	0.200	1	11/12/2020 17:31	WG1575337
Styrene	U		0.109	0.500	1	11/12/2020 17:31	WG1575337
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/12/2020 17:31	WG1575337
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/12/2020 17:31	WG1575337
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/12/2020 17:31	WG1575337
Tetrachloroethene	U		0.0280	0.100	1	11/12/2020 17:31	WG1575337
Toluene	0.625		0.0500	0.200	1	11/12/2020 17:31	WG1575337
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/12/2020 17:31	WG1575337
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/12/2020 17:31	WG1575337
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/12/2020 17:31	WG1575337
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/12/2020 17:31	WG1575337
Trichloroethene	0.280		0.0160	0.0400	1	11/12/2020 17:31	WG1575337
Trichlorofluoromethane	U		0.0200	0.100	1	11/12/2020 17:31	WG1575337
1,2,3-Trichloropropane	U		0.204	0.500	1	11/12/2020 17:31	WG1575337
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/12/2020 17:31	WG1575337
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/12/2020 17:31	WG1575337
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/12/2020 17:31	WG1575337
Vinyl chloride	1170		0.273	1.00	10	11/15/2020 10:23	WG1575966
Xylenes, Total	U		0.191	0.260	1	11/12/2020 17:31	WG1575337
Ethyl Ether	U		0.0170	0.100	1	11/12/2020 17:31	WG1575337
Tetrahydrofuran	1.50	B	0.0900	0.500	1	11/12/2020 17:31	WG1575337
Iodomethane	U		0.242	0.500	1	11/12/2020 17:31	WG1575337
Allyl chloride	U		0.580	1.00	1	11/12/2020 17:31	WG1575337
Trans-1,4-Dichloro-2-butene	U	C4	0.0560	0.200	1	11/12/2020 17:31	WG1575337
(S) Toluene-d8	*105*			*75.0-131*		*11/12/2020 17:31*	WG1575337
(S) Toluene-d8	*103*			*75.0-131*		*11/15/2020 10:23*	WG1575966
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*11/12/2020 17:31*	WG1575337
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*11/15/2020 10:23*	WG1575966
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/12/2020 17:31*	WG1575337
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*11/15/2020 10:23*	WG1575966

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	2640	J	594	5000	1	11/10/2020 19:59	WG1573990

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)	83200		102	1000	1	11/16/2020 09:47	WG1576989

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	44700		1400	5000	50	11/16/2020 14:04	WG1574813
Manganese	6920		35.2	250	50	11/16/2020 14:04	WG1574813

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	28200		2.87	6.78	10	11/14/2020 05:40	WG1576276
Ethane	529		0.296	1.29	1	11/13/2020 12:04	WG1575600
Ethene	499		0.422	1.27	1	11/13/2020 12:04	WG1575600

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	5.04		0.548	1.00	1	11/12/2020 17:51	WG1575337
Acrylonitrile	U		0.0760	0.500	1	11/12/2020 17:51	WG1575337
Benzene	0.138		0.0160	0.0400	1	11/12/2020 17:51	WG1575337
Bromobenzene	U		0.0420	0.500	1	11/12/2020 17:51	WG1575337
Bromodichloromethane	U		0.0315	0.100	1	11/12/2020 17:51	WG1575337
Bromoform	U		0.239	1.00	1	11/12/2020 17:51	WG1575337
Bromomethane	U		0.148	0.500	1	11/12/2020 17:51	WG1575337
n-Butylbenzene	U		0.153	0.500	1	11/12/2020 17:51	WG1575337
sec-Butylbenzene	U		0.101	0.500	1	11/12/2020 17:51	WG1575337
tert-Butylbenzene	U		0.0620	0.200	1	11/12/2020 17:51	WG1575337
Carbon tetrachloride	U		0.0432	0.200	1	11/12/2020 17:51	WG1575337
Chlorobenzene	U		0.0229	0.100	1	11/12/2020 17:51	WG1575337
Chlorodibromomethane	U		0.0180	0.100	1	11/12/2020 17:51	WG1575337
Chloroethane	U		0.0432	0.200	1	11/12/2020 17:51	WG1575337
Chloroform	U		0.0166	0.100	1	11/12/2020 17:51	WG1575337
Chloromethane	U		0.0556	0.500	1	11/12/2020 17:51	WG1575337
2-Chlorotoluene	U		0.0368	0.100	1	11/12/2020 17:51	WG1575337
4-Chlorotoluene	U		0.0452	0.200	1	11/12/2020 17:51	WG1575337
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/12/2020 17:51	WG1575337
1,2-Dibromoethane	U		0.0210	0.100	1	11/12/2020 17:51	WG1575337
Dibromomethane	U		0.0400	0.200	1	11/12/2020 17:51	WG1575337
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/12/2020 17:51	WG1575337
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/12/2020 17:51	WG1575337
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/12/2020 17:51	WG1575337
Dichlorodifluoromethane	U		0.0327	0.100	1	11/12/2020 17:51	WG1575337
1,1-Dichloroethane	U		0.0230	0.100	1	11/12/2020 17:51	WG1575337
1,2-Dichloroethane	U		0.0190	0.100	1	11/12/2020 17:51	WG1575337
1,1-Dichloroethene	0.516		0.0200	0.100	1	11/12/2020 17:51	WG1575337
cis-1,2-Dichloroethene	578		0.276	1.00	10	11/15/2020 10:43	WG1575966
trans-1,2-Dichloroethene	12.6		0.0572	0.200	1	11/12/2020 17:51	WG1575337
1,2-Dichloropropane	U		0.0508	0.200	1	11/12/2020 17:51	WG1575337

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/12/2020 17:51	WG1575337
1,3-Dichloropropane	U		0.0700	0.200	1	11/12/2020 17:51	WG1575337
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/12/2020 17:51	WG1575337
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/12/2020 17:51	WG1575337
2,2-Dichloropropane	U		0.0317	0.100	1	11/12/2020 17:51	WG1575337
Di-isopropyl ether	U		0.0140	0.0400	1	11/12/2020 17:51	WG1575337
Ethylbenzene	U		0.0212	0.100	1	11/12/2020 17:51	WG1575337
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/12/2020 17:51	WG1575337
Isopropylbenzene	U		0.0345	0.100	1	11/12/2020 17:51	WG1575337
p-Isopropyltoluene	U		0.0932	0.200	1	11/12/2020 17:51	WG1575337
2-Butanone (MEK)	1.30		0.500	1.00	1	11/12/2020 17:51	WG1575337
Methylene Chloride	U		0.265	1.00	1	11/12/2020 17:51	WG1575337
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/12/2020 17:51	WG1575337
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/12/2020 17:51	WG1575337
Naphthalene	U		0.124	0.500	1	11/12/2020 17:51	WG1575337
n-Propylbenzene	U		0.0472	0.200	1	11/12/2020 17:51	WG1575337
Styrene	U		0.109	0.500	1	11/12/2020 17:51	WG1575337
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/12/2020 17:51	WG1575337
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/12/2020 17:51	WG1575337
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/12/2020 17:51	WG1575337
Tetrachloroethene	U		0.0280	0.100	1	11/12/2020 17:51	WG1575337
Toluene	0.633		0.0500	0.200	1	11/12/2020 17:51	WG1575337
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/12/2020 17:51	WG1575337
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/12/2020 17:51	WG1575337
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/12/2020 17:51	WG1575337
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/12/2020 17:51	WG1575337
Trichloroethene	0.276		0.0160	0.0400	1	11/12/2020 17:51	WG1575337
Trichlorofluoromethane	U		0.0200	0.100	1	11/12/2020 17:51	WG1575337
1,2,3-Trichloropropane	U		0.204	0.500	1	11/12/2020 17:51	WG1575337
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/12/2020 17:51	WG1575337
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/12/2020 17:51	WG1575337
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/12/2020 17:51	WG1575337
Vinyl chloride	1160		0.273	1.00	10	11/15/2020 10:43	WG1575966
Xylenes, Total	U		0.191	0.260	1	11/12/2020 17:51	WG1575337
Ethyl Ether	U		0.0170	0.100	1	11/12/2020 17:51	WG1575337
Tetrahydrofuran	1.46	B	0.0900	0.500	1	11/12/2020 17:51	WG1575337
Iodomethane	U		0.242	0.500	1	11/12/2020 17:51	WG1575337
Allyl chloride	U		0.580	1.00	1	11/12/2020 17:51	WG1575337
Trans-1,4-Dichloro-2-butene	U	C4	0.0560	0.200	1	11/12/2020 17:51	WG1575337
(S) Toluene-d8	*106*			*75.0-131*		*11/12/2020 17:51*	WG1575337
(S) Toluene-d8	*105*			*75.0-131*		*11/15/2020 10:43*	WG1575966
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*11/12/2020 17:51*	WG1575337
(S) 4-Bromofluorobenzene	*115*			*67.0-138*		*11/15/2020 10:43*	WG1575966
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/12/2020 17:51*	WG1575337
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/15/2020 10:43*	WG1575966

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	0.777	J	0.548	1.00	1	11/12/2020 18:12	WG1575337
Acrylonitrile	U		0.0760	0.500	1	11/12/2020 18:12	WG1575337
Benzene	U		0.0160	0.0400	1	11/12/2020 18:12	WG1575337
Bromobenzene	U		0.0420	0.500	1	11/12/2020 18:12	WG1575337
Bromodichloromethane	U		0.0315	0.100	1	11/12/2020 18:12	WG1575337
Bromoform	U		0.239	1.00	1	11/12/2020 18:12	WG1575337
Bromomethane	U		0.148	0.500	1	11/12/2020 18:12	WG1575337
n-Butylbenzene	U		0.153	0.500	1	11/12/2020 18:12	WG1575337
sec-Butylbenzene	U		0.101	0.500	1	11/12/2020 18:12	WG1575337
tert-Butylbenzene	U		0.0620	0.200	1	11/12/2020 18:12	WG1575337
Carbon tetrachloride	U		0.0432	0.200	1	11/12/2020 18:12	WG1575337
Chlorobenzene	U		0.0229	0.100	1	11/12/2020 18:12	WG1575337
Chlorodibromomethane	U		0.0180	0.100	1	11/12/2020 18:12	WG1575337
Chloroethane	U		0.0432	0.200	1	11/12/2020 18:12	WG1575337
Chloroform	U		0.0166	0.100	1	11/12/2020 18:12	WG1575337
Chloromethane	U		0.0556	0.500	1	11/12/2020 18:12	WG1575337
2-Chlorotoluene	U		0.0368	0.100	1	11/12/2020 18:12	WG1575337
4-Chlorotoluene	U		0.0452	0.200	1	11/12/2020 18:12	WG1575337
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/12/2020 18:12	WG1575337
1,2-Dibromoethane	U		0.0210	0.100	1	11/12/2020 18:12	WG1575337
Dibromomethane	U		0.0400	0.200	1	11/12/2020 18:12	WG1575337
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/12/2020 18:12	WG1575337
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/12/2020 18:12	WG1575337
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/12/2020 18:12	WG1575337
Dichlorodifluoromethane	U		0.0327	0.100	1	11/12/2020 18:12	WG1575337
1,1-Dichloroethane	U		0.0230	0.100	1	11/12/2020 18:12	WG1575337
1,2-Dichloroethane	U		0.0190	0.100	1	11/12/2020 18:12	WG1575337
1,1-Dichloroethene	U		0.0200	0.100	1	11/12/2020 18:12	WG1575337
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/15/2020 09:01	WG1575966
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/12/2020 18:12	WG1575337
1,2-Dichloropropane	U		0.0508	0.200	1	11/12/2020 18:12	WG1575337
1,1-Dichloropropene	U		0.0280	0.100	1	11/12/2020 18:12	WG1575337
1,3-Dichloropropane	U		0.0700	0.200	1	11/12/2020 18:12	WG1575337
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/12/2020 18:12	WG1575337
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/12/2020 18:12	WG1575337
2,2-Dichloropropane	U		0.0317	0.100	1	11/12/2020 18:12	WG1575337
Di-isopropyl ether	U		0.0140	0.0400	1	11/12/2020 18:12	WG1575337
Ethylbenzene	U		0.0212	0.100	1	11/12/2020 18:12	WG1575337
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/12/2020 18:12	WG1575337
Isopropylbenzene	U		0.0345	0.100	1	11/12/2020 18:12	WG1575337
p-Isopropyltoluene	U		0.0932	0.200	1	11/12/2020 18:12	WG1575337
2-Butanone (MEK)	U		0.500	1.00	1	11/12/2020 18:12	WG1575337
Methylene Chloride	U		0.265	1.00	1	11/12/2020 18:12	WG1575337
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/12/2020 18:12	WG1575337
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/12/2020 18:12	WG1575337
Naphthalene	U		0.124	0.500	1	11/12/2020 18:12	WG1575337
n-Propylbenzene	U		0.0472	0.200	1	11/12/2020 18:12	WG1575337
Styrene	U		0.109	0.500	1	11/12/2020 18:12	WG1575337
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/12/2020 18:12	WG1575337
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/12/2020 18:12	WG1575337
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/12/2020 18:12	WG1575337
Tetrachloroethene	U		0.0280	0.100	1	11/12/2020 18:12	WG1575337
Toluene	0.195	J	0.0500	0.200	1	11/12/2020 18:12	WG1575337
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/12/2020 18:12	WG1575337
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/12/2020 18:12	WG1575337
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/12/2020 18:12	WG1575337

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/12/2020 18:12	WG1575337
Trichloroethene	U		0.0160	0.0400	1	11/12/2020 18:12	WG1575337
Trichlorofluoromethane	U		0.0200	0.100	1	11/12/2020 18:12	WG1575337
1,2,3-Trichloropropane	U		0.204	0.500	1	11/12/2020 18:12	WG1575337
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/12/2020 18:12	WG1575337
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/12/2020 18:12	WG1575337
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/12/2020 18:12	WG1575337
Vinyl chloride	U		0.0273	0.100	1	11/15/2020 09:01	WG1575966
Xylenes, Total	U		0.191	0.260	1	11/12/2020 18:12	WG1575337
Ethyl Ether	U		0.0170	0.100	1	11/12/2020 18:12	WG1575337
Tetrahydrofuran	U		0.0900	0.500	1	11/12/2020 18:12	WG1575337
Iodomethane	U		0.242	0.500	1	11/12/2020 18:12	WG1575337
Allyl chloride	U		0.580	1.00	1	11/12/2020 18:12	WG1575337
Trans-1,4-Dichloro-2-butene	U	C4	0.0560	0.200	1	11/12/2020 18:12	WG1575337
(S) Toluene-d8	*106*			*75.0-131*		*11/12/2020 18:12*	WG1575337
(S) Toluene-d8	*103*			*75.0-131*		*11/15/2020 09:01*	WG1575966
(S) 4-Bromofluorobenzene	*109*			*67.0-138*		*11/12/2020 18:12*	WG1575337
(S) 4-Bromofluorobenzene	*109*			*67.0-138*		*11/15/2020 09:01*	WG1575966
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/12/2020 18:12*	WG1575337
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/15/2020 09:01*	WG1575966

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	0.818	J	0.548	1.00	1	11/12/2020 18:32	WG1575337
Acrylonitrile	U		0.0760	0.500	1	11/12/2020 18:32	WG1575337
Benzene	U		0.0160	0.0400	1	11/12/2020 18:32	WG1575337
Bromobenzene	U		0.0420	0.500	1	11/12/2020 18:32	WG1575337
Bromodichloromethane	U		0.0315	0.100	1	11/12/2020 18:32	WG1575337
Bromoform	U		0.239	1.00	1	11/12/2020 18:32	WG1575337
Bromomethane	U		0.148	0.500	1	11/12/2020 18:32	WG1575337
n-Butylbenzene	U		0.153	0.500	1	11/12/2020 18:32	WG1575337
sec-Butylbenzene	U		0.101	0.500	1	11/12/2020 18:32	WG1575337
tert-Butylbenzene	U		0.0620	0.200	1	11/12/2020 18:32	WG1575337
Carbon tetrachloride	U		0.0432	0.200	1	11/12/2020 18:32	WG1575337
Chlorobenzene	U		0.0229	0.100	1	11/12/2020 18:32	WG1575337
Chlorodibromomethane	U		0.0180	0.100	1	11/12/2020 18:32	WG1575337
Chloroethane	U		0.0432	0.200	1	11/12/2020 18:32	WG1575337
Chloroform	U		0.0166	0.100	1	11/12/2020 18:32	WG1575337
Chloromethane	U		0.0556	0.500	1	11/12/2020 18:32	WG1575337
2-Chlorotoluene	U		0.0368	0.100	1	11/12/2020 18:32	WG1575337
4-Chlorotoluene	U		0.0452	0.200	1	11/12/2020 18:32	WG1575337
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/12/2020 18:32	WG1575337
1,2-Dibromoethane	U		0.0210	0.100	1	11/12/2020 18:32	WG1575337
Dibromomethane	U		0.0400	0.200	1	11/12/2020 18:32	WG1575337
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/12/2020 18:32	WG1575337
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/12/2020 18:32	WG1575337
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/12/2020 18:32	WG1575337
Dichlorodifluoromethane	U		0.0327	0.100	1	11/12/2020 18:32	WG1575337
1,1-Dichloroethane	U		0.0230	0.100	1	11/12/2020 18:32	WG1575337
1,2-Dichloroethane	U		0.0190	0.100	1	11/12/2020 18:32	WG1575337
1,1-Dichloroethene	U		0.0200	0.100	1	11/12/2020 18:32	WG1575337
cis-1,2-Dichloroethene	0.675		0.0276	0.100	1	11/12/2020 18:32	WG1575337
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/12/2020 18:32	WG1575337
1,2-Dichloropropane	U		0.0508	0.200	1	11/12/2020 18:32	WG1575337
1,1-Dichloropropene	U		0.0280	0.100	1	11/12/2020 18:32	WG1575337
1,3-Dichloropropane	U		0.0700	0.200	1	11/12/2020 18:32	WG1575337
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/12/2020 18:32	WG1575337
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/12/2020 18:32	WG1575337
2,2-Dichloropropane	U		0.0317	0.100	1	11/12/2020 18:32	WG1575337
Di-isopropyl ether	U		0.0140	0.0400	1	11/12/2020 18:32	WG1575337
Ethylbenzene	U		0.0212	0.100	1	11/12/2020 18:32	WG1575337
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/12/2020 18:32	WG1575337
Isopropylbenzene	U		0.0345	0.100	1	11/12/2020 18:32	WG1575337
p-Isopropyltoluene	U		0.0932	0.200	1	11/12/2020 18:32	WG1575337
2-Butanone (MEK)	U		0.500	1.00	1	11/12/2020 18:32	WG1575337
Methylene Chloride	U		0.265	1.00	1	11/12/2020 18:32	WG1575337
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/12/2020 18:32	WG1575337
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/12/2020 18:32	WG1575337
Naphthalene	U		0.124	0.500	1	11/12/2020 18:32	WG1575337
n-Propylbenzene	U		0.0472	0.200	1	11/12/2020 18:32	WG1575337
Styrene	U		0.109	0.500	1	11/12/2020 18:32	WG1575337
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/12/2020 18:32	WG1575337
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/12/2020 18:32	WG1575337
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/12/2020 18:32	WG1575337
Tetrachloroethene	U		0.0280	0.100	1	11/12/2020 18:32	WG1575337
Toluene	0.255		0.0500	0.200	1	11/12/2020 18:32	WG1575337
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/12/2020 18:32	WG1575337
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/12/2020 18:32	WG1575337
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/12/2020 18:32	WG1575337

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/12/2020 18:32	WG1575337
Trichloroethene	U		0.0160	0.0400	1	11/12/2020 18:32	WG1575337
Trichlorofluoromethane	U		0.0200	0.100	1	11/12/2020 18:32	WG1575337
1,2,3-Trichloropropane	U		0.204	0.500	1	11/12/2020 18:32	WG1575337
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/12/2020 18:32	WG1575337
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/12/2020 18:32	WG1575337
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/12/2020 18:32	WG1575337
Vinyl chloride	0.897		0.0273	0.100	1	11/12/2020 18:32	WG1575337
Xylenes, Total	U		0.191	0.260	1	11/12/2020 18:32	WG1575337
Ethyl Ether	U		0.0170	0.100	1	11/12/2020 18:32	WG1575337
Tetrahydrofuran	0.462	B J	0.0900	0.500	1	11/12/2020 18:32	WG1575337
Iodomethane	U		0.242	0.500	1	11/12/2020 18:32	WG1575337
Allyl chloride	U		0.580	1.00	1	11/12/2020 18:32	WG1575337
Trans-1,4-Dichloro-2-butene	U	C4	0.0560	0.200	1	11/12/2020 18:32	WG1575337
(S) Toluene-d8	*106*			*75.0-131*		*11/12/2020 18:32*	WG1575337
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*11/12/2020 18:32*	WG1575337
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/12/2020 18:32*	WG1575337

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	20.3		0.548	1.00	1	11/12/2020 18:52	WG1575337
Acrylonitrile	U		0.0760	0.500	1	11/12/2020 18:52	WG1575337
Benzene	U		0.0160	0.0400	1	11/12/2020 18:52	WG1575337
Bromobenzene	U		0.0420	0.500	1	11/12/2020 18:52	WG1575337
Bromodichloromethane	U		0.0315	0.100	1	11/12/2020 18:52	WG1575337
Bromoform	U		0.239	1.00	1	11/12/2020 18:52	WG1575337
Bromomethane	U		0.148	0.500	1	11/12/2020 18:52	WG1575337
n-Butylbenzene	U		0.153	0.500	1	11/12/2020 18:52	WG1575337
sec-Butylbenzene	U		0.101	0.500	1	11/12/2020 18:52	WG1575337
tert-Butylbenzene	U		0.0620	0.200	1	11/12/2020 18:52	WG1575337
Carbon tetrachloride	U		0.0432	0.200	1	11/12/2020 18:52	WG1575337
Chlorobenzene	U		0.0229	0.100	1	11/12/2020 18:52	WG1575337
Chlorodibromomethane	U		0.0180	0.100	1	11/12/2020 18:52	WG1575337
Chloroethane	U		0.0432	0.200	1	11/12/2020 18:52	WG1575337
Chloroform	U		0.0166	0.100	1	11/12/2020 18:52	WG1575337
Chloromethane	U		0.0556	0.500	1	11/12/2020 18:52	WG1575337
2-Chlorotoluene	U		0.0368	0.100	1	11/12/2020 18:52	WG1575337
4-Chlorotoluene	U		0.0452	0.200	1	11/12/2020 18:52	WG1575337
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/12/2020 18:52	WG1575337
1,2-Dibromoethane	U		0.0210	0.100	1	11/12/2020 18:52	WG1575337
Dibromomethane	U		0.0400	0.200	1	11/12/2020 18:52	WG1575337
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/12/2020 18:52	WG1575337
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/12/2020 18:52	WG1575337
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/12/2020 18:52	WG1575337
Dichlorodifluoromethane	U		0.0327	0.100	1	11/12/2020 18:52	WG1575337
1,1-Dichloroethane	U		0.0230	0.100	1	11/12/2020 18:52	WG1575337
1,2-Dichloroethane	U		0.0190	0.100	1	11/12/2020 18:52	WG1575337
1,1-Dichloroethene	U		0.0200	0.100	1	11/12/2020 18:52	WG1575337
cis-1,2-Dichloroethene	1.92		0.0276	0.100	1	11/12/2020 18:52	WG1575337
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/12/2020 18:52	WG1575337
1,2-Dichloropropane	U		0.0508	0.200	1	11/12/2020 18:52	WG1575337
1,1-Dichloropropene	U		0.0280	0.100	1	11/12/2020 18:52	WG1575337
1,3-Dichloropropane	U		0.0700	0.200	1	11/12/2020 18:52	WG1575337
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/12/2020 18:52	WG1575337
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/12/2020 18:52	WG1575337
2,2-Dichloropropane	U		0.0317	0.100	1	11/12/2020 18:52	WG1575337
Di-isopropyl ether	U		0.0140	0.0400	1	11/12/2020 18:52	WG1575337
Ethylbenzene	U		0.0212	0.100	1	11/12/2020 18:52	WG1575337
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/12/2020 18:52	WG1575337
Isopropylbenzene	U		0.0345	0.100	1	11/12/2020 18:52	WG1575337
p-Isopropyltoluene	U		0.0932	0.200	1	11/12/2020 18:52	WG1575337
2-Butanone (MEK)	3.86		0.500	1.00	1	11/12/2020 18:52	WG1575337
Methylene Chloride	U		0.265	1.00	1	11/12/2020 18:52	WG1575337
4-Methyl-2-pentanone (MIBK)	0.559	J	0.400	1.00	1	11/12/2020 18:52	WG1575337
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/12/2020 18:52	WG1575337
Naphthalene	U		0.124	0.500	1	11/12/2020 18:52	WG1575337
n-Propylbenzene	U		0.0472	0.200	1	11/12/2020 18:52	WG1575337
Styrene	U		0.109	0.500	1	11/12/2020 18:52	WG1575337
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/12/2020 18:52	WG1575337
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/12/2020 18:52	WG1575337
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/12/2020 18:52	WG1575337
Tetrachloroethene	U		0.0280	0.100	1	11/12/2020 18:52	WG1575337
Toluene	0.314		0.0500	0.200	1	11/12/2020 18:52	WG1575337
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/12/2020 18:52	WG1575337
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/12/2020 18:52	WG1575337
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/12/2020 18:52	WG1575337

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/12/2020 18:52	WG1575337
Trichloroethene	U		0.0160	0.0400	1	11/12/2020 18:52	WG1575337
Trichlorofluoromethane	U		0.0200	0.100	1	11/12/2020 18:52	WG1575337
1,2,3-Trichloropropane	U		0.204	0.500	1	11/12/2020 18:52	WG1575337
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/12/2020 18:52	WG1575337
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/12/2020 18:52	WG1575337
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/12/2020 18:52	WG1575337
Vinyl chloride	0.407		0.0273	0.100	1	11/12/2020 18:52	WG1575337
Xylenes, Total	U		0.191	0.260	1	11/12/2020 18:52	WG1575337
Ethyl Ether	U		0.0170	0.100	1	11/12/2020 18:52	WG1575337
Tetrahydrofuran	U		0.0900	0.500	1	11/12/2020 18:52	WG1575337
Iodomethane	U		0.242	0.500	1	11/12/2020 18:52	WG1575337
Allyl chloride	U		0.580	1.00	1	11/12/2020 18:52	WG1575337
Trans-1,4-Dichloro-2-butene	U	C4	0.0560	0.200	1	11/12/2020 18:52	WG1575337
(S) Toluene-d8	*104*			*75.0-131*		*11/12/2020 18:52*	WG1575337
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*11/12/2020 18:52*	WG1575337
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/12/2020 18:52*	WG1575337

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	4670	J	594	5000	1	11/10/2020 20:17	WG1573990

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)	42200		102	1000	1	11/16/2020 10:01	WG1576989

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	36600		562	2000	20	11/16/2020 14:22	WG1574832
Manganese	2030		14.1	100	20	11/16/2020 14:22	WG1574832

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	34500		2.87	6.78	10	11/14/2020 05:46	WG1576276
Ethane	940		0.296	1.29	1	11/13/2020 13:06	WG1575600
Ethene	1890		0.422	1.27	1	11/13/2020 13:06	WG1575600

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.40		0.548	1.00	1	11/12/2020 19:13	WG1575337
Acrylonitrile	U		0.0760	0.500	1	11/12/2020 19:13	WG1575337
Benzene	0.0909		0.0160	0.0400	1	11/12/2020 19:13	WG1575337
Bromobenzene	U		0.0420	0.500	1	11/12/2020 19:13	WG1575337
Bromodichloromethane	U		0.0315	0.100	1	11/12/2020 19:13	WG1575337
Bromoform	U		0.239	1.00	1	11/12/2020 19:13	WG1575337
Bromomethane	U		0.148	0.500	1	11/12/2020 19:13	WG1575337
n-Butylbenzene	U		0.153	0.500	1	11/12/2020 19:13	WG1575337
sec-Butylbenzene	U		0.101	0.500	1	11/12/2020 19:13	WG1575337
tert-Butylbenzene	U		0.0620	0.200	1	11/12/2020 19:13	WG1575337
Carbon tetrachloride	U		0.0432	0.200	1	11/12/2020 19:13	WG1575337
Chlorobenzene	U		0.0229	0.100	1	11/12/2020 19:13	WG1575337
Chlorodibromomethane	U		0.0180	0.100	1	11/12/2020 19:13	WG1575337
Chloroethane	U		0.0432	0.200	1	11/12/2020 19:13	WG1575337
Chloroform	U		0.0166	0.100	1	11/12/2020 19:13	WG1575337
Chloromethane	U		0.0556	0.500	1	11/12/2020 19:13	WG1575337
2-Chlorotoluene	U		0.0368	0.100	1	11/12/2020 19:13	WG1575337
4-Chlorotoluene	U		0.0452	0.200	1	11/12/2020 19:13	WG1575337
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/12/2020 19:13	WG1575337
1,2-Dibromoethane	U		0.0210	0.100	1	11/12/2020 19:13	WG1575337
Dibromomethane	U		0.0400	0.200	1	11/12/2020 19:13	WG1575337
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/12/2020 19:13	WG1575337
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/12/2020 19:13	WG1575337
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/12/2020 19:13	WG1575337
Dichlorodifluoromethane	U		0.0327	0.100	1	11/12/2020 19:13	WG1575337
1,1-Dichloroethane	U		0.0230	0.100	1	11/12/2020 19:13	WG1575337
1,2-Dichloroethane	U		0.0190	0.100	1	11/12/2020 19:13	WG1575337
1,1-Dichloroethene	9.04		0.0200	0.100	1	11/12/2020 19:13	WG1575337
cis-1,2-Dichloroethene	6090		13.8	50.0	500	11/15/2020 11:04	WG1575966
trans-1,2-Dichloroethene	27.4		0.0572	0.200	1	11/12/2020 19:13	WG1575337
1,2-Dichloropropane	U		0.0508	0.200	1	11/12/2020 19:13	WG1575337

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/12/2020 19:13	WG1575337
1,3-Dichloropropane	U		0.0700	0.200	1	11/12/2020 19:13	WG1575337
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/12/2020 19:13	WG1575337
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/12/2020 19:13	WG1575337
2,2-Dichloropropane	U		0.0317	0.100	1	11/12/2020 19:13	WG1575337
Di-isopropyl ether	U		0.0140	0.0400	1	11/12/2020 19:13	WG1575337
Ethylbenzene	U		0.0212	0.100	1	11/12/2020 19:13	WG1575337
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/12/2020 19:13	WG1575337
Isopropylbenzene	U		0.0345	0.100	1	11/12/2020 19:13	WG1575337
p-Isopropyltoluene	U		0.0932	0.200	1	11/12/2020 19:13	WG1575337
2-Butanone (MEK)	U		0.500	1.00	1	11/12/2020 19:13	WG1575337
Methylene Chloride	U		0.265	1.00	1	11/12/2020 19:13	WG1575337
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/12/2020 19:13	WG1575337
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/12/2020 19:13	WG1575337
Naphthalene	U		0.124	0.500	1	11/12/2020 19:13	WG1575337
n-Propylbenzene	U		0.0472	0.200	1	11/12/2020 19:13	WG1575337
Styrene	U		0.109	0.500	1	11/12/2020 19:13	WG1575337
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/12/2020 19:13	WG1575337
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/12/2020 19:13	WG1575337
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/12/2020 19:13	WG1575337
Tetrachloroethene	U		0.0280	0.100	1	11/12/2020 19:13	WG1575337
Toluene	0.143	J	0.0500	0.200	1	11/12/2020 19:13	WG1575337
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/12/2020 19:13	WG1575337
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/12/2020 19:13	WG1575337
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/12/2020 19:13	WG1575337
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/12/2020 19:13	WG1575337
Trichloroethene	0.271		0.0160	0.0400	1	11/12/2020 19:13	WG1575337
Trichlorofluoromethane	U		0.0200	0.100	1	11/12/2020 19:13	WG1575337
1,2,3-Trichloropropane	U		0.204	0.500	1	11/12/2020 19:13	WG1575337
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/12/2020 19:13	WG1575337
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/12/2020 19:13	WG1575337
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/12/2020 19:13	WG1575337
Vinyl chloride	3380		13.6	50.0	500	11/15/2020 11:04	WG1575966
Xylenes, Total	U		0.191	0.260	1	11/12/2020 19:13	WG1575337
Ethyl Ether	U		0.0170	0.100	1	11/12/2020 19:13	WG1575337
Tetrahydrofuran	0.855	B	0.0900	0.500	1	11/12/2020 19:13	WG1575337
Iodomethane	U		0.242	0.500	1	11/12/2020 19:13	WG1575337
Allyl chloride	U		0.580	1.00	1	11/12/2020 19:13	WG1575337
Trans-1,4-Dichloro-2-butene	U	C4	0.0560	0.200	1	11/12/2020 19:13	WG1575337
(S) Toluene-d8	*104*			*75.0-131*		*11/12/2020 19:13*	WG1575337
(S) Toluene-d8	*92.8*			*75.0-131*		*11/15/2020 11:04*	WG1575966
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*11/12/2020 19:13*	WG1575337
(S) 4-Bromofluorobenzene	*111*			*67.0-138*		*11/15/2020 11:04*	WG1575966
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/12/2020 19:13*	WG1575337
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/15/2020 11:04*	WG1575966

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	0.938	J	0.548	1.00	1	11/12/2020 19:33	WG1575337
Acrylonitrile	U		0.0760	0.500	1	11/12/2020 19:33	WG1575337
Benzene	U		0.0160	0.0400	1	11/12/2020 19:33	WG1575337
Bromobenzene	U		0.0420	0.500	1	11/12/2020 19:33	WG1575337
Bromodichloromethane	U		0.0315	0.100	1	11/12/2020 19:33	WG1575337
Bromoform	U		0.239	1.00	1	11/12/2020 19:33	WG1575337
Bromomethane	U		0.148	0.500	1	11/12/2020 19:33	WG1575337
n-Butylbenzene	U		0.153	0.500	1	11/12/2020 19:33	WG1575337
sec-Butylbenzene	U		0.101	0.500	1	11/12/2020 19:33	WG1575337
tert-Butylbenzene	U		0.0620	0.200	1	11/12/2020 19:33	WG1575337
Carbon tetrachloride	U		0.0432	0.200	1	11/12/2020 19:33	WG1575337
Chlorobenzene	U		0.0229	0.100	1	11/12/2020 19:33	WG1575337
Chlorodibromomethane	U		0.0180	0.100	1	11/12/2020 19:33	WG1575337
Chloroethane	U		0.0432	0.200	1	11/12/2020 19:33	WG1575337
Chloroform	U		0.0166	0.100	1	11/12/2020 19:33	WG1575337
Chloromethane	U		0.0556	0.500	1	11/12/2020 19:33	WG1575337
2-Chlorotoluene	U		0.0368	0.100	1	11/12/2020 19:33	WG1575337
4-Chlorotoluene	U		0.0452	0.200	1	11/12/2020 19:33	WG1575337
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/12/2020 19:33	WG1575337
1,2-Dibromoethane	U		0.0210	0.100	1	11/12/2020 19:33	WG1575337
Dibromomethane	U		0.0400	0.200	1	11/12/2020 19:33	WG1575337
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/12/2020 19:33	WG1575337
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/12/2020 19:33	WG1575337
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/12/2020 19:33	WG1575337
Dichlorodifluoromethane	U		0.0327	0.100	1	11/12/2020 19:33	WG1575337
1,1-Dichloroethane	U		0.0230	0.100	1	11/12/2020 19:33	WG1575337
1,2-Dichloroethane	U		0.0190	0.100	1	11/12/2020 19:33	WG1575337
1,1-Dichloroethene	U		0.0200	0.100	1	11/12/2020 19:33	WG1575337
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/15/2020 09:22	WG1575966
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/12/2020 19:33	WG1575337
1,2-Dichloropropane	U		0.0508	0.200	1	11/12/2020 19:33	WG1575337
1,1-Dichloropropene	U		0.0280	0.100	1	11/12/2020 19:33	WG1575337
1,3-Dichloropropane	U		0.0700	0.200	1	11/12/2020 19:33	WG1575337
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/12/2020 19:33	WG1575337
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/12/2020 19:33	WG1575337
2,2-Dichloropropane	U		0.0317	0.100	1	11/12/2020 19:33	WG1575337
Di-isopropyl ether	0.217		0.0140	0.0400	1	11/12/2020 19:33	WG1575337
Ethylbenzene	U		0.0212	0.100	1	11/12/2020 19:33	WG1575337
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/12/2020 19:33	WG1575337
Isopropylbenzene	U		0.0345	0.100	1	11/12/2020 19:33	WG1575337
p-Isopropyltoluene	U		0.0932	0.200	1	11/12/2020 19:33	WG1575337
2-Butanone (MEK)	U		0.500	1.00	1	11/12/2020 19:33	WG1575337
Methylene Chloride	U		0.265	1.00	1	11/12/2020 19:33	WG1575337
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/12/2020 19:33	WG1575337
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/12/2020 19:33	WG1575337
Naphthalene	U		0.124	0.500	1	11/12/2020 19:33	WG1575337
n-Propylbenzene	U		0.0472	0.200	1	11/12/2020 19:33	WG1575337
Styrene	U		0.109	0.500	1	11/12/2020 19:33	WG1575337
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/12/2020 19:33	WG1575337
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/12/2020 19:33	WG1575337
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/12/2020 19:33	WG1575337
Tetrachloroethene	U		0.0280	0.100	1	11/12/2020 19:33	WG1575337
Toluene	0.253		0.0500	0.200	1	11/12/2020 19:33	WG1575337
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/12/2020 19:33	WG1575337
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/12/2020 19:33	WG1575337
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/12/2020 19:33	WG1575337

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/12/2020 19:33	WG1575337
Trichloroethene	U		0.0160	0.0400	1	11/12/2020 19:33	WG1575337
Trichlorofluoromethane	U		0.0200	0.100	1	11/12/2020 19:33	WG1575337
1,2,3-Trichloropropane	U		0.204	0.500	1	11/12/2020 19:33	WG1575337
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/12/2020 19:33	WG1575337
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/12/2020 19:33	WG1575337
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/12/2020 19:33	WG1575337
Vinyl chloride	U		0.0273	0.100	1	11/15/2020 09:22	WG1575966
Xylenes, Total	U		0.191	0.260	1	11/12/2020 19:33	WG1575337
Ethyl Ether	U		0.0170	0.100	1	11/12/2020 19:33	WG1575337
Tetrahydrofuran	U		0.0900	0.500	1	11/12/2020 19:33	WG1575337
Iodomethane	U		0.242	0.500	1	11/12/2020 19:33	WG1575337
Allyl chloride	U		0.580	1.00	1	11/12/2020 19:33	WG1575337
Trans-1,4-Dichloro-2-butene	U	C4	0.0560	0.200	1	11/12/2020 19:33	WG1575337
(S) Toluene-d8	*104*			*75.0-131*		*11/12/2020 19:33*	WG1575337
(S) Toluene-d8	*104*			*75.0-131*		*11/15/2020 09:22*	WG1575966
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*11/12/2020 19:33*	WG1575337
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*11/15/2020 09:22*	WG1575966
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/12/2020 19:33*	WG1575337
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/15/2020 09:22*	WG1575966

Method Blank (MB)

(MB) R3591966-1 11/10/20 10:08

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Sulfate	U		594	5000

L1283604-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1283604-05 11/10/20 12:50 • (DUP) R3591966-3 11/10/20 13:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Sulfate	7110	7120	1	0.207		15

L1283604-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1283604-17 11/10/20 15:54 • (DUP) R3591966-6 11/10/20 16:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Sulfate	7170	7170	1	0.0865		15

Laboratory Control Sample (LCS)

(LCS) R3591966-2 11/10/20 10:26

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Sulfate	40000	39300	98.1	80.0-120	

L1283604-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283604-08 11/10/20 14:40 • (MS) R3591966-4 11/10/20 15:17 • (MSD) R3591966-5 11/10/20 15:36

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	%	%		%			%	%
Sulfate	50000	3600	54000	53600	101	100	1	80.0-120			0.737	15

L1283604-13 Original Sample (OS) • Matrix Spike (MS)

(OS) L1283604-13 11/10/20 17:26 • (MS) R3591966-7 11/10/20 18:21

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	ug/l	ug/l	ug/l	%		%	
Sulfate	50000	11600	61500	99.7	1	80.0-120	

Method Blank (MB)

(MB) R3593458-1 11/16/20 02:18

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	362	J	102	1000

Laboratory Control Sample (LCS)

(LCS) R3593458-2 11/16/20 02:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	76100	102	85.0-115	

L1283189-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283189-02 11/16/20 02:56 • (MS) R3593458-3 11/16/20 03:09 • (MSD) R3593458-4 11/16/20 03:23

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 (Total Organic Carbon)	50000	1110	50700	51700	99.2	101	1	80.0-120			2.01	20

L1283189-33 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283189-33 11/16/20 08:39 • (MS) R3593458-6 11/16/20 08:54 • (MSD) R3593458-7 11/16/20 09:09

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 %
TOC (Total Organic Carbon)	50000	12400	68000	65400	111	106	1	80.0-120			3.88	20

Method Blank (MB)

(MB) R3593533-1 11/16/20 12:00

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	35.5	J	28.1	100
Manganese	U		0.704	5.00

Laboratory Control Sample (LCS)

(LCS) R3593533-2 11/16/20 12:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	5000	5170	103	80.0-120	
Manganese	50.0	49.1	98.1	80.0-120	

L1283235-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283235-05 11/16/20 12:08 • (MS) R3593533-4 11/16/20 12:15 • (MSD) R3593533-5 11/16/20 12:19

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	5000	4880	10100	10100	104	105	1	75.0-125			0.396	20
Manganese	50.0	485	548	556	126	143	1	75.0-125	V	V	1.56	20

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

Method Blank (MB)

(MB) R3593543-1 11/16/20 12:18

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

Laboratory Control Sample (LCS)

(LCS) R3593543-2 11/16/20 12:22

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	5000	5280	106	80.0-120	
Manganese	50.0	49.9	99.9	80.0-120	

L1283261-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283261-10 11/16/20 12:25 • (MS) R3593543-4 11/16/20 12:31 • (MSD) R3593543-5 11/16/20 12:35

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	34200	39200	39300	101	102	1	75.0-125			0.146	20
Manganese	50.0	1800	1860	1840	132	78.8	1	75.0-125	V		1.44	20

Method Blank (MB)

(MB) R3592808-2 11/13/20 09:58

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

L1283092-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1283092-02 11/13/20 10:03 • (DUP) R3592808-3 11/13/20 11:05

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

L1283092-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1283092-12 11/13/20 11:11 • (DUP) R3592808-4 11/13/20 13:16

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

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

(LCS) R3592808-1 11/13/20 09:54 • (LCSD) R3592808-5 11/13/20 13:18

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	%	%	%			%	%
Ethane	129	128	131	99.2	102	85.0-115			2.32	20
Ethene	127	125	129	98.4	102	85.0-115			3.15	20

Method Blank (MB)

(MB) R3593020-2 11/14/20 05:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678

L1283083-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1283083-11 11/14/20 05:21 • (DUP) R3593020-3 11/14/20 05:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	10700	10800	10	0.930		20

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

(LCS) R3593020-1 11/14/20 05:01 • (LCSD) R3593020-4 11/14/20 06:33

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	68.4	66.5	101	98.1	85.0-115			2.82	20

Method Blank (MB)

(MB) R3592677-2 11/12/20 09:56

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	0.154	J	0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100

Method Blank (MB)

(MB) R3592677-2 11/12/20 09:56

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	0.178	J	0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	0.202	J	0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	0.252	J	0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*105*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*97.7*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3592677-1 11/12/20 09:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	22.1	88.4	10.0-160	
Acrylonitrile	25.0	25.0	100	45.0-153	
Benzene	5.00	4.58	91.6	70.0-123	
Bromobenzene	5.00	4.26	85.2	73.0-121	
Bromodichloromethane	5.00	4.62	92.4	73.0-121	
Bromoform	5.00	5.03	101	64.0-132	
Bromomethane	5.00	4.39	87.8	56.0-147	
n-Butylbenzene	5.00	4.83	96.6	68.0-135	
sec-Butylbenzene	5.00	4.71	94.2	74.0-130	
tert-Butylbenzene	5.00	4.86	97.2	75.0-127	
Carbon tetrachloride	5.00	5.33	107	66.0-128	
Chlorobenzene	5.00	4.85	97.0	76.0-128	
Chlorodibromomethane	5.00	4.81	96.2	74.0-127	
Chloroethane	5.00	4.33	86.6	61.0-134	
Chloroform	5.00	4.76	95.2	72.0-123	
Chloromethane	5.00	4.70	94.0	51.0-138	
2-Chlorotoluene	5.00	4.44	88.8	75.0-124	
4-Chlorotoluene	5.00	4.41	88.2	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	5.03	101	59.0-130	
1,2-Dibromoethane	5.00	4.99	99.8	74.0-128	
Dibromomethane	5.00	4.91	98.2	75.0-122	
1,2-Dichlorobenzene	5.00	4.81	96.2	76.0-124	
1,3-Dichlorobenzene	5.00	4.81	96.2	76.0-125	
1,4-Dichlorobenzene	5.00	4.66	93.2	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	2.44	48.8	45.0-143	
Dichlorodifluoromethane	5.00	5.20	104	43.0-156	
1,1-Dichloroethane	5.00	4.74	94.8	70.0-127	
1,2-Dichloroethane	5.00	4.92	98.4	65.0-131	
1,1-Dichloroethene	5.00	4.58	91.6	65.0-131	
cis-1,2-Dichloroethene	5.00	4.80	96.0	73.0-125	
trans-1,2-Dichloroethene	5.00	4.94	98.8	71.0-125	
1,2-Dichloropropane	5.00	4.81	96.2	74.0-125	
1,1-Dichloropropene	5.00	4.72	94.4	73.0-125	
1,3-Dichloropropane	5.00	4.84	96.8	80.0-125	
cis-1,3-Dichloropropene	5.00	4.86	97.2	76.0-127	
trans-1,3-Dichloropropene	5.00	4.85	97.0	73.0-127	
2,2-Dichloropropane	5.00	5.54	111	59.0-135	
Di-isopropyl ether	5.00	4.79	95.8	60.0-136	
Ethylbenzene	5.00	4.78	95.6	74.0-126	
Ethyl ether	5.00	5.20	104	64.0-137	

Laboratory Control Sample (LCS)

(LCS) R3592677-1 11/12/20 09:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexachloro-1,3-butadiene	5.00	5.31	106	57.0-150	
Iodomethane	25.0	25.1	100	74.0-134	
Isopropylbenzene	5.00	4.95	99.0	72.0-127	
p-Isopropyltoluene	5.00	4.90	98.0	72.0-133	
2-Butanone (MEK)	25.0	25.0	100	30.0-160	
Methylene Chloride	5.00	5.37	107	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	23.5	94.0	56.0-143	
Methyl tert-butyl ether	5.00	4.96	99.2	66.0-132	
Naphthalene	5.00	5.11	102	59.0-130	
n-Propylbenzene	5.00	4.46	89.2	74.0-126	
Styrene	5.00	4.86	97.2	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	5.34	107	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	4.39	87.8	68.0-128	
Tetrachloroethene	5.00	5.01	100	70.0-136	
Tetrahydrofuran	5.00	4.01	80.2	37.0-146	
Toluene	5.00	4.62	92.4	75.0-121	
1,1,2-Trichlorotrifluoroethane	5.00	4.78	95.6	61.0-139	
1,2,3-Trichlorobenzene	5.00	5.30	106	59.0-139	
1,2,4-Trichlorobenzene	5.00	5.28	106	62.0-137	
1,1,1-Trichloroethane	5.00	5.28	106	69.0-126	
1,1,2-Trichloroethane	5.00	4.93	98.6	78.0-123	
Trichloroethene	5.00	4.98	99.6	76.0-126	
Trichlorofluoromethane	5.00	4.86	97.2	61.0-142	
1,2,3-Trichloropropane	5.00	4.96	99.2	67.0-129	
1,2,3-Trimethylbenzene	5.00	4.49	89.8	74.0-124	
1,2,4-Trimethylbenzene	5.00	4.60	92.0	70.0-126	
1,3,5-Trimethylbenzene	5.00	4.49	89.8	73.0-127	
Vinyl chloride	5.00	4.29	85.8	63.0-134	
Xylenes, Total	15.0	14.2	94.7	72.0-127	
Allyl chloride	25.0	22.8	91.2	70.0-131	
(S) Toluene-d8			*101*	*75.0-131*	
(S) 4-Bromofluorobenzene			*107*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*102*	*70.0-130*	

Method Blank (MB)

(MB) R3593571-3 11/14/20 23:45

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*107*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*97.2*			*70.0-130*

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

(LCS) R3593571-1 11/14/20 22:44 • (LCSD) R3593571-2 11/14/20 23:04

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
cis-1,2-Dichloroethene	5.00	5.61	5.19	112	104	73.0-125			7.78	20
Vinyl chloride	5.00	4.96	4.50	99.2	90.0	63.0-134			9.73	20
(S) Toluene-d8				*102*	*103*	*75.0-131*				
(S) 4-Bromofluorobenzene				*108*	*108*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*98.6*	*98.1*	*70.0-130*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
C4	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Data is likely to show a low bias concerning the result.
J	The identification of the analyte is acceptable; the reported value is an estimate.
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	LAO00356
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

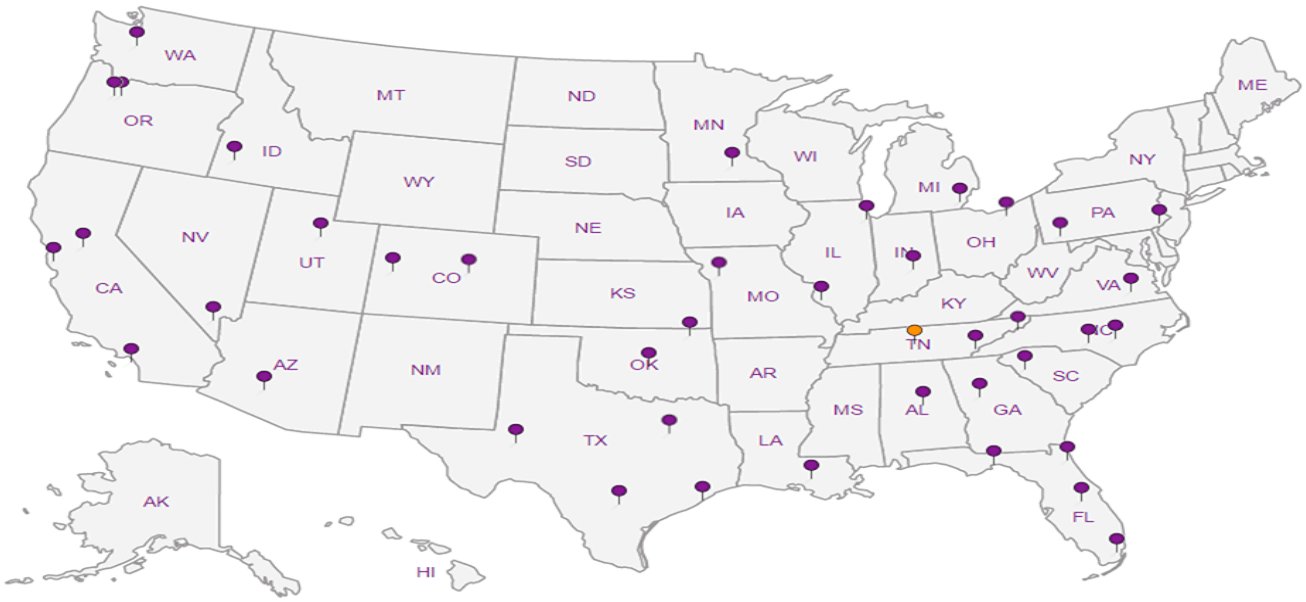
Third Party Federal Accreditations

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.



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 # 1413.001.02.501E

Lab Project # PESENVSWA-ALP

Collected by (print): Sean Kownovsky

Site/Facility ID # American Linen

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y X

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

Date Results Needed: Standard

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK by 2320 125mlHDPE-NoPres	FEG,MNG 250mlHDPE-HNO3	NO3, CL, SO4 9056 125mlHDPE-NoPres	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	SULFATE 125mlHDPE-NoPres	TOC 250mlHDPE-HCl	V8260ULLC 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-176-110520	Grab	GW	61.5	11/5/20	0850	3								X		-01
MW-173-110520		GW	n/a		0905	3								X		-02
MW-174-110520		GW	n/a		0945	3								X		-03
MW-175-110520		GW	46.5		0950	3								X		-04
MW-941-110520		GW	n/a		0820	8		X			X	X	X	X		-05
MW-165-110520		GW	n/a		1020	8		X			X	X	X	X		-06
MW-334-110520		GW	58		1045	3								X		-07
MW-167-110520		GW	47		1055	3								X		-08
MW-168-110520		GW	62		1215	3								X		-09
MW-166-110520		GW	17.6		1225	8		X			X	X	X	X		-10

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 9159 8782 1530

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	11/5/2020	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: WPR °C Bottles Received: 3.5+0=35 48

Date: 11/6/20 Time: 830

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

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Chain of Custody Page 1 of 2

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 # L1283261

Table B063

Acctnum: PESENVSWA

Template: T176996

Prelogin: P807311

PM: 546 - Jared Starkey

PB:

Shipped Via:

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 # 1413.001.62.SOIE

Lab Project # PESENVSWA-ALP

Collected by (print): Sean Kounovsky

Site/Facility ID # American Linen

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y X

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

Date Results Needed: STANDARD

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK by 2320 125mlHDPE-NoPres	FEG,MNG 250mlHDPE-HNO3	NO3, CL, SO4 9056 125mlHDPE-NoPres	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	SULFATE 125mlHDPE-NoPres	TOC 250mlHDPE-HCl	V8260ULLC 40mlAmb-HCl			Remarks	Sample # (lab only)
MW-333-110520	Grab	GW	38.2	11/5/20	1300	3								X				-11
		GW																
		GW																
		GW																
		GW																
		GW																
		GW																
		GW																
		GW																
		GW																

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

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 # U128326

Table #

Acctnum: PESENVSWA

Template: T176996

Prelogin: P807311

PM: 546 - Jared Starkey

PB:

Shipped Via:

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: (FedEx) __ UPS __ Courier _____

Tracking # 4159 8782 1530

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

	Date:	Time:		
Relinquished by : (Signature)	11/5/2020	1500	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2 °C 3.5-1.0=3.5 Bottles Received: 48
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/7/20 Time: 930

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

November 17, 2020

PES Environmental, Inc.- WA

Sample Delivery Group:	L1283292
Samples Received:	11/07/2020
Project Number:	1413.001.02.501E
Description:	American Linen
Site:	1413.001.02.501E
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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MW-307-110620 L1283292-01 GW

Collected by: HRC/BLH | Collected date/time: 11/06/20 09:45 | Received date/time: 11/07/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575337	1	11/12/20 19:54	11/12/20 19:54	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575966	1	11/15/20 09:42	11/15/20 09:42	BMB	Mt. Juliet, TN

MW-122-110620 L1283292-02 GW

Collected by: HRC/BLH | Collected date/time: 11/06/20 11:33 | Received date/time: 11/07/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575337	1	11/12/20 20:14	11/12/20 20:14	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1575966	1	11/15/20 10:03	11/15/20 10:03	BMB	Mt. Juliet, TN

MW-308-110620 L1283292-03 GW

Collected by: HRC/BLH | Collected date/time: 11/06/20 12:33 | Received date/time: 11/07/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576904	1	11/15/20 15:26	11/15/20 15:26	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1577289	1	11/17/20 04:11	11/17/20 04:11	JHH	Mt. Juliet, TN

MW-305-110620 L1283292-04 GW

Collected by: HRC/BLH | Collected date/time: 11/06/20 11:45 | Received date/time: 11/07/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576904	1	11/15/20 15:46	11/15/20 15:46	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1577289	1	11/17/20 04:30	11/17/20 04:30	JHH	Mt. Juliet, TN

MW-306-110620 L1283292-05 GW

Collected by: HRC/BLH | Collected date/time: 11/06/20 13:00 | Received date/time: 11/07/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576904	1	11/15/20 16:07	11/15/20 16:07	ACG	Mt. Juliet, TN

MW-309-110620 L1283292-06 GW

Collected by: HRC/BLH | Collected date/time: 11/06/20 13:43 | Received date/time: 11/07/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576904	1	11/15/20 16:28	11/15/20 16:28	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1577289	1	11/17/20 04:48	11/17/20 04:48	JHH	Mt. Juliet, TN

MW-331-110620 L1283292-07 GW

Collected by: HRC/BLH | Collected date/time: 11/06/20 15:10 | Received date/time: 11/07/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576904	1	11/15/20 16:48	11/15/20 16:48	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1577289	1	11/17/20 05:07	11/17/20 05:07	JHH	Mt. Juliet, TN

MW-310-110620 L1283292-08 GW

Collected by	Collected date/time	Received date/time
HRC/BLH	11/06/20 15:25	11/07/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576904	1	11/15/20 17:08	11/15/20 17:08	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

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	0.643	J	0.548	1.00	1	11/12/2020 19:54	WG1575337
Acrylonitrile	U		0.0760	0.500	1	11/12/2020 19:54	WG1575337
Benzene	U		0.0160	0.0400	1	11/12/2020 19:54	WG1575337
Bromobenzene	U		0.0420	0.500	1	11/12/2020 19:54	WG1575337
Bromodichloromethane	U		0.0315	0.100	1	11/12/2020 19:54	WG1575337
Bromoform	U		0.239	1.00	1	11/12/2020 19:54	WG1575337
Bromomethane	U		0.148	0.500	1	11/12/2020 19:54	WG1575337
n-Butylbenzene	U		0.153	0.500	1	11/12/2020 19:54	WG1575337
sec-Butylbenzene	U		0.101	0.500	1	11/12/2020 19:54	WG1575337
tert-Butylbenzene	U		0.0620	0.200	1	11/12/2020 19:54	WG1575337
Carbon tetrachloride	U		0.0432	0.200	1	11/12/2020 19:54	WG1575337
Chlorobenzene	U		0.0229	0.100	1	11/12/2020 19:54	WG1575337
Chlorodibromomethane	U		0.0180	0.100	1	11/12/2020 19:54	WG1575337
Chloroethane	U		0.0432	0.200	1	11/12/2020 19:54	WG1575337
Chloroform	U		0.0166	0.100	1	11/12/2020 19:54	WG1575337
Chloromethane	U		0.0556	0.500	1	11/12/2020 19:54	WG1575337
2-Chlorotoluene	U		0.0368	0.100	1	11/12/2020 19:54	WG1575337
4-Chlorotoluene	U		0.0452	0.200	1	11/12/2020 19:54	WG1575337
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/12/2020 19:54	WG1575337
1,2-Dibromoethane	U		0.0210	0.100	1	11/12/2020 19:54	WG1575337
Dibromomethane	U		0.0400	0.200	1	11/12/2020 19:54	WG1575337
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/12/2020 19:54	WG1575337
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/12/2020 19:54	WG1575337
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/12/2020 19:54	WG1575337
Dichlorodifluoromethane	U		0.0327	0.100	1	11/12/2020 19:54	WG1575337
1,1-Dichloroethane	U		0.0230	0.100	1	11/12/2020 19:54	WG1575337
1,2-Dichloroethane	U		0.0190	0.100	1	11/12/2020 19:54	WG1575337
1,1-Dichloroethene	U		0.0200	0.100	1	11/12/2020 19:54	WG1575337
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/15/2020 09:42	WG1575966
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/12/2020 19:54	WG1575337
1,2-Dichloropropane	U		0.0508	0.200	1	11/12/2020 19:54	WG1575337
1,1-Dichloropropene	U		0.0280	0.100	1	11/12/2020 19:54	WG1575337
1,3-Dichloropropane	U		0.0700	0.200	1	11/12/2020 19:54	WG1575337
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/12/2020 19:54	WG1575337
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/12/2020 19:54	WG1575337
2,2-Dichloropropane	U		0.0317	0.100	1	11/12/2020 19:54	WG1575337
Di-isopropyl ether	U		0.0140	0.0400	1	11/12/2020 19:54	WG1575337
Ethylbenzene	U		0.0212	0.100	1	11/12/2020 19:54	WG1575337
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/12/2020 19:54	WG1575337
Isopropylbenzene	U		0.0345	0.100	1	11/12/2020 19:54	WG1575337
p-Isopropyltoluene	U		0.0932	0.200	1	11/12/2020 19:54	WG1575337
2-Butanone (MEK)	U		0.500	1.00	1	11/12/2020 19:54	WG1575337
Methylene Chloride	U		0.265	1.00	1	11/12/2020 19:54	WG1575337
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/12/2020 19:54	WG1575337
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/12/2020 19:54	WG1575337
Naphthalene	U		0.124	0.500	1	11/12/2020 19:54	WG1575337
n-Propylbenzene	U		0.0472	0.200	1	11/12/2020 19:54	WG1575337
Styrene	U		0.109	0.500	1	11/12/2020 19:54	WG1575337
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/12/2020 19:54	WG1575337
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/12/2020 19:54	WG1575337
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/12/2020 19:54	WG1575337
Tetrachloroethene	U		0.0280	0.100	1	11/12/2020 19:54	WG1575337
Toluene	0.427		0.0500	0.200	1	11/12/2020 19:54	WG1575337
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/12/2020 19:54	WG1575337
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/12/2020 19:54	WG1575337
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/12/2020 19:54	WG1575337

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/12/2020 19:54	WG1575337
Trichloroethene	U		0.0160	0.0400	1	11/12/2020 19:54	WG1575337
Trichlorofluoromethane	U		0.0200	0.100	1	11/12/2020 19:54	WG1575337
1,2,3-Trichloropropane	U		0.204	0.500	1	11/12/2020 19:54	WG1575337
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/12/2020 19:54	WG1575337
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/12/2020 19:54	WG1575337
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/12/2020 19:54	WG1575337
Vinyl chloride	U		0.0273	0.100	1	11/15/2020 09:42	WG1575966
Xylenes, Total	U		0.191	0.260	1	11/12/2020 19:54	WG1575337
Ethyl Ether	U		0.0170	0.100	1	11/12/2020 19:54	WG1575337
Tetrahydrofuran	U		0.0900	0.500	1	11/12/2020 19:54	WG1575337
Iodomethane	U		0.242	0.500	1	11/12/2020 19:54	WG1575337
Allyl chloride	U		0.580	1.00	1	11/12/2020 19:54	WG1575337
Trans-1,4-Dichloro-2-butene	U	C4	0.0560	0.200	1	11/12/2020 19:54	WG1575337
(S) Toluene-d8	*103*			*75.0-131*		*11/12/2020 19:54*	WG1575337
(S) Toluene-d8	*104*			*75.0-131*		*11/15/2020 09:42*	WG1575966
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*11/12/2020 19:54*	WG1575337
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*11/15/2020 09:42*	WG1575966
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/12/2020 19:54*	WG1575337
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/15/2020 09:42*	WG1575966

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	0.854	J	0.548	1.00	1	11/12/2020 20:14	WG1575337
Acrylonitrile	U		0.0760	0.500	1	11/12/2020 20:14	WG1575337
Benzene	U		0.0160	0.0400	1	11/12/2020 20:14	WG1575337
Bromobenzene	U		0.0420	0.500	1	11/12/2020 20:14	WG1575337
Bromodichloromethane	U		0.0315	0.100	1	11/12/2020 20:14	WG1575337
Bromoform	U		0.239	1.00	1	11/12/2020 20:14	WG1575337
Bromomethane	U		0.148	0.500	1	11/12/2020 20:14	WG1575337
n-Butylbenzene	U		0.153	0.500	1	11/12/2020 20:14	WG1575337
sec-Butylbenzene	U		0.101	0.500	1	11/12/2020 20:14	WG1575337
tert-Butylbenzene	U		0.0620	0.200	1	11/12/2020 20:14	WG1575337
Carbon tetrachloride	U		0.0432	0.200	1	11/12/2020 20:14	WG1575337
Chlorobenzene	U		0.0229	0.100	1	11/12/2020 20:14	WG1575337
Chlorodibromomethane	U		0.0180	0.100	1	11/12/2020 20:14	WG1575337
Chloroethane	U		0.0432	0.200	1	11/12/2020 20:14	WG1575337
Chloroform	U		0.0166	0.100	1	11/12/2020 20:14	WG1575337
Chloromethane	U		0.0556	0.500	1	11/12/2020 20:14	WG1575337
2-Chlorotoluene	U		0.0368	0.100	1	11/12/2020 20:14	WG1575337
4-Chlorotoluene	U		0.0452	0.200	1	11/12/2020 20:14	WG1575337
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/12/2020 20:14	WG1575337
1,2-Dibromoethane	U		0.0210	0.100	1	11/12/2020 20:14	WG1575337
Dibromomethane	U		0.0400	0.200	1	11/12/2020 20:14	WG1575337
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/12/2020 20:14	WG1575337
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/12/2020 20:14	WG1575337
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/12/2020 20:14	WG1575337
Dichlorodifluoromethane	U		0.0327	0.100	1	11/12/2020 20:14	WG1575337
1,1-Dichloroethane	U		0.0230	0.100	1	11/12/2020 20:14	WG1575337
1,2-Dichloroethane	U		0.0190	0.100	1	11/12/2020 20:14	WG1575337
1,1-Dichloroethene	U		0.0200	0.100	1	11/12/2020 20:14	WG1575337
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/15/2020 10:03	WG1575966
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/12/2020 20:14	WG1575337
1,2-Dichloropropane	U		0.0508	0.200	1	11/12/2020 20:14	WG1575337
1,1-Dichloropropene	U		0.0280	0.100	1	11/12/2020 20:14	WG1575337
1,3-Dichloropropane	U		0.0700	0.200	1	11/12/2020 20:14	WG1575337
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/12/2020 20:14	WG1575337
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/12/2020 20:14	WG1575337
2,2-Dichloropropane	U		0.0317	0.100	1	11/12/2020 20:14	WG1575337
Di-isopropyl ether	U		0.0140	0.0400	1	11/12/2020 20:14	WG1575337
Ethylbenzene	U		0.0212	0.100	1	11/12/2020 20:14	WG1575337
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/12/2020 20:14	WG1575337
Isopropylbenzene	U		0.0345	0.100	1	11/12/2020 20:14	WG1575337
p-Isopropyltoluene	U		0.0932	0.200	1	11/12/2020 20:14	WG1575337
2-Butanone (MEK)	U		0.500	1.00	1	11/12/2020 20:14	WG1575337
Methylene Chloride	U		0.265	1.00	1	11/12/2020 20:14	WG1575337
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/12/2020 20:14	WG1575337
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/12/2020 20:14	WG1575337
Naphthalene	U		0.124	0.500	1	11/12/2020 20:14	WG1575337
n-Propylbenzene	U		0.0472	0.200	1	11/12/2020 20:14	WG1575337
Styrene	U		0.109	0.500	1	11/12/2020 20:14	WG1575337
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/12/2020 20:14	WG1575337
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/12/2020 20:14	WG1575337
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/12/2020 20:14	WG1575337
Tetrachloroethene	U		0.0280	0.100	1	11/12/2020 20:14	WG1575337
Toluene	U		0.0500	0.200	1	11/12/2020 20:14	WG1575337
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/12/2020 20:14	WG1575337
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/12/2020 20:14	WG1575337
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/12/2020 20:14	WG1575337

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/12/2020 20:14	WG1575337
Trichloroethene	U		0.0160	0.0400	1	11/12/2020 20:14	WG1575337
Trichlorofluoromethane	U		0.0200	0.100	1	11/12/2020 20:14	WG1575337
1,2,3-Trichloropropane	U		0.204	0.500	1	11/12/2020 20:14	WG1575337
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/12/2020 20:14	WG1575337
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/12/2020 20:14	WG1575337
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/12/2020 20:14	WG1575337
Vinyl chloride	U		0.0273	0.100	1	11/15/2020 10:03	WG1575966
Xylenes, Total	U		0.191	0.260	1	11/12/2020 20:14	WG1575337
Ethyl Ether	U		0.0170	0.100	1	11/12/2020 20:14	WG1575337
Tetrahydrofuran	U		0.0900	0.500	1	11/12/2020 20:14	WG1575337
Iodomethane	U		0.242	0.500	1	11/12/2020 20:14	WG1575337
Allyl chloride	U		0.580	1.00	1	11/12/2020 20:14	WG1575337
Trans-1,4-Dichloro-2-butene	U	C4	0.0560	0.200	1	11/12/2020 20:14	WG1575337
(S) Toluene-d8	*104*			*75.0-131*		*11/12/2020 20:14*	WG1575337
(S) Toluene-d8	*103*			*75.0-131*		*11/15/2020 10:03*	WG1575966
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*11/12/2020 20:14*	WG1575337
(S) 4-Bromofluorobenzene	*109*			*67.0-138*		*11/15/2020 10:03*	WG1575966
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*11/12/2020 20:14*	WG1575337
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/15/2020 10:03*	WG1575966

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	C3	0.548	1.00	1	11/15/2020 15:26	WG1576904
Acrylonitrile	U		0.0760	0.500	1	11/15/2020 15:26	WG1576904
Benzene	38.4		0.0160	0.0400	1	11/15/2020 15:26	WG1576904
Bromobenzene	U		0.0420	0.500	1	11/15/2020 15:26	WG1576904
Bromodichloromethane	U		0.0315	0.100	1	11/15/2020 15:26	WG1576904
Bromoform	U		0.239	1.00	1	11/15/2020 15:26	WG1576904
Bromomethane	U	J4	0.148	0.500	1	11/15/2020 15:26	WG1576904
n-Butylbenzene	U		0.153	0.500	1	11/15/2020 15:26	WG1576904
sec-Butylbenzene	0.159	J	0.101	0.500	1	11/15/2020 15:26	WG1576904
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2020 15:26	WG1576904
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2020 15:26	WG1576904
Chlorobenzene	U		0.0229	0.100	1	11/15/2020 15:26	WG1576904
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2020 15:26	WG1576904
Chloroethane	U	J4	0.0432	0.200	1	11/15/2020 15:26	WG1576904
Chloroform	U		0.0166	0.100	1	11/15/2020 15:26	WG1576904
Chloromethane	U		0.0556	0.500	1	11/15/2020 15:26	WG1576904
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2020 15:26	WG1576904
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2020 15:26	WG1576904
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2020 15:26	WG1576904
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2020 15:26	WG1576904
Dibromomethane	U		0.0400	0.200	1	11/15/2020 15:26	WG1576904
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2020 15:26	WG1576904
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2020 15:26	WG1576904
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2020 15:26	WG1576904
Dichlorodifluoromethane	U		0.0327	0.100	1	11/15/2020 15:26	WG1576904
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2020 15:26	WG1576904
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2020 15:26	WG1576904
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2020 15:26	WG1576904
cis-1,2-Dichloroethene	6.38		0.0276	0.100	1	11/15/2020 15:26	WG1576904
trans-1,2-Dichloroethene	0.260		0.0572	0.200	1	11/15/2020 15:26	WG1576904
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2020 15:26	WG1576904
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2020 15:26	WG1576904
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2020 15:26	WG1576904
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2020 15:26	WG1576904
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2020 15:26	WG1576904
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2020 15:26	WG1576904
Di-isopropyl ether	0.245		0.0140	0.0400	1	11/15/2020 15:26	WG1576904
Ethylbenzene	0.115		0.0212	0.100	1	11/15/2020 15:26	WG1576904
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2020 15:26	WG1576904
Isopropylbenzene	5.05		0.0345	0.100	1	11/15/2020 15:26	WG1576904
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2020 15:26	WG1576904
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2020 15:26	WG1576904
Methylene Chloride	U		0.265	1.00	1	11/15/2020 15:26	WG1576904
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2020 15:26	WG1576904
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2020 15:26	WG1576904
Naphthalene	U		0.124	0.500	1	11/15/2020 15:26	WG1576904
n-Propylbenzene	0.845		0.0472	0.200	1	11/15/2020 15:26	WG1576904
Styrene	U		0.109	0.500	1	11/15/2020 15:26	WG1576904
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2020 15:26	WG1576904
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2020 15:26	WG1576904
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2020 15:26	WG1576904
Tetrachloroethene	0.0324	J	0.0280	0.100	1	11/15/2020 15:26	WG1576904
Toluene	0.480		0.0500	0.200	1	11/15/2020 15:26	WG1576904
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/15/2020 15:26	WG1576904
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2020 15:26	WG1576904
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2020 15:26	WG1576904

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2020 15:26	WG1576904
Trichloroethene	U		0.0160	0.0400	1	11/15/2020 15:26	WG1576904
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2020 15:26	WG1576904
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2020 15:26	WG1576904
1,2,4-Trimethylbenzene	0.0797	B J	0.0464	0.200	1	11/15/2020 15:26	WG1576904
1,2,3-Trimethylbenzene	0.106	J	0.0460	0.200	1	11/15/2020 15:26	WG1576904
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2020 15:26	WG1576904
Vinyl chloride	2.73		0.0273	0.100	1	11/17/2020 04:11	WG1577289
Xylenes, Total	0.516		0.191	0.260	1	11/15/2020 15:26	WG1576904
Ethyl Ether	0.356		0.0170	0.100	1	11/15/2020 15:26	WG1576904
Tetrahydrofuran	U	C3	0.0900	0.500	1	11/15/2020 15:26	WG1576904
Iodomethane	U		0.242	0.500	1	11/15/2020 15:26	WG1576904
Allyl chloride	U		0.580	1.00	1	11/15/2020 15:26	WG1576904
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2020 15:26	WG1576904
(S) Toluene-d8	*106*			*75.0-131*		*11/15/2020 15:26*	WG1576904
(S) Toluene-d8	*104*			*75.0-131*		*11/17/2020 04:11*	WG1577289
(S) 4-Bromofluorobenzene	*110*			*67.0-138*		*11/15/2020 15:26*	WG1576904
(S) 4-Bromofluorobenzene	*98.8*			*67.0-138*		*11/17/2020 04:11*	WG1577289
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*11/15/2020 15:26*	WG1576904
(S) 1,2-Dichloroethane-d4	*94.6*			*70.0-130*		*11/17/2020 04:11*	WG1577289

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	C3	0.548	1.00	1	11/15/2020 15:46	WG1576904
Acrylonitrile	U		0.0760	0.500	1	11/15/2020 15:46	WG1576904
Benzene	0.0314	J	0.0160	0.0400	1	11/15/2020 15:46	WG1576904
Bromobenzene	U		0.0420	0.500	1	11/15/2020 15:46	WG1576904
Bromodichloromethane	U		0.0315	0.100	1	11/15/2020 15:46	WG1576904
Bromoform	U		0.239	1.00	1	11/15/2020 15:46	WG1576904
Bromomethane	U	J4	0.148	0.500	1	11/15/2020 15:46	WG1576904
n-Butylbenzene	U		0.153	0.500	1	11/15/2020 15:46	WG1576904
sec-Butylbenzene	U		0.101	0.500	1	11/15/2020 15:46	WG1576904
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2020 15:46	WG1576904
Carbon tetrachloride	0.118	J	0.0432	0.200	1	11/15/2020 15:46	WG1576904
Chlorobenzene	U		0.0229	0.100	1	11/15/2020 15:46	WG1576904
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2020 15:46	WG1576904
Chloroethane	U	J4	0.0432	0.200	1	11/15/2020 15:46	WG1576904
Chloroform	0.0515	J	0.0166	0.100	1	11/15/2020 15:46	WG1576904
Chloromethane	U		0.0556	0.500	1	11/15/2020 15:46	WG1576904
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2020 15:46	WG1576904
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2020 15:46	WG1576904
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2020 15:46	WG1576904
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2020 15:46	WG1576904
Dibromomethane	U		0.0400	0.200	1	11/15/2020 15:46	WG1576904
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2020 15:46	WG1576904
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2020 15:46	WG1576904
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2020 15:46	WG1576904
Dichlorodifluoromethane	U		0.0327	0.100	1	11/15/2020 15:46	WG1576904
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2020 15:46	WG1576904
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2020 15:46	WG1576904
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2020 15:46	WG1576904
cis-1,2-Dichloroethene	0.107		0.0276	0.100	1	11/15/2020 15:46	WG1576904
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2020 15:46	WG1576904
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2020 15:46	WG1576904
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2020 15:46	WG1576904
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2020 15:46	WG1576904
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2020 15:46	WG1576904
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2020 15:46	WG1576904
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2020 15:46	WG1576904
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2020 15:46	WG1576904
Ethylbenzene	U		0.0212	0.100	1	11/15/2020 15:46	WG1576904
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2020 15:46	WG1576904
Isopropylbenzene	0.0704	J	0.0345	0.100	1	11/15/2020 15:46	WG1576904
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2020 15:46	WG1576904
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2020 15:46	WG1576904
Methylene Chloride	U		0.265	1.00	1	11/15/2020 15:46	WG1576904
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2020 15:46	WG1576904
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2020 15:46	WG1576904
Naphthalene	U		0.124	0.500	1	11/15/2020 15:46	WG1576904
n-Propylbenzene	U		0.0472	0.200	1	11/15/2020 15:46	WG1576904
Styrene	U		0.109	0.500	1	11/15/2020 15:46	WG1576904
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2020 15:46	WG1576904
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2020 15:46	WG1576904
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2020 15:46	WG1576904
Tetrachloroethene	U		0.0280	0.100	1	11/15/2020 15:46	WG1576904
Toluene	0.234		0.0500	0.200	1	11/15/2020 15:46	WG1576904
1,2,3-Trichlorobenzene	U	J0	0.0250	0.500	1	11/15/2020 15:46	WG1576904
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2020 15:46	WG1576904
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2020 15:46	WG1576904

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2020 15:46	WG1576904
Trichloroethene	U		0.0160	0.0400	1	11/15/2020 15:46	WG1576904
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2020 15:46	WG1576904
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2020 15:46	WG1576904
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2020 15:46	WG1576904
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2020 15:46	WG1576904
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2020 15:46	WG1576904
Vinyl chloride	U		0.0273	0.100	1	11/17/2020 04:30	WG1577289
Xylenes, Total	U		0.191	0.260	1	11/15/2020 15:46	WG1576904
Ethyl Ether	U		0.0170	0.100	1	11/15/2020 15:46	WG1576904
Tetrahydrofuran	U	C3	0.0900	0.500	1	11/15/2020 15:46	WG1576904
Iodomethane	U		0.242	0.500	1	11/15/2020 15:46	WG1576904
Allyl chloride	U		0.580	1.00	1	11/15/2020 15:46	WG1576904
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2020 15:46	WG1576904
(S) Toluene-d8	*104*			*75.0-131*		*11/15/2020 15:46*	WG1576904
(S) Toluene-d8	*106*			*75.0-131*		*11/17/2020 04:30*	WG1577289
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*11/15/2020 15:46*	WG1576904
(S) 4-Bromofluorobenzene	*97.6*			*67.0-138*		*11/17/2020 04:30*	WG1577289
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/15/2020 15:46*	WG1576904
(S) 1,2-Dichloroethane-d4	*90.3*			*70.0-130*		*11/17/2020 04:30*	WG1577289

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	C3	0.548	1.00	1	11/15/2020 16:07	WG1576904
Acrylonitrile	U		0.0760	0.500	1	11/15/2020 16:07	WG1576904
Benzene	U		0.0160	0.0400	1	11/15/2020 16:07	WG1576904
Bromobenzene	U		0.0420	0.500	1	11/15/2020 16:07	WG1576904
Bromodichloromethane	U		0.0315	0.100	1	11/15/2020 16:07	WG1576904
Bromoform	U		0.239	1.00	1	11/15/2020 16:07	WG1576904
Bromomethane	U	J4	0.148	0.500	1	11/15/2020 16:07	WG1576904
n-Butylbenzene	U		0.153	0.500	1	11/15/2020 16:07	WG1576904
sec-Butylbenzene	U		0.101	0.500	1	11/15/2020 16:07	WG1576904
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2020 16:07	WG1576904
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2020 16:07	WG1576904
Chlorobenzene	U		0.0229	0.100	1	11/15/2020 16:07	WG1576904
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2020 16:07	WG1576904
Chloroethane	U	J4	0.0432	0.200	1	11/15/2020 16:07	WG1576904
Chloroform	U		0.0166	0.100	1	11/15/2020 16:07	WG1576904
Chloromethane	U		0.0556	0.500	1	11/15/2020 16:07	WG1576904
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2020 16:07	WG1576904
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2020 16:07	WG1576904
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2020 16:07	WG1576904
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2020 16:07	WG1576904
Dibromomethane	U		0.0400	0.200	1	11/15/2020 16:07	WG1576904
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2020 16:07	WG1576904
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2020 16:07	WG1576904
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2020 16:07	WG1576904
Dichlorodifluoromethane	U		0.0327	0.100	1	11/15/2020 16:07	WG1576904
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2020 16:07	WG1576904
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2020 16:07	WG1576904
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2020 16:07	WG1576904
cis-1,2-Dichloroethene	0.0418	J	0.0276	0.100	1	11/15/2020 16:07	WG1576904
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2020 16:07	WG1576904
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2020 16:07	WG1576904
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2020 16:07	WG1576904
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2020 16:07	WG1576904
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2020 16:07	WG1576904
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2020 16:07	WG1576904
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2020 16:07	WG1576904
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2020 16:07	WG1576904
Ethylbenzene	U		0.0212	0.100	1	11/15/2020 16:07	WG1576904
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2020 16:07	WG1576904
Isopropylbenzene	U		0.0345	0.100	1	11/15/2020 16:07	WG1576904
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2020 16:07	WG1576904
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2020 16:07	WG1576904
Methylene Chloride	U		0.265	1.00	1	11/15/2020 16:07	WG1576904
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2020 16:07	WG1576904
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2020 16:07	WG1576904
Naphthalene	U		0.124	0.500	1	11/15/2020 16:07	WG1576904
n-Propylbenzene	U		0.0472	0.200	1	11/15/2020 16:07	WG1576904
Styrene	U		0.109	0.500	1	11/15/2020 16:07	WG1576904
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2020 16:07	WG1576904
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2020 16:07	WG1576904
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2020 16:07	WG1576904
Tetrachloroethene	U		0.0280	0.100	1	11/15/2020 16:07	WG1576904
Toluene	0.182	J	0.0500	0.200	1	11/15/2020 16:07	WG1576904
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/15/2020 16:07	WG1576904
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2020 16:07	WG1576904
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2020 16:07	WG1576904

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2020 16:07	WG1576904
Trichloroethene	U		0.0160	0.0400	1	11/15/2020 16:07	WG1576904
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2020 16:07	WG1576904
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2020 16:07	WG1576904
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2020 16:07	WG1576904
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2020 16:07	WG1576904
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2020 16:07	WG1576904
Vinyl chloride	U	J4	0.0273	0.100	1	11/15/2020 16:07	WG1576904
Xylenes, Total	U		0.191	0.260	1	11/15/2020 16:07	WG1576904
Ethyl Ether	U		0.0170	0.100	1	11/15/2020 16:07	WG1576904
Tetrahydrofuran	U	C3	0.0900	0.500	1	11/15/2020 16:07	WG1576904
Iodomethane	U		0.242	0.500	1	11/15/2020 16:07	WG1576904
Allyl chloride	U		0.580	1.00	1	11/15/2020 16:07	WG1576904
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2020 16:07	WG1576904
(S) Toluene-d8	*104*			*75.0-131*		*11/15/2020 16:07*	WG1576904
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*11/15/2020 16:07*	WG1576904
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*11/15/2020 16:07*	WG1576904

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	0.582	C3 J	0.548	1.00	1	11/15/2020 16:28	WG1576904
Acrylonitrile	U		0.0760	0.500	1	11/15/2020 16:28	WG1576904
Benzene	0.473		0.0160	0.0400	1	11/15/2020 16:28	WG1576904
Bromobenzene	U		0.0420	0.500	1	11/15/2020 16:28	WG1576904
Bromodichloromethane	U		0.0315	0.100	1	11/15/2020 16:28	WG1576904
Bromoform	U		0.239	1.00	1	11/15/2020 16:28	WG1576904
Bromomethane	U	J4	0.148	0.500	1	11/15/2020 16:28	WG1576904
n-Butylbenzene	U		0.153	0.500	1	11/15/2020 16:28	WG1576904
sec-Butylbenzene	U		0.101	0.500	1	11/15/2020 16:28	WG1576904
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2020 16:28	WG1576904
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2020 16:28	WG1576904
Chlorobenzene	U		0.0229	0.100	1	11/15/2020 16:28	WG1576904
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2020 16:28	WG1576904
Chloroethane	U	J4	0.0432	0.200	1	11/15/2020 16:28	WG1576904
Chloroform	U		0.0166	0.100	1	11/15/2020 16:28	WG1576904
Chloromethane	U		0.0556	0.500	1	11/15/2020 16:28	WG1576904
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2020 16:28	WG1576904
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2020 16:28	WG1576904
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2020 16:28	WG1576904
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2020 16:28	WG1576904
Dibromomethane	U		0.0400	0.200	1	11/15/2020 16:28	WG1576904
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2020 16:28	WG1576904
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2020 16:28	WG1576904
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2020 16:28	WG1576904
Dichlorodifluoromethane	U		0.0327	0.100	1	11/15/2020 16:28	WG1576904
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2020 16:28	WG1576904
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2020 16:28	WG1576904
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2020 16:28	WG1576904
cis-1,2-Dichloroethene	0.187		0.0276	0.100	1	11/15/2020 16:28	WG1576904
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2020 16:28	WG1576904
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2020 16:28	WG1576904
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2020 16:28	WG1576904
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2020 16:28	WG1576904
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2020 16:28	WG1576904
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2020 16:28	WG1576904
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2020 16:28	WG1576904
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2020 16:28	WG1576904
Ethylbenzene	0.0388	J	0.0212	0.100	1	11/15/2020 16:28	WG1576904
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2020 16:28	WG1576904
Isopropylbenzene	0.0465	J	0.0345	0.100	1	11/15/2020 16:28	WG1576904
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2020 16:28	WG1576904
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2020 16:28	WG1576904
Methylene Chloride	U		0.265	1.00	1	11/15/2020 16:28	WG1576904
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2020 16:28	WG1576904
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2020 16:28	WG1576904
Naphthalene	U		0.124	0.500	1	11/15/2020 16:28	WG1576904
n-Propylbenzene	U		0.0472	0.200	1	11/15/2020 16:28	WG1576904
Styrene	U		0.109	0.500	1	11/15/2020 16:28	WG1576904
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2020 16:28	WG1576904
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2020 16:28	WG1576904
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2020 16:28	WG1576904
Tetrachloroethene	0.0726	J	0.0280	0.100	1	11/15/2020 16:28	WG1576904
Toluene	U		0.0500	0.200	1	11/15/2020 16:28	WG1576904
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/15/2020 16:28	WG1576904
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2020 16:28	WG1576904
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2020 16:28	WG1576904

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2020 16:28	WG1576904
Trichloroethene	U		0.0160	0.0400	1	11/15/2020 16:28	WG1576904
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2020 16:28	WG1576904
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2020 16:28	WG1576904
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2020 16:28	WG1576904
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2020 16:28	WG1576904
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2020 16:28	WG1576904
Vinyl chloride	10.5		0.0273	0.100	1	11/17/2020 04:48	WG1577289
Xylenes, Total	U		0.191	0.260	1	11/15/2020 16:28	WG1576904
Ethyl Ether	U		0.0170	0.100	1	11/15/2020 16:28	WG1576904
Tetrahydrofuran	U	C3	0.0900	0.500	1	11/15/2020 16:28	WG1576904
Iodomethane	U		0.242	0.500	1	11/15/2020 16:28	WG1576904
Allyl chloride	U		0.580	1.00	1	11/15/2020 16:28	WG1576904
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2020 16:28	WG1576904
(S) Toluene-d8	*104*			*75.0-131*		*11/15/2020 16:28*	WG1576904
(S) Toluene-d8	*105*			*75.0-131*		*11/17/2020 04:48*	WG1577289
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*11/15/2020 16:28*	WG1576904
(S) 4-Bromofluorobenzene	*96.2*			*67.0-138*		*11/17/2020 04:48*	WG1577289
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*11/15/2020 16:28*	WG1576904
(S) 1,2-Dichloroethane-d4	*91.6*			*70.0-130*		*11/17/2020 04:48*	WG1577289

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	C3	0.548	1.00	1	11/15/2020 16:48	WG1576904
Acrylonitrile	U		0.0760	0.500	1	11/15/2020 16:48	WG1576904
Benzene	0.0407		0.0160	0.0400	1	11/15/2020 16:48	WG1576904
Bromobenzene	U		0.0420	0.500	1	11/15/2020 16:48	WG1576904
Bromodichloromethane	U		0.0315	0.100	1	11/15/2020 16:48	WG1576904
Bromoform	U		0.239	1.00	1	11/15/2020 16:48	WG1576904
Bromomethane	U	J4	0.148	0.500	1	11/15/2020 16:48	WG1576904
n-Butylbenzene	U		0.153	0.500	1	11/15/2020 16:48	WG1576904
sec-Butylbenzene	U		0.101	0.500	1	11/15/2020 16:48	WG1576904
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2020 16:48	WG1576904
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2020 16:48	WG1576904
Chlorobenzene	U		0.0229	0.100	1	11/15/2020 16:48	WG1576904
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2020 16:48	WG1576904
Chloroethane	U	J4	0.0432	0.200	1	11/15/2020 16:48	WG1576904
Chloroform	U		0.0166	0.100	1	11/15/2020 16:48	WG1576904
Chloromethane	U		0.0556	0.500	1	11/15/2020 16:48	WG1576904
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2020 16:48	WG1576904
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2020 16:48	WG1576904
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2020 16:48	WG1576904
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2020 16:48	WG1576904
Dibromomethane	U		0.0400	0.200	1	11/15/2020 16:48	WG1576904
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2020 16:48	WG1576904
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2020 16:48	WG1576904
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2020 16:48	WG1576904
Dichlorodifluoromethane	U		0.0327	0.100	1	11/15/2020 16:48	WG1576904
1,1-Dichloroethane	1.08		0.0230	0.100	1	11/15/2020 16:48	WG1576904
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2020 16:48	WG1576904
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2020 16:48	WG1576904
cis-1,2-Dichloroethene	0.0728	J	0.0276	0.100	1	11/15/2020 16:48	WG1576904
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2020 16:48	WG1576904
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2020 16:48	WG1576904
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2020 16:48	WG1576904
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2020 16:48	WG1576904
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2020 16:48	WG1576904
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2020 16:48	WG1576904
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2020 16:48	WG1576904
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2020 16:48	WG1576904
Ethylbenzene	0.0354	J	0.0212	0.100	1	11/15/2020 16:48	WG1576904
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2020 16:48	WG1576904
Isopropylbenzene	U		0.0345	0.100	1	11/15/2020 16:48	WG1576904
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2020 16:48	WG1576904
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2020 16:48	WG1576904
Methylene Chloride	U		0.265	1.00	1	11/15/2020 16:48	WG1576904
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2020 16:48	WG1576904
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2020 16:48	WG1576904
Naphthalene	U		0.124	0.500	1	11/15/2020 16:48	WG1576904
n-Propylbenzene	0.0566	J	0.0472	0.200	1	11/15/2020 16:48	WG1576904
Styrene	U		0.109	0.500	1	11/15/2020 16:48	WG1576904
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2020 16:48	WG1576904
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2020 16:48	WG1576904
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2020 16:48	WG1576904
Tetrachloroethene	U		0.0280	0.100	1	11/15/2020 16:48	WG1576904
Toluene	0.230		0.0500	0.200	1	11/15/2020 16:48	WG1576904
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/15/2020 16:48	WG1576904
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2020 16:48	WG1576904
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2020 16:48	WG1576904

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2020 16:48	WG1576904
Trichloroethene	U		0.0160	0.0400	1	11/15/2020 16:48	WG1576904
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2020 16:48	WG1576904
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2020 16:48	WG1576904
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2020 16:48	WG1576904
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2020 16:48	WG1576904
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2020 16:48	WG1576904
Vinyl chloride	0.264		0.0273	0.100	1	11/17/2020 05:07	WG1577289
Xylenes, Total	0.219	J	0.191	0.260	1	11/15/2020 16:48	WG1576904
Ethyl Ether	U		0.0170	0.100	1	11/15/2020 16:48	WG1576904
Tetrahydrofuran	U	C3	0.0900	0.500	1	11/15/2020 16:48	WG1576904
Iodomethane	U		0.242	0.500	1	11/15/2020 16:48	WG1576904
Allyl chloride	U		0.580	1.00	1	11/15/2020 16:48	WG1576904
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2020 16:48	WG1576904
(S) Toluene-d8	*105*			*75.0-131*		*11/15/2020 16:48*	WG1576904
(S) Toluene-d8	*106*			*75.0-131*		*11/17/2020 05:07*	WG1577289
(S) 4-Bromofluorobenzene	*111*			*67.0-138*		*11/15/2020 16:48*	WG1576904
(S) 4-Bromofluorobenzene	*99.3*			*67.0-138*		*11/17/2020 05:07*	WG1577289
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/15/2020 16:48*	WG1576904
(S) 1,2-Dichloroethane-d4	*91.3*			*70.0-130*		*11/17/2020 05:07*	WG1577289

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	C3	0.548	1.00	1	11/15/2020 17:08	WG1576904
Acrylonitrile	U		0.0760	0.500	1	11/15/2020 17:08	WG1576904
Benzene	0.0275	J	0.0160	0.0400	1	11/15/2020 17:08	WG1576904
Bromobenzene	U		0.0420	0.500	1	11/15/2020 17:08	WG1576904
Bromodichloromethane	U		0.0315	0.100	1	11/15/2020 17:08	WG1576904
Bromoform	U		0.239	1.00	1	11/15/2020 17:08	WG1576904
Bromomethane	U	J4	0.148	0.500	1	11/15/2020 17:08	WG1576904
n-Butylbenzene	U		0.153	0.500	1	11/15/2020 17:08	WG1576904
sec-Butylbenzene	U		0.101	0.500	1	11/15/2020 17:08	WG1576904
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2020 17:08	WG1576904
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2020 17:08	WG1576904
Chlorobenzene	U		0.0229	0.100	1	11/15/2020 17:08	WG1576904
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2020 17:08	WG1576904
Chloroethane	U	J4	0.0432	0.200	1	11/15/2020 17:08	WG1576904
Chloroform	U		0.0166	0.100	1	11/15/2020 17:08	WG1576904
Chloromethane	U		0.0556	0.500	1	11/15/2020 17:08	WG1576904
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2020 17:08	WG1576904
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2020 17:08	WG1576904
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2020 17:08	WG1576904
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2020 17:08	WG1576904
Dibromomethane	U		0.0400	0.200	1	11/15/2020 17:08	WG1576904
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2020 17:08	WG1576904
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2020 17:08	WG1576904
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2020 17:08	WG1576904
Dichlorodifluoromethane	U		0.0327	0.100	1	11/15/2020 17:08	WG1576904
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2020 17:08	WG1576904
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2020 17:08	WG1576904
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2020 17:08	WG1576904
cis-1,2-Dichloroethene	0.134		0.0276	0.100	1	11/15/2020 17:08	WG1576904
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2020 17:08	WG1576904
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2020 17:08	WG1576904
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2020 17:08	WG1576904
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2020 17:08	WG1576904
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2020 17:08	WG1576904
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2020 17:08	WG1576904
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2020 17:08	WG1576904
Di-isopropyl ether	0.0445		0.0140	0.0400	1	11/15/2020 17:08	WG1576904
Ethylbenzene	U		0.0212	0.100	1	11/15/2020 17:08	WG1576904
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2020 17:08	WG1576904
Isopropylbenzene	0.0868	J	0.0345	0.100	1	11/15/2020 17:08	WG1576904
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2020 17:08	WG1576904
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2020 17:08	WG1576904
Methylene Chloride	U		0.265	1.00	1	11/15/2020 17:08	WG1576904
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2020 17:08	WG1576904
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2020 17:08	WG1576904
Naphthalene	U		0.124	0.500	1	11/15/2020 17:08	WG1576904
n-Propylbenzene	U		0.0472	0.200	1	11/15/2020 17:08	WG1576904
Styrene	U		0.109	0.500	1	11/15/2020 17:08	WG1576904
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2020 17:08	WG1576904
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2020 17:08	WG1576904
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2020 17:08	WG1576904
Tetrachloroethene	U		0.0280	0.100	1	11/15/2020 17:08	WG1576904
Toluene	0.348		0.0500	0.200	1	11/15/2020 17:08	WG1576904
1,2,3-Trichlorobenzene	U	J0	0.0250	0.500	1	11/15/2020 17:08	WG1576904
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2020 17:08	WG1576904
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2020 17:08	WG1576904

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2020 17:08	WG1576904
Trichloroethene	0.0554		0.0160	0.0400	1	11/15/2020 17:08	WG1576904
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2020 17:08	WG1576904
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2020 17:08	WG1576904
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2020 17:08	WG1576904
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2020 17:08	WG1576904
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2020 17:08	WG1576904
Vinyl chloride	U	J4	0.0273	0.100	1	11/15/2020 17:08	WG1576904
Xylenes, Total	U		0.191	0.260	1	11/15/2020 17:08	WG1576904
Ethyl Ether	0.0585	J	0.0170	0.100	1	11/15/2020 17:08	WG1576904
Tetrahydrofuran	U	C3	0.0900	0.500	1	11/15/2020 17:08	WG1576904
Iodomethane	U		0.242	0.500	1	11/15/2020 17:08	WG1576904
Allyl chloride	U		0.580	1.00	1	11/15/2020 17:08	WG1576904
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2020 17:08	WG1576904
(S) Toluene-d8	*103*			*75.0-131*		*11/15/2020 17:08*	WG1576904
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*11/15/2020 17:08*	WG1576904
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/15/2020 17:08*	WG1576904

Method Blank (MB)

(MB) R3592677-2 11/12/20 09:56

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	0.154	J	0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00

Method Blank (MB)

(MB) R3592677-2 11/12/20 09:56

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	0.178	J	0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	0.202	J	0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	0.252	J	0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*105*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*97.7*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3592677-1 11/12/20 09:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	22.1	88.4	10.0-160	
Acrylonitrile	25.0	25.0	100	45.0-153	

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

Laboratory Control Sample (LCS)

(LCS) R3592677-1 11/12/20 09:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	5.00	4.58	91.6	70.0-123	
Bromobenzene	5.00	4.26	85.2	73.0-121	
Bromodichloromethane	5.00	4.62	92.4	73.0-121	
Bromoform	5.00	5.03	101	64.0-132	
Bromomethane	5.00	4.39	87.8	56.0-147	
n-Butylbenzene	5.00	4.83	96.6	68.0-135	
sec-Butylbenzene	5.00	4.71	94.2	74.0-130	
tert-Butylbenzene	5.00	4.86	97.2	75.0-127	
Carbon tetrachloride	5.00	5.33	107	66.0-128	
Chlorobenzene	5.00	4.85	97.0	76.0-128	
Chlorodibromomethane	5.00	4.81	96.2	74.0-127	
Chloroethane	5.00	4.33	86.6	61.0-134	
Chloroform	5.00	4.76	95.2	72.0-123	
Chloromethane	5.00	4.70	94.0	51.0-138	
2-Chlorotoluene	5.00	4.44	88.8	75.0-124	
4-Chlorotoluene	5.00	4.41	88.2	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	5.03	101	59.0-130	
1,2-Dibromoethane	5.00	4.99	99.8	74.0-128	
Dibromomethane	5.00	4.91	98.2	75.0-122	
1,2-Dichlorobenzene	5.00	4.81	96.2	76.0-124	
1,3-Dichlorobenzene	5.00	4.81	96.2	76.0-125	
1,4-Dichlorobenzene	5.00	4.66	93.2	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	2.44	48.8	45.0-143	
Dichlorodifluoromethane	5.00	5.20	104	43.0-156	
1,1-Dichloroethane	5.00	4.74	94.8	70.0-127	
1,2-Dichloroethane	5.00	4.92	98.4	65.0-131	
1,1-Dichloroethene	5.00	4.58	91.6	65.0-131	
trans-1,2-Dichloroethene	5.00	4.94	98.8	71.0-125	
1,2-Dichloropropane	5.00	4.81	96.2	74.0-125	
1,1-Dichloropropene	5.00	4.72	94.4	73.0-125	
1,3-Dichloropropane	5.00	4.84	96.8	80.0-125	
cis-1,3-Dichloropropene	5.00	4.86	97.2	76.0-127	
trans-1,3-Dichloropropene	5.00	4.85	97.0	73.0-127	
2,2-Dichloropropane	5.00	5.54	111	59.0-135	
Di-isopropyl ether	5.00	4.79	95.8	60.0-136	
Ethylbenzene	5.00	4.78	95.6	74.0-126	
Ethyl ether	5.00	5.20	104	64.0-137	
Hexachloro-1,3-butadiene	5.00	5.31	106	57.0-150	
Iodomethane	25.0	25.1	100	74.0-134	
Isopropylbenzene	5.00	4.95	99.0	72.0-127	

Laboratory Control Sample (LCS)

(LCS) R3592677-1 11/12/20 09:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
p-Isopropyltoluene	5.00	4.90	98.0	72.0-133	
2-Butanone (MEK)	25.0	25.0	100	30.0-160	
Methylene Chloride	5.00	5.37	107	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	23.5	94.0	56.0-143	
Methyl tert-butyl ether	5.00	4.96	99.2	66.0-132	
Naphthalene	5.00	5.11	102	59.0-130	
n-Propylbenzene	5.00	4.46	89.2	74.0-126	
Styrene	5.00	4.86	97.2	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	5.34	107	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	4.39	87.8	68.0-128	
Tetrachloroethene	5.00	5.01	100	70.0-136	
Tetrahydrofuran	5.00	4.01	80.2	37.0-146	
Toluene	5.00	4.62	92.4	75.0-121	
1,1,2-Trichlorotrifluoroethane	5.00	4.78	95.6	61.0-139	
1,2,3-Trichlorobenzene	5.00	5.30	106	59.0-139	
1,2,4-Trichlorobenzene	5.00	5.28	106	62.0-137	
1,1,1-Trichloroethane	5.00	5.28	106	69.0-126	
1,1,2-Trichloroethane	5.00	4.93	98.6	78.0-123	
Trichloroethene	5.00	4.98	99.6	76.0-126	
Trichlorofluoromethane	5.00	4.86	97.2	61.0-142	
1,2,3-Trichloropropane	5.00	4.96	99.2	67.0-129	
1,2,3-Trimethylbenzene	5.00	4.49	89.8	74.0-124	
1,2,4-Trimethylbenzene	5.00	4.60	92.0	70.0-126	
1,3,5-Trimethylbenzene	5.00	4.49	89.8	73.0-127	
Xylenes, Total	15.0	14.2	94.7	72.0-127	
Allyl chloride	25.0	22.8	91.2	70.0-131	
(S) Toluene-d8			*101*	*75.0-131*	
(S) 4-Bromofluorobenzene			*107*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*102*	*70.0-130*	

Method Blank (MB)

(MB) R3593571-3 11/14/20 23:45

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*107*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*97.2*			*70.0-130*

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

(LCS) R3593571-1 11/14/20 22:44 • (LCSD) R3593571-2 11/14/20 23:04

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
cis-1,2-Dichloroethene	5.00	5.61	5.19	112	104	73.0-125			7.78	20
Vinyl chloride	5.00	4.96	4.50	99.2	90.0	63.0-134			9.73	20
(S) Toluene-d8				*102*	*103*	*75.0-131*				
(S) 4-Bromofluorobenzene				*108*	*108*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*98.6*	*98.1*	*70.0-130*				

Method Blank (MB)

(MB) R3593536-3 11/15/20 13:07

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	0.156	J	0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	0.0686	J	0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100

Method Blank (MB)

(MB) R3593536-3 11/15/20 13:07

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	0.111	J	0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	0.326	J	0.0250	0.500
1,2,4-Trichlorobenzene	0.194	J	0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	0.0595	J	0.0464	0.200
1,3,5-Trimethylbenzene	0.0524	J	0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*110*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*

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

(LCS) R3593536-1 11/15/20 12:06 • (LCSD) R3593536-2 11/15/20 12:27

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	16.0	16.1	64.0	64.4	10.0-160			0.623	31
Acrylonitrile	25.0	23.7	24.1	94.8	96.4	45.0-153			1.67	22
Benzene	5.00	4.79	4.89	95.8	97.8	70.0-123			2.07	20
Bromobenzene	5.00	4.41	4.27	88.2	85.4	73.0-121			3.23	20
Bromodichloromethane	5.00	5.15	5.32	103	106	73.0-121			3.25	20
Bromoform	5.00	5.58	5.54	112	111	64.0-132			0.719	20
Bromomethane	5.00	7.65	7.46	153	149	56.0-147	J4	J4	2.51	20
n-Butylbenzene	5.00	4.55	4.65	91.0	93.0	68.0-135			2.17	20
sec-Butylbenzene	5.00	4.73	5.46	94.6	109	74.0-130			14.3	20
tert-Butylbenzene	5.00	4.97	5.68	99.4	114	75.0-127			13.3	20
Carbon tetrachloride	5.00	6.06	6.21	121	124	66.0-128			2.44	20
Chlorobenzene	5.00	5.08	5.19	102	104	76.0-128			2.14	20
Chlorodibromomethane	5.00	5.17	5.34	103	107	74.0-127			3.24	20
Chloroethane	5.00	7.18	7.55	144	151	61.0-134	J4	J4	5.02	20
Chloroform	5.00	5.25	5.37	105	107	72.0-123			2.26	20
Chloromethane	5.00	5.84	6.31	117	126	51.0-138			7.74	20
2-Chlorotoluene	5.00	4.64	5.16	92.8	103	75.0-124			10.6	20
4-Chlorotoluene	5.00	4.63	5.04	92.6	101	75.0-124			8.48	20
1,2-Dibromo-3-Chloropropane	5.00	5.19	4.71	104	94.2	59.0-130			9.70	20
1,2-Dibromoethane	5.00	5.13	5.29	103	106	74.0-128			3.07	20
Dibromomethane	5.00	5.27	5.34	105	107	75.0-122			1.32	20
1,2-Dichlorobenzene	5.00	4.99	4.87	99.8	97.4	76.0-124			2.43	20
1,3-Dichlorobenzene	5.00	4.92	5.07	98.4	101	76.0-125			3.00	20
1,4-Dichlorobenzene	5.00	4.74	4.75	94.8	95.0	77.0-121			0.211	20
trans-1,4-Dichloro-2-butene	5.00	3.43	3.68	68.6	73.6	45.0-143			7.03	20
Dichlorodifluoromethane	5.00	5.88	6.14	118	123	43.0-156			4.33	20
1,1-Dichloroethane	5.00	5.01	5.11	100	102	70.0-127			1.98	20
1,2-Dichloroethane	5.00	5.34	5.41	107	108	65.0-131			1.30	20
1,1-Dichloroethene	5.00	4.58	4.87	91.6	97.4	65.0-131			6.14	20
cis-1,2-Dichloroethene	5.00	5.19	5.11	104	102	73.0-125			1.55	20
trans-1,2-Dichloroethene	5.00	5.20	5.03	104	101	71.0-125			3.32	20
1,2-Dichloropropane	5.00	4.95	4.95	99.0	99.0	74.0-125			0.000	20
1,1-Dichloropropene	5.00	4.98	5.30	99.6	106	73.0-125			6.23	20
1,3-Dichloropropane	5.00	4.82	5.00	96.4	100	80.0-125			3.67	20
cis-1,3-Dichloropropene	5.00	5.08	5.26	102	105	76.0-127			3.48	20
trans-1,3-Dichloropropene	5.00	4.90	5.08	98.0	102	73.0-127			3.61	20
2,2-Dichloropropane	5.00	4.72	4.64	94.4	92.8	59.0-135			1.71	20
Di-isopropyl ether	5.00	4.84	4.92	96.8	98.4	60.0-136			1.64	20
Ethylbenzene	5.00	4.94	5.17	98.8	103	74.0-126			4.55	20
Ethyl ether	5.00	5.12	4.97	102	99.4	64.0-137			2.97	20

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

(LCS) R3593536-1 11/15/20 12:06 • (LCSD) R3593536-2 11/15/20 12:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	5.30	5.61	106	112	57.0-150			5.68	20
Iodomethane	25.0	25.8	25.7	103	103	74.0-134			0.388	20
Isopropylbenzene	5.00	5.25	5.69	105	114	72.0-127			8.04	20
p-Isopropyltoluene	5.00	4.98	5.58	99.6	112	72.0-133			11.4	20
2-Butanone (MEK)	25.0	22.2	23.2	88.8	92.8	30.0-160			4.41	24
Methylene Chloride	5.00	4.89	5.03	97.8	101	68.0-123			2.82	20
4-Methyl-2-pentanone (MIBK)	25.0	22.9	24.0	91.6	96.0	56.0-143			4.69	20
Methyl tert-butyl ether	5.00	5.26	5.22	105	104	66.0-132			0.763	20
Naphthalene	5.00	5.06	5.29	101	106	59.0-130			4.44	20
n-Propylbenzene	5.00	4.51	4.49	90.2	89.8	74.0-126			0.444	20
Styrene	5.00	5.15	5.26	103	105	72.0-127			2.11	20
1,1,1,2-Tetrachloroethane	5.00	5.55	5.77	111	115	74.0-129			3.89	20
1,1,2,2-Tetrachloroethane	5.00	4.20	4.55	84.0	91.0	68.0-128			8.00	20
Tetrachloroethene	5.00	5.17	5.57	103	111	70.0-136			7.45	20
Tetrahydrofuran	5.00	3.40	3.40	68.0	68.0	37.0-146			0.000	24
Toluene	5.00	4.85	5.10	97.0	102	75.0-121			5.03	20
1,1,2-Trichlorotrifluoroethane	5.00	3.73	3.29	74.6	65.8	61.0-139			12.5	20
1,2,3-Trichlorobenzene	5.00	5.42	5.36	108	107	59.0-139			1.11	20
1,2,4-Trichlorobenzene	5.00	5.45	5.50	109	110	62.0-137			0.913	20
1,1,1-Trichloroethane	5.00	6.19	6.24	124	125	69.0-126			0.805	20
1,1,2-Trichloroethane	5.00	4.96	5.06	99.2	101	78.0-123			2.00	20
Trichloroethene	5.00	5.29	5.52	106	110	76.0-126			4.26	20
Trichlorofluoromethane	5.00	6.00	6.12	120	122	61.0-142			1.98	20
1,2,3-Trichloropropane	5.00	5.10	5.20	102	104	67.0-129			1.94	20
1,2,3-Trimethylbenzene	5.00	4.73	4.84	94.6	96.8	74.0-124			2.30	20
1,2,4-Trimethylbenzene	5.00	4.76	5.48	95.2	110	70.0-126			14.1	20
1,3,5-Trimethylbenzene	5.00	4.84	5.43	96.8	109	73.0-127			11.5	20
Vinyl chloride	5.00	7.36	7.64	147	153	63.0-134	J4	J4	3.73	20
Xylenes, Total	15.0	14.8	15.6	98.7	104	72.0-127			5.26	20
Allyl chloride	25.0	22.9	23.3	91.6	93.2	70.0-131			1.73	20
(S) Toluene-d8				*102*	*105*	*75.0-131*				
(S) 4-Bromofluorobenzene				*109*	*117*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*106*	*108*	*70.0-130*				

Method Blank (MB)

(MB) R3593857-2 11/17/20 02:17

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*106*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.2*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*88.9*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3593857-1 11/17/20 01:39

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Vinyl chloride	5.00	4.44	88.8	63.0-134	
(S) Toluene-d8			*104*	*75.0-131*	
(S) 4-Bromofluorobenzene			*98.3*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*90.4*	*70.0-130*	

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.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C4	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Data is likely to show a low bias concerning the result.
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 met 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	LAO00356
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

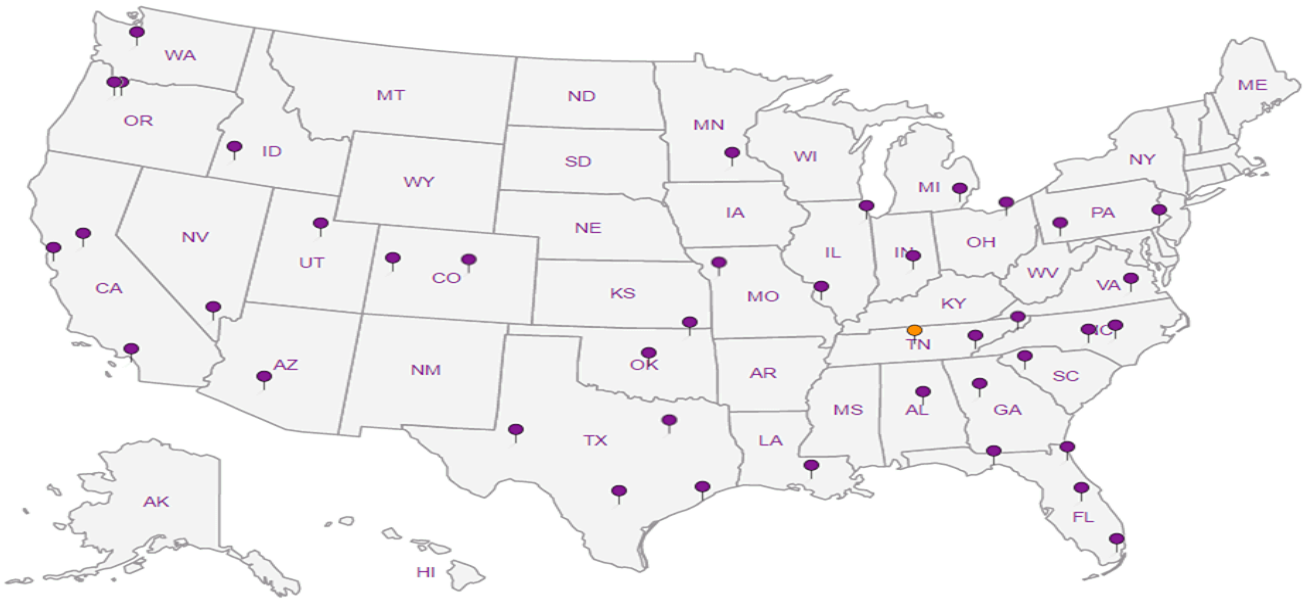
Third Party Federal Accreditations

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.



CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: **PES Environmental, Inc.**	Billing Information: **Attn: Accounts Payable 1215 4th Ave STE 1350, Seattle, WA 98161**
Address: **1215 4th Ave STE 1350, Seattle, WA 98161**	
Report To: **Bill Haldeman/Brian O'Neal**	Email To: **bhaldeman@pesenv.com; boneal@pesenv.com**
Copy To: **Kim Vik, Shannon McKernan, Karsten Springstead**	Site Collection Info/Address: **700 Dexter Ave N**
Customer Project Name/Number: American Linen **1413.001.02.501E**	State: **WA** / County/City: **King/Seattle** Time Zone Collected: [x]PT [ ]MT [ ]CT [ ]ET
Phone: 206-529-3980 Email: **agilvezan@pesenv.com**	Site/Facility ID #: **1413.001.02.501E**
Collected By (print): HRC/BLH	Purchase Order # : **1413.001.02.501E** Quote #: **PESENVSWA-ALP**
Collected By (signature):	Turnaround Date Required: Standard TAT
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Compliance Monitoring?	DW PWS ID #:	Immediately Packed on Ice:	Field Filtered (if applicable):
[x] Yes [ ] No	DW Location Code:	[x] Yes [ ] No	[ ] Yes [X] No

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	*NO3, SO4, Cl* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM (RSK175LL) 40mlAmb-HCl	TOC 250mlAmb-HCl or 250mlHDPE-HCl	Total Fe, Mn 6020 250mlHDPE-HNO3	VOCs (8260ULLC)	GRO (NWTPH-Gx)	Lab Sample # / Comments
MW-307-110620	GW	Grab	11/6/20	945				3						X		L1283292-01
MW122-110620	GW	Grab		1133				3						XX		02
MW-308-110620	GW	Grab		1233				3						XX		03
MW-305-110620	GW	Grab		1145				3						XX		04
MW-306-110620	GW	Grab		1300				3						XX		05
MW-309-110620	GW	Grab		1343				3						XX		06
MW-331-110620	GW	Grab		1510				3						XX		07
MW-310-110620	GW	Grab		1525				3						X		08
	GW	Grab														
	GW	Grab														

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 1749 9999 0005

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: ___oC
Cooler 1 Corrected Temp: _____oC
Comments:

J207

7CH. 3.6 -.0 = 3.6

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	11/6/20 1600		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 11/07/2020 09:30

Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / (NO)

Page: 1 of: 1

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

November 18, 2020

PES Environmental, Inc.- WA

Sample Delivery Group:	L1283490
Samples Received:	11/09/2020
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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MW-940-110420 L1283490-01 GW

Collected by: Sean K | Collected date/time: 11/04/20 08:15 | Received date/time: 11/09/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1576516	1	11/16/20 11:27	11/16/20 11:27	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1576989	1	11/16/20 10:16	11/16/20 10:16	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1574947	10	11/11/20 19:57	11/13/20 13:01	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1576276	10	11/14/20 05:54	11/14/20 05:54	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1576414	1	11/14/20 04:05	11/14/20 04:05	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1573882	1	11/10/20 16:04	11/10/20 16:04	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1574656	500	11/12/20 14:47	11/12/20 14:47	ADM	Mt. Juliet, TN

MW-181-110420 L1283490-02 GW

Collected by: Sean K | Collected date/time: 11/04/20 09:10 | Received date/time: 11/09/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1576516	1	11/16/20 11:43	11/16/20 11:43	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1576989	1	11/16/20 10:31	11/16/20 10:31	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1574947	10	11/11/20 19:57	11/13/20 13:04	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1576276	10	11/14/20 05:57	11/14/20 05:57	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1576414	1	11/14/20 04:09	11/14/20 04:09	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1573882	1	11/10/20 16:24	11/10/20 16:24	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1574656	500	11/12/20 15:07	11/12/20 15:07	ADM	Mt. Juliet, TN

MW-183-110420 L1283490-03 GW

Collected by: Sean K | Collected date/time: 11/04/20 09:30 | Received date/time: 11/09/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1576516	1	11/16/20 04:54	11/16/20 04:54	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1576989	1	11/16/20 10:46	11/16/20 10:46	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1574947	10	11/11/20 19:57	11/13/20 13:08	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1576276	10	11/14/20 06:01	11/14/20 06:01	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1576414	1	11/14/20 04:11	11/14/20 04:11	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576904	1	11/15/20 17:29	11/15/20 17:29	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1577289	25	11/17/20 07:20	11/17/20 07:20	JHH	Mt. Juliet, TN

MW-311-110420 L1283490-04 GW

Collected by: Sean K | Collected date/time: 11/04/20 09:35 | Received date/time: 11/09/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576904	1	11/15/20 17:49	11/15/20 17:49	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1577289	1	11/17/20 05:26	11/17/20 05:26	JHH	Mt. Juliet, TN

MW-182-110420 L1283490-05 GW

Collected by: Sean K | Collected date/time: 11/04/20 10:58 | Received date/time: 11/09/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1576516	1	11/16/20 11:59	11/16/20 11:59	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1577908	5	11/18/20 00:14	11/18/20 00:14	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1574947	50	11/11/20 19:57	11/13/20 13:11	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1576276	10	11/14/20 06:03	11/14/20 06:03	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1576414	1	11/14/20 04:15	11/14/20 04:15	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576904	50	11/15/20 19:52	11/15/20 19:52	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1577289	5000	11/17/20 07:39	11/17/20 07:39	JHH	Mt. Juliet, TN

MW-184-110420 L1283490-06 GW

Collected by: Sean K | Collected date/time: 11/04/20 11:00 | Received date/time: 11/09/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1576516	1	11/16/20 05:57	11/16/20 05:57	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1576993	1	11/16/20 06:35	11/16/20 06:35	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1574947	20	11/11/20 19:57	11/13/20 13:14	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1576414	1	11/14/20 04:25	11/14/20 04:25	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576904	10	11/15/20 20:12	11/15/20 20:12	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1577289	10	11/17/20 07:57	11/17/20 07:57	JHH	Mt. Juliet, TN

MW108-110420 L1283490-07 GW

Collected by: Sean K | Collected date/time: 11/04/20 11:25 | Received date/time: 11/09/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1576516	1	11/16/20 06:13	11/16/20 06:13	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1576993	1	11/16/20 07:16	11/16/20 07:16	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1574947	1	11/11/20 19:57	11/13/20 00:08	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1576276	10	11/14/20 06:07	11/14/20 06:07	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1576414	1	11/14/20 04:30	11/14/20 04:30	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576904	25	11/15/20 20:32	11/15/20 20:32	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1577289	25	11/17/20 08:16	11/17/20 08:16	JHH	Mt. Juliet, TN

MW-188-110420 L1283490-08 GW

Collected by: Sean K | Collected date/time: 11/04/20 12:30 | Received date/time: 11/09/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576904	1	11/15/20 18:10	11/15/20 18:10	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1577289	1	11/17/20 05:45	11/17/20 05:45	JHH	Mt. Juliet, TN

MW-314-110420 L1283490-09 GW

Collected by: Sean K | Collected date/time: 11/04/20 13:03 | Received date/time: 11/09/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576904	100	11/15/20 20:53	11/15/20 20:53	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1577289	100	11/17/20 08:35	11/17/20 08:35	JHH	Mt. Juliet, TN

MW-186-110420 L1283490-10 GW

Collected by: Sean K | Collected date/time: 11/04/20 13:20 | Received date/time: 11/09/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576904	1	11/15/20 18:31	11/15/20 18:31	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1577289	1	11/17/20 06:04	11/17/20 06:04	JHH	Mt. Juliet, TN

MW-187-110420 L1283490-11 GW

Collected by: Sean K | Collected date/time: 11/04/20 13:30 | Received date/time: 11/09/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576904	1	11/15/20 18:51	11/15/20 18:51	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1577289	1	11/17/20 06:23	11/17/20 06:23	JHH	Mt. Juliet, TN

MW-185-110420 L1283490-12 GW

Collected by: Sean K | Collected date/time: 11/04/20 13:42 | Received date/time: 11/09/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576904	1	11/15/20 19:11	11/15/20 19:11	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1577289	1	11/17/20 06:42	11/17/20 06:42	JHH	Mt. Juliet, TN

MW110-110420 L1283490-13 GW

Collected by: Sean K | Collected date/time: 11/04/20 14:05 | Received date/time: 11/09/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1576516	5	11/16/20 06:29	11/16/20 06:29	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1576993	1	11/16/20 08:06	11/16/20 08:06	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1574211	1	11/12/20 19:56	11/13/20 22:38	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1574211	10	11/12/20 19:56	11/13/20 22:51	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1576414	1	11/14/20 04:32	11/14/20 04:32	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576904	50	11/15/20 21:13	11/15/20 21:13	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1577289	50	11/17/20 08:54	11/17/20 08:54	JHH	Mt. Juliet, TN

FMW-142-110420 L1283490-14 GW

Collected by: Sean K | Collected date/time: 11/04/20 16:00 | Received date/time: 11/09/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576904	1	11/15/20 19:32	11/15/20 19:32	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578207	1	11/18/20 13:46	11/18/20 13:46	ACG	Mt. Juliet, TN

TB-110520 L1283490-15 GW

Collected by: Sean K | Collected date/time: 11/05/20 00:00 | Received date/time: 11/09/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578255	1	11/18/20 14:43	11/18/20 14:43	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

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	11600		594	5000	1	11/16/2020 11:27	WG1576516

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)	36000		102	1000	1	11/16/2020 10:16	WG1576989

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	13200		281	1000	10	11/13/2020 13:01	WG1574947
Manganese	1550		7.04	50.0	10	11/13/2020 13:01	WG1574947

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	28500		2.87	6.78	10	11/14/2020 05:54	WG1576276
Ethane	36.5		0.296	1.29	1	11/14/2020 04:05	WG1576414
Ethene	3810		0.422	1.27	1	11/14/2020 04:05	WG1576414

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	6.90		0.548	1.00	1	11/10/2020 16:04	WG1573882
Acrylonitrile	U		0.0760	0.500	1	11/10/2020 16:04	WG1573882
Benzene	0.349		0.0160	0.0400	1	11/10/2020 16:04	WG1573882
Bromobenzene	U		0.0420	0.500	1	11/10/2020 16:04	WG1573882
Bromodichloromethane	U		0.0315	0.100	1	11/10/2020 16:04	WG1573882
Bromoform	U		0.239	1.00	1	11/10/2020 16:04	WG1573882
Bromomethane	U		0.148	0.500	1	11/10/2020 16:04	WG1573882
n-Butylbenzene	U		0.153	0.500	1	11/10/2020 16:04	WG1573882
sec-Butylbenzene	U		0.101	0.500	1	11/10/2020 16:04	WG1573882
tert-Butylbenzene	U		0.0620	0.200	1	11/10/2020 16:04	WG1573882
Carbon tetrachloride	U		0.0432	0.200	1	11/10/2020 16:04	WG1573882
Chlorobenzene	U		0.0229	0.100	1	11/10/2020 16:04	WG1573882
Chlorodibromomethane	U		0.0180	0.100	1	11/10/2020 16:04	WG1573882
Chloroethane	U		0.0432	0.200	1	11/10/2020 16:04	WG1573882
Chloroform	U		0.0166	0.100	1	11/10/2020 16:04	WG1573882
Chloromethane	U		0.0556	0.500	1	11/10/2020 16:04	WG1573882
2-Chlorotoluene	U		0.0368	0.100	1	11/10/2020 16:04	WG1573882
4-Chlorotoluene	U		0.0452	0.200	1	11/10/2020 16:04	WG1573882
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/10/2020 16:04	WG1573882
1,2-Dibromoethane	U		0.0210	0.100	1	11/10/2020 16:04	WG1573882
Dibromomethane	U		0.0400	0.200	1	11/10/2020 16:04	WG1573882
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/10/2020 16:04	WG1573882
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/10/2020 16:04	WG1573882
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/10/2020 16:04	WG1573882
Dichlorodifluoromethane	U		0.0327	0.100	1	11/10/2020 16:04	WG1573882
1,1-Dichloroethane	U		0.0230	0.100	1	11/10/2020 16:04	WG1573882
1,2-Dichloroethane	U		0.0190	0.100	1	11/10/2020 16:04	WG1573882
1,1-Dichloroethene	8.76		0.0200	0.100	1	11/10/2020 16:04	WG1573882
cis-1,2-Dichloroethene	1740		13.8	50.0	500	11/12/2020 14:47	WG1574656
trans-1,2-Dichloroethene	60.5		0.0572	0.200	1	11/10/2020 16:04	WG1573882
1,2-Dichloropropane	U		0.0508	0.200	1	11/10/2020 16:04	WG1573882

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/10/2020 16:04	WG1573882
1,3-Dichloropropane	U		0.0700	0.200	1	11/10/2020 16:04	WG1573882
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/10/2020 16:04	WG1573882
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/10/2020 16:04	WG1573882
2,2-Dichloropropane	U		0.0317	0.100	1	11/10/2020 16:04	WG1573882
Di-isopropyl ether	U		0.0140	0.0400	1	11/10/2020 16:04	WG1573882
Ethylbenzene	U		0.0212	0.100	1	11/10/2020 16:04	WG1573882
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/10/2020 16:04	WG1573882
Isopropylbenzene	U		0.0345	0.100	1	11/10/2020 16:04	WG1573882
p-Isopropyltoluene	U		0.0932	0.200	1	11/10/2020 16:04	WG1573882
2-Butanone (MEK)	1.51		0.500	1.00	1	11/10/2020 16:04	WG1573882
Methylene Chloride	U		0.265	1.00	1	11/10/2020 16:04	WG1573882
4-Methyl-2-pentanone (MIBK)	0.709	J	0.400	1.00	1	11/10/2020 16:04	WG1573882
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/10/2020 16:04	WG1573882
Naphthalene	U		0.124	0.500	1	11/10/2020 16:04	WG1573882
n-Propylbenzene	U		0.0472	0.200	1	11/10/2020 16:04	WG1573882
Styrene	U		0.109	0.500	1	11/10/2020 16:04	WG1573882
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/10/2020 16:04	WG1573882
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/10/2020 16:04	WG1573882
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2020 16:04	WG1573882
Tetrachloroethene	U		0.0280	0.100	1	11/10/2020 16:04	WG1573882
Toluene	0.183	J	0.0500	0.200	1	11/10/2020 16:04	WG1573882
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/10/2020 16:04	WG1573882
1,2,4-Trichlorobenzene	U	C4	0.193	0.500	1	11/10/2020 16:04	WG1573882
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2020 16:04	WG1573882
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2020 16:04	WG1573882
Trichloroethene	0.156		0.0160	0.0400	1	11/10/2020 16:04	WG1573882
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2020 16:04	WG1573882
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2020 16:04	WG1573882
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/10/2020 16:04	WG1573882
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2020 16:04	WG1573882
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2020 16:04	WG1573882
Vinyl chloride	7380		13.6	50.0	500	11/12/2020 14:47	WG1574656
Xylenes, Total	U		0.191	0.260	1	11/10/2020 16:04	WG1573882
Ethyl Ether	U		0.0170	0.100	1	11/10/2020 16:04	WG1573882
Tetrahydrofuran	U	C4	0.0900	0.500	1	11/10/2020 16:04	WG1573882
Iodomethane	U		0.242	0.500	1	11/10/2020 16:04	WG1573882
Allyl chloride	U		0.580	1.00	1	11/10/2020 16:04	WG1573882
Trans-1,4-Dichloro-2-butene	U	C4	0.0560	0.200	1	11/10/2020 16:04	WG1573882
(S) Toluene-d8	*107*			*75.0-131*		*11/10/2020 16:04*	WG1573882
(S) Toluene-d8	*106*			*75.0-131*		*11/12/2020 14:47*	WG1574656
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*11/10/2020 16:04*	WG1573882
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*11/12/2020 14:47*	WG1574656
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*11/10/2020 16:04*	WG1573882
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*11/12/2020 14:47*	WG1574656

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	13000		594	5000	1	11/16/2020 11:43	WG1576516

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)	36300		102	1000	1	11/16/2020 10:31	WG1576989

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	12900		281	1000	10	11/13/2020 13:04	WG1574947
Manganese	1510		7.04	50.0	10	11/13/2020 13:04	WG1574947

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	29900		2.87	6.78	10	11/14/2020 05:57	WG1576276
Ethane	29.1		0.296	1.29	1	11/14/2020 04:09	WG1576414
Ethene	3720		0.422	1.27	1	11/14/2020 04:09	WG1576414

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	6.48		0.548	1.00	1	11/10/2020 16:24	WG1573882
Acrylonitrile	U		0.0760	0.500	1	11/10/2020 16:24	WG1573882
Benzene	0.336		0.0160	0.0400	1	11/10/2020 16:24	WG1573882
Bromobenzene	U		0.0420	0.500	1	11/10/2020 16:24	WG1573882
Bromodichloromethane	U		0.0315	0.100	1	11/10/2020 16:24	WG1573882
Bromoform	U		0.239	1.00	1	11/10/2020 16:24	WG1573882
Bromomethane	U		0.148	0.500	1	11/10/2020 16:24	WG1573882
n-Butylbenzene	U		0.153	0.500	1	11/10/2020 16:24	WG1573882
sec-Butylbenzene	U		0.101	0.500	1	11/10/2020 16:24	WG1573882
tert-Butylbenzene	U		0.0620	0.200	1	11/10/2020 16:24	WG1573882
Carbon tetrachloride	U		0.0432	0.200	1	11/10/2020 16:24	WG1573882
Chlorobenzene	U		0.0229	0.100	1	11/10/2020 16:24	WG1573882
Chlorodibromomethane	U		0.0180	0.100	1	11/10/2020 16:24	WG1573882
Chloroethane	U		0.0432	0.200	1	11/10/2020 16:24	WG1573882
Chloroform	U		0.0166	0.100	1	11/10/2020 16:24	WG1573882
Chloromethane	U		0.0556	0.500	1	11/10/2020 16:24	WG1573882
2-Chlorotoluene	U		0.0368	0.100	1	11/10/2020 16:24	WG1573882
4-Chlorotoluene	U		0.0452	0.200	1	11/10/2020 16:24	WG1573882
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/10/2020 16:24	WG1573882
1,2-Dibromoethane	U		0.0210	0.100	1	11/10/2020 16:24	WG1573882
Dibromomethane	U		0.0400	0.200	1	11/10/2020 16:24	WG1573882
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/10/2020 16:24	WG1573882
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/10/2020 16:24	WG1573882
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/10/2020 16:24	WG1573882
Dichlorodifluoromethane	U		0.0327	0.100	1	11/10/2020 16:24	WG1573882
1,1-Dichloroethane	U		0.0230	0.100	1	11/10/2020 16:24	WG1573882
1,2-Dichloroethane	U		0.0190	0.100	1	11/10/2020 16:24	WG1573882
1,1-Dichloroethene	8.27		0.0200	0.100	1	11/10/2020 16:24	WG1573882
cis-1,2-Dichloroethene	1360		13.8	50.0	500	11/12/2020 15:07	WG1574656
trans-1,2-Dichloroethene	58.9		0.0572	0.200	1	11/10/2020 16:24	WG1573882
1,2-Dichloropropane	U		0.0508	0.200	1	11/10/2020 16:24	WG1573882

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/10/2020 16:24	WG1573882
1,3-Dichloropropane	U		0.0700	0.200	1	11/10/2020 16:24	WG1573882
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/10/2020 16:24	WG1573882
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/10/2020 16:24	WG1573882
2,2-Dichloropropane	U		0.0317	0.100	1	11/10/2020 16:24	WG1573882
Di-isopropyl ether	U		0.0140	0.0400	1	11/10/2020 16:24	WG1573882
Ethylbenzene	U		0.0212	0.100	1	11/10/2020 16:24	WG1573882
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/10/2020 16:24	WG1573882
Isopropylbenzene	U		0.0345	0.100	1	11/10/2020 16:24	WG1573882
p-Isopropyltoluene	U		0.0932	0.200	1	11/10/2020 16:24	WG1573882
2-Butanone (MEK)	1.53		0.500	1.00	1	11/10/2020 16:24	WG1573882
Methylene Chloride	U		0.265	1.00	1	11/10/2020 16:24	WG1573882
4-Methyl-2-pentanone (MIBK)	0.777	J	0.400	1.00	1	11/10/2020 16:24	WG1573882
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/10/2020 16:24	WG1573882
Naphthalene	U		0.124	0.500	1	11/10/2020 16:24	WG1573882
n-Propylbenzene	U		0.0472	0.200	1	11/10/2020 16:24	WG1573882
Styrene	U		0.109	0.500	1	11/10/2020 16:24	WG1573882
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/10/2020 16:24	WG1573882
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/10/2020 16:24	WG1573882
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2020 16:24	WG1573882
Tetrachloroethene	U		0.0280	0.100	1	11/10/2020 16:24	WG1573882
Toluene	0.188	J	0.0500	0.200	1	11/10/2020 16:24	WG1573882
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/10/2020 16:24	WG1573882
1,2,4-Trichlorobenzene	U	C4	0.193	0.500	1	11/10/2020 16:24	WG1573882
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2020 16:24	WG1573882
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2020 16:24	WG1573882
Trichloroethene	0.147		0.0160	0.0400	1	11/10/2020 16:24	WG1573882
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2020 16:24	WG1573882
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2020 16:24	WG1573882
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/10/2020 16:24	WG1573882
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2020 16:24	WG1573882
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2020 16:24	WG1573882
Vinyl chloride	6650		13.6	50.0	500	11/12/2020 15:07	WG1574656
Xylenes, Total	U		0.191	0.260	1	11/10/2020 16:24	WG1573882
Ethyl Ether	U		0.0170	0.100	1	11/10/2020 16:24	WG1573882
Tetrahydrofuran	0.409	C4 J	0.0900	0.500	1	11/10/2020 16:24	WG1573882
Iodomethane	U		0.242	0.500	1	11/10/2020 16:24	WG1573882
Allyl chloride	U		0.580	1.00	1	11/10/2020 16:24	WG1573882
Trans-1,4-Dichloro-2-butene	U	C4	0.0560	0.200	1	11/10/2020 16:24	WG1573882
(S) Toluene-d8	*105*			*75.0-131*		*11/10/2020 16:24*	WG1573882
(S) Toluene-d8	*104*			*75.0-131*		*11/12/2020 15:07*	WG1574656
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*11/10/2020 16:24*	WG1573882
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*11/12/2020 15:07*	WG1574656
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*		*11/10/2020 16:24*	WG1573882
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/12/2020 15:07*	WG1574656

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	41200		594	5000	1	11/16/2020 04:54	WG1576516

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)	9810		102	1000	1	11/16/2020 10:46	WG1576989

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2720		281	1000	10	11/13/2020 13:08	WG1574947
Manganese	739		7.04	50.0	10	11/13/2020 13:08	WG1574947

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	11000		2.87	6.78	10	11/14/2020 06:01	WG1576276
Ethane	4.75		0.296	1.29	1	11/14/2020 04:11	WG1576414
Ethene	40.4		0.422	1.27	1	11/14/2020 04:11	WG1576414

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	0.580	C3 J	0.548	1.00	1	11/15/2020 17:29	WG1576904
Acrylonitrile	U		0.0760	0.500	1	11/15/2020 17:29	WG1576904
Benzene	U		0.0160	0.0400	1	11/15/2020 17:29	WG1576904
Bromobenzene	U		0.0420	0.500	1	11/15/2020 17:29	WG1576904
Bromodichloromethane	U		0.0315	0.100	1	11/15/2020 17:29	WG1576904
Bromoform	U		0.239	1.00	1	11/15/2020 17:29	WG1576904
Bromomethane	U	J4	0.148	0.500	1	11/15/2020 17:29	WG1576904
n-Butylbenzene	U		0.153	0.500	1	11/15/2020 17:29	WG1576904
sec-Butylbenzene	U		0.101	0.500	1	11/15/2020 17:29	WG1576904
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2020 17:29	WG1576904
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2020 17:29	WG1576904
Chlorobenzene	U		0.0229	0.100	1	11/15/2020 17:29	WG1576904
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2020 17:29	WG1576904
Chloroethane	2.58	J	1.08	5.00	25	11/17/2020 07:20	WG1577289
Chloroform	U		0.0166	0.100	1	11/15/2020 17:29	WG1576904
Chloromethane	U		0.0556	0.500	1	11/15/2020 17:29	WG1576904
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2020 17:29	WG1576904
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2020 17:29	WG1576904
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2020 17:29	WG1576904
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2020 17:29	WG1576904
Dibromomethane	U		0.0400	0.200	1	11/15/2020 17:29	WG1576904
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2020 17:29	WG1576904
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2020 17:29	WG1576904
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2020 17:29	WG1576904
Dichlorodifluoromethane	U		0.0327	0.100	1	11/15/2020 17:29	WG1576904
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2020 17:29	WG1576904
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2020 17:29	WG1576904
1,1-Dichloroethene	3.48		0.0200	0.100	1	11/15/2020 17:29	WG1576904
cis-1,2-Dichloroethene	752		0.690	2.50	25	11/17/2020 07:20	WG1577289
trans-1,2-Dichloroethene	1.83		0.0572	0.200	1	11/15/2020 17:29	WG1576904
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2020 17:29	WG1576904

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2020 17:29	WG1576904
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2020 17:29	WG1576904
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2020 17:29	WG1576904
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2020 17:29	WG1576904
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2020 17:29	WG1576904
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2020 17:29	WG1576904
Ethylbenzene	U		0.0212	0.100	1	11/15/2020 17:29	WG1576904
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2020 17:29	WG1576904
Isopropylbenzene	U		0.0345	0.100	1	11/15/2020 17:29	WG1576904
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2020 17:29	WG1576904
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2020 17:29	WG1576904
Methylene Chloride	U		0.265	1.00	1	11/15/2020 17:29	WG1576904
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2020 17:29	WG1576904
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2020 17:29	WG1576904
Naphthalene	U		0.124	0.500	1	11/15/2020 17:29	WG1576904
n-Propylbenzene	U		0.0472	0.200	1	11/15/2020 17:29	WG1576904
Styrene	U		0.109	0.500	1	11/15/2020 17:29	WG1576904
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2020 17:29	WG1576904
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2020 17:29	WG1576904
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2020 17:29	WG1576904
Tetrachloroethene	22.5		0.0280	0.100	1	11/15/2020 17:29	WG1576904
Toluene	0.140	J	0.0500	0.200	1	11/15/2020 17:29	WG1576904
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/15/2020 17:29	WG1576904
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2020 17:29	WG1576904
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2020 17:29	WG1576904
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2020 17:29	WG1576904
Trichloroethene	34.7		0.0160	0.0400	1	11/15/2020 17:29	WG1576904
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2020 17:29	WG1576904
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2020 17:29	WG1576904
1,2,4-Trimethylbenzene	0.0625	B J	0.0464	0.200	1	11/15/2020 17:29	WG1576904
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2020 17:29	WG1576904
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2020 17:29	WG1576904
Vinyl chloride	208		0.682	2.50	25	11/17/2020 07:20	WG1577289
Xylenes, Total	U		0.191	0.260	1	11/15/2020 17:29	WG1576904
Ethyl Ether	U		0.0170	0.100	1	11/15/2020 17:29	WG1576904
Tetrahydrofuran	U	C3	0.0900	0.500	1	11/15/2020 17:29	WG1576904
Iodomethane	U		0.242	0.500	1	11/15/2020 17:29	WG1576904
Allyl chloride	U		0.580	1.00	1	11/15/2020 17:29	WG1576904
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2020 17:29	WG1576904
(S) Toluene-d8	*104*			*75.0-131*		*11/15/2020 17:29*	WG1576904
(S) Toluene-d8	*103*			*75.0-131*		*11/17/2020 07:20*	WG1577289
(S) 4-Bromofluorobenzene	*109*			*67.0-138*		*11/15/2020 17:29*	WG1576904
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/17/2020 07:20*	WG1577289
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/15/2020 17:29*	WG1576904
(S) 1,2-Dichloroethane-d4	*90.7*			*70.0-130*		*11/17/2020 07:20*	WG1577289

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	C3	0.548	1.00	1	11/15/2020 17:49	WG1576904
Acrylonitrile	U		0.0760	0.500	1	11/15/2020 17:49	WG1576904
Benzene	0.0287	J	0.0160	0.0400	1	11/15/2020 17:49	WG1576904
Bromobenzene	U		0.0420	0.500	1	11/15/2020 17:49	WG1576904
Bromodichloromethane	U		0.0315	0.100	1	11/15/2020 17:49	WG1576904
Bromoform	U		0.239	1.00	1	11/15/2020 17:49	WG1576904
Bromomethane	U	J4	0.148	0.500	1	11/15/2020 17:49	WG1576904
n-Butylbenzene	U		0.153	0.500	1	11/15/2020 17:49	WG1576904
sec-Butylbenzene	U		0.101	0.500	1	11/15/2020 17:49	WG1576904
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2020 17:49	WG1576904
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2020 17:49	WG1576904
Chlorobenzene	U		0.0229	0.100	1	11/15/2020 17:49	WG1576904
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2020 17:49	WG1576904
Chloroethane	U	J4	0.0432	0.200	1	11/15/2020 17:49	WG1576904
Chloroform	U		0.0166	0.100	1	11/15/2020 17:49	WG1576904
Chloromethane	U		0.0556	0.500	1	11/15/2020 17:49	WG1576904
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2020 17:49	WG1576904
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2020 17:49	WG1576904
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2020 17:49	WG1576904
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2020 17:49	WG1576904
Dibromomethane	U		0.0400	0.200	1	11/15/2020 17:49	WG1576904
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2020 17:49	WG1576904
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2020 17:49	WG1576904
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2020 17:49	WG1576904
Dichlorodifluoromethane	U		0.0327	0.100	1	11/15/2020 17:49	WG1576904
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2020 17:49	WG1576904
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2020 17:49	WG1576904
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2020 17:49	WG1576904
cis-1,2-Dichloroethene	2.66		0.0276	0.100	1	11/17/2020 05:26	WG1577289
trans-1,2-Dichloroethene	0.0593	J	0.0572	0.200	1	11/15/2020 17:49	WG1576904
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2020 17:49	WG1576904
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2020 17:49	WG1576904
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2020 17:49	WG1576904
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2020 17:49	WG1576904
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2020 17:49	WG1576904
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2020 17:49	WG1576904
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2020 17:49	WG1576904
Ethylbenzene	0.0319	J	0.0212	0.100	1	11/15/2020 17:49	WG1576904
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2020 17:49	WG1576904
Isopropylbenzene	U		0.0345	0.100	1	11/15/2020 17:49	WG1576904
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2020 17:49	WG1576904
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2020 17:49	WG1576904
Methylene Chloride	U		0.265	1.00	1	11/15/2020 17:49	WG1576904
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2020 17:49	WG1576904
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2020 17:49	WG1576904
Naphthalene	U		0.124	0.500	1	11/15/2020 17:49	WG1576904
n-Propylbenzene	U		0.0472	0.200	1	11/15/2020 17:49	WG1576904
Styrene	U		0.109	0.500	1	11/15/2020 17:49	WG1576904
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2020 17:49	WG1576904
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2020 17:49	WG1576904
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2020 17:49	WG1576904
Tetrachloroethene	0.169		0.0280	0.100	1	11/15/2020 17:49	WG1576904
Toluene	0.578		0.0500	0.200	1	11/15/2020 17:49	WG1576904
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/15/2020 17:49	WG1576904
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2020 17:49	WG1576904
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2020 17:49	WG1576904

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2020 17:49	WG1576904
Trichloroethene	0.524		0.0160	0.0400	1	11/15/2020 17:49	WG1576904
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2020 17:49	WG1576904
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2020 17:49	WG1576904
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2020 17:49	WG1576904
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2020 17:49	WG1576904
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2020 17:49	WG1576904
Vinyl chloride	13.5		0.0273	0.100	1	11/17/2020 05:26	WG1577289
Xylenes, Total	U		0.191	0.260	1	11/15/2020 17:49	WG1576904
Ethyl Ether	U		0.0170	0.100	1	11/15/2020 17:49	WG1576904
Tetrahydrofuran	U	C3	0.0900	0.500	1	11/15/2020 17:49	WG1576904
Iodomethane	U		0.242	0.500	1	11/15/2020 17:49	WG1576904
Allyl chloride	U		0.580	1.00	1	11/15/2020 17:49	WG1576904
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2020 17:49	WG1576904
(S) Toluene-d8	*104*			*75.0-131*		*11/15/2020 17:49*	WG1576904
(S) Toluene-d8	*104*			*75.0-131*		*11/17/2020 05:26*	WG1577289
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*11/15/2020 17:49*	WG1576904
(S) 4-Bromofluorobenzene	*98.1*			*67.0-138*		*11/17/2020 05:26*	WG1577289
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/15/2020 17:49*	WG1576904
(S) 1,2-Dichloroethane-d4	*90.3*			*70.0-130*		*11/17/2020 05:26*	WG1577289

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	U		594	5000	1	11/16/2020 11:59	WG1576516

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)	144000		510	5000	5	11/18/2020 00:14	WG1577908

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	39000		1400	5000	50	11/13/2020 13:11	WG1574947
Manganese	5900		35.2	250	50	11/13/2020 13:11	WG1574947

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	38900		2.87	6.78	10	11/14/2020 06:03	WG1576276
Ethane	89.6		0.296	1.29	1	11/14/2020 04:15	WG1576414
Ethene	8010		0.422	1.27	1	11/14/2020 04:15	WG1576414

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	211	C3	27.4	50.0	50	11/15/2020 19:52	WG1576904
Acrylonitrile	U		3.80	25.0	50	11/15/2020 19:52	WG1576904
Benzene	U		0.800	2.00	50	11/15/2020 19:52	WG1576904
Bromobenzene	U		2.10	25.0	50	11/15/2020 19:52	WG1576904
Bromodichloromethane	U		1.58	5.00	50	11/15/2020 19:52	WG1576904
Bromoform	U		12.0	50.0	50	11/15/2020 19:52	WG1576904
Bromomethane	U	J4	7.40	25.0	50	11/15/2020 19:52	WG1576904
n-Butylbenzene	U		7.65	25.0	50	11/15/2020 19:52	WG1576904
sec-Butylbenzene	U		5.05	25.0	50	11/15/2020 19:52	WG1576904
tert-Butylbenzene	U		3.10	10.0	50	11/15/2020 19:52	WG1576904
Carbon tetrachloride	U		2.16	10.0	50	11/15/2020 19:52	WG1576904
Chlorobenzene	U		1.15	5.00	50	11/15/2020 19:52	WG1576904
Chlorodibromomethane	U		0.900	5.00	50	11/15/2020 19:52	WG1576904
Chloroethane	U	J4	2.16	10.0	50	11/15/2020 19:52	WG1576904
Chloroform	U		0.830	5.00	50	11/15/2020 19:52	WG1576904
Chloromethane	U		2.78	25.0	50	11/15/2020 19:52	WG1576904
2-Chlorotoluene	U		1.84	5.00	50	11/15/2020 19:52	WG1576904
4-Chlorotoluene	U		2.26	10.0	50	11/15/2020 19:52	WG1576904
1,2-Dibromo-3-Chloropropane	U		10.2	50.0	50	11/15/2020 19:52	WG1576904
1,2-Dibromoethane	U		1.05	5.00	50	11/15/2020 19:52	WG1576904
Dibromomethane	U		2.00	10.0	50	11/15/2020 19:52	WG1576904
1,2-Dichlorobenzene	U		2.90	10.0	50	11/15/2020 19:52	WG1576904
1,3-Dichlorobenzene	U		3.40	10.0	50	11/15/2020 19:52	WG1576904
1,4-Dichlorobenzene	U		3.94	10.0	50	11/15/2020 19:52	WG1576904
Dichlorodifluoromethane	U		1.64	5.00	50	11/15/2020 19:52	WG1576904
1,1-Dichloroethane	U		1.15	5.00	50	11/15/2020 19:52	WG1576904
1,2-Dichloroethane	U		0.950	5.00	50	11/15/2020 19:52	WG1576904
1,1-Dichloroethene	72.3		1.00	5.00	50	11/15/2020 19:52	WG1576904
cis-1,2-Dichloroethene	84900		138	500	5000	11/17/2020 07:39	WG1577289
trans-1,2-Dichloroethene	281		2.86	10.0	50	11/15/2020 19:52	WG1576904
1,2-Dichloropropane	U		2.54	10.0	50	11/15/2020 19:52	WG1576904

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		1.40	5.00	50	11/15/2020 19:52	WG1576904
1,3-Dichloropropane	U		3.50	10.0	50	11/15/2020 19:52	WG1576904
cis-1,3-Dichloropropene	U		1.36	5.00	50	11/15/2020 19:52	WG1576904
trans-1,3-Dichloropropene	U		3.06	10.0	50	11/15/2020 19:52	WG1576904
2,2-Dichloropropane	U		1.59	5.00	50	11/15/2020 19:52	WG1576904
Di-isopropyl ether	U		0.700	2.00	50	11/15/2020 19:52	WG1576904
Ethylbenzene	U		1.06	5.00	50	11/15/2020 19:52	WG1576904
Hexachloro-1,3-butadiene	U		25.4	50.0	50	11/15/2020 19:52	WG1576904
Isopropylbenzene	U		1.73	5.00	50	11/15/2020 19:52	WG1576904
p-Isopropyltoluene	U		4.66	10.0	50	11/15/2020 19:52	WG1576904
2-Butanone (MEK)	32.9	J	25.0	50.0	50	11/15/2020 19:52	WG1576904
Methylene Chloride	46.2	J	13.3	50.0	50	11/15/2020 19:52	WG1576904
4-Methyl-2-pentanone (MIBK)	U		20.0	50.0	50	11/15/2020 19:52	WG1576904
Methyl tert-butyl ether	U		0.590	2.00	50	11/15/2020 19:52	WG1576904
Naphthalene	U		6.20	25.0	50	11/15/2020 19:52	WG1576904
n-Propylbenzene	U		2.36	10.0	50	11/15/2020 19:52	WG1576904
Styrene	U		5.45	25.0	50	11/15/2020 19:52	WG1576904
1,1,1,2-Tetrachloroethane	U		1.00	5.00	50	11/15/2020 19:52	WG1576904
1,1,2,2-Tetrachloroethane	U		0.780	5.00	50	11/15/2020 19:52	WG1576904
1,1,2-Trichlorotrifluoroethane	U		1.35	5.00	50	11/15/2020 19:52	WG1576904
Tetrachloroethene	208		1.40	5.00	50	11/15/2020 19:52	WG1576904
Toluene	2.51	J	2.50	10.0	50	11/15/2020 19:52	WG1576904
1,2,3-Trichlorobenzene	U	C4	1.25	25.0	50	11/15/2020 19:52	WG1576904
1,2,4-Trichlorobenzene	U		9.65	25.0	50	11/15/2020 19:52	WG1576904
1,1,1-Trichloroethane	U		0.550	5.00	50	11/15/2020 19:52	WG1576904
1,1,2-Trichloroethane	U		1.77	5.00	50	11/15/2020 19:52	WG1576904
Trichloroethene	226		0.800	2.00	50	11/15/2020 19:52	WG1576904
Trichlorofluoromethane	U		1.00	5.00	50	11/15/2020 19:52	WG1576904
1,2,3-Trichloropropane	U		10.2	25.0	50	11/15/2020 19:52	WG1576904
1,2,4-Trimethylbenzene	3.05	B J	2.32	10.0	50	11/15/2020 19:52	WG1576904
1,2,3-Trimethylbenzene	U		2.30	10.0	50	11/15/2020 19:52	WG1576904
1,3,5-Trimethylbenzene	U		2.16	10.0	50	11/15/2020 19:52	WG1576904
Vinyl chloride	18900		137	500	5000	11/17/2020 07:39	WG1577289
Xylenes, Total	U		9.55	13.0	50	11/15/2020 19:52	WG1576904
Ethyl Ether	6.70		0.850	5.00	50	11/15/2020 19:52	WG1576904
Tetrahydrofuran	U	C3	4.50	25.0	50	11/15/2020 19:52	WG1576904
Iodomethane	U		12.1	25.0	50	11/15/2020 19:52	WG1576904
Allyl chloride	U		29.0	50.0	50	11/15/2020 19:52	WG1576904
Trans-1,4-Dichloro-2-butene	U	C3	2.80	10.0	50	11/15/2020 19:52	WG1576904
(S) Toluene-d8	*105*			*75.0-131*		*11/15/2020 19:52*	WG1576904
(S) Toluene-d8	*99.6*			*75.0-131*		*11/17/2020 07:39*	WG1577289
(S) 4-Bromofluorobenzene	*109*			*67.0-138*		*11/15/2020 19:52*	WG1576904
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*11/17/2020 07:39*	WG1577289
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/15/2020 19:52*	WG1576904
(S) 1,2-Dichloroethane-d4	*97.8*			*70.0-130*		*11/17/2020 07:39*	WG1577289

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	28500		594	5000	1	11/16/2020 05:57	WG1576516

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)	3920		102	1000	1	11/16/2020 06:35	WG1576993

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2890		562	2000	20	11/13/2020 13:14	WG1574947
Manganese	2280		14.1	100	20	11/13/2020 13:14	WG1574947

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	4380		0.287	0.678	1	11/14/2020 04:25	WG1576414
Ethane	U		0.296	1.29	1	11/14/2020 04:25	WG1576414
Ethene	U		0.422	1.27	1	11/14/2020 04:25	WG1576414

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	39.9	C3	5.48	10.0	10	11/15/2020 20:12	WG1576904
Acrylonitrile	U		0.760	5.00	10	11/15/2020 20:12	WG1576904
Benzene	U		0.160	0.400	10	11/15/2020 20:12	WG1576904
Bromobenzene	U		0.420	5.00	10	11/15/2020 20:12	WG1576904
Bromodichloromethane	U		0.315	1.00	10	11/15/2020 20:12	WG1576904
Bromoform	U		2.39	10.0	10	11/15/2020 20:12	WG1576904
Bromomethane	U	J4	1.48	5.00	10	11/15/2020 20:12	WG1576904
n-Butylbenzene	U		1.53	5.00	10	11/15/2020 20:12	WG1576904
sec-Butylbenzene	U		1.01	5.00	10	11/15/2020 20:12	WG1576904
tert-Butylbenzene	U		0.620	2.00	10	11/15/2020 20:12	WG1576904
Carbon tetrachloride	U		0.432	2.00	10	11/15/2020 20:12	WG1576904
Chlorobenzene	U		0.229	1.00	10	11/15/2020 20:12	WG1576904
Chlorodibromomethane	U		0.180	1.00	10	11/15/2020 20:12	WG1576904
Chloroethane	9.41		0.432	2.00	10	11/17/2020 07:57	WG1577289
Chloroform	U		0.166	1.00	10	11/15/2020 20:12	WG1576904
Chloromethane	U		0.556	5.00	10	11/15/2020 20:12	WG1576904
2-Chlorotoluene	U		0.368	1.00	10	11/15/2020 20:12	WG1576904
4-Chlorotoluene	U		0.452	2.00	10	11/15/2020 20:12	WG1576904
1,2-Dibromo-3-Chloropropane	U		2.04	10.0	10	11/15/2020 20:12	WG1576904
1,2-Dibromoethane	U		0.210	1.00	10	11/15/2020 20:12	WG1576904
Dibromomethane	U		0.400	2.00	10	11/15/2020 20:12	WG1576904
1,2-Dichlorobenzene	U		0.580	2.00	10	11/15/2020 20:12	WG1576904
1,3-Dichlorobenzene	U		0.680	2.00	10	11/15/2020 20:12	WG1576904
1,4-Dichlorobenzene	U		0.788	2.00	10	11/15/2020 20:12	WG1576904
Dichlorodifluoromethane	U		0.327	1.00	10	11/15/2020 20:12	WG1576904
1,1-Dichloroethane	U		0.230	1.00	10	11/15/2020 20:12	WG1576904
1,2-Dichloroethane	U		0.190	1.00	10	11/15/2020 20:12	WG1576904
1,1-Dichloroethene	3.77		0.200	1.00	10	11/15/2020 20:12	WG1576904
cis-1,2-Dichloroethene	134		0.276	1.00	10	11/15/2020 20:12	WG1576904
trans-1,2-Dichloroethene	1.52	J	0.572	2.00	10	11/15/2020 20:12	WG1576904
1,2-Dichloropropane	U		0.508	2.00	10	11/15/2020 20:12	WG1576904

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.280	1.00	10	11/15/2020 20:12	WG1576904
1,3-Dichloropropane	U		0.700	2.00	10	11/15/2020 20:12	WG1576904
cis-1,3-Dichloropropene	U		0.271	1.00	10	11/15/2020 20:12	WG1576904
trans-1,3-Dichloropropene	U		0.612	2.00	10	11/15/2020 20:12	WG1576904
2,2-Dichloropropane	U		0.317	1.00	10	11/15/2020 20:12	WG1576904
Di-isopropyl ether	U		0.140	0.400	10	11/15/2020 20:12	WG1576904
Ethylbenzene	U		0.212	1.00	10	11/15/2020 20:12	WG1576904
Hexachloro-1,3-butadiene	U		5.08	10.0	10	11/15/2020 20:12	WG1576904
Isopropylbenzene	U		0.345	1.00	10	11/15/2020 20:12	WG1576904
p-Isopropyltoluene	U		0.932	2.00	10	11/15/2020 20:12	WG1576904
2-Butanone (MEK)	U		5.00	10.0	10	11/15/2020 20:12	WG1576904
Methylene Chloride	9.02	J	2.65	10.0	10	11/15/2020 20:12	WG1576904
4-Methyl-2-pentanone (MIBK)	U		4.00	10.0	10	11/15/2020 20:12	WG1576904
Methyl tert-butyl ether	U		0.118	0.400	10	11/15/2020 20:12	WG1576904
Naphthalene	U		1.24	5.00	10	11/15/2020 20:12	WG1576904
n-Propylbenzene	U		0.472	2.00	10	11/15/2020 20:12	WG1576904
Styrene	U		1.09	5.00	10	11/15/2020 20:12	WG1576904
1,1,1,2-Tetrachloroethane	U		0.200	1.00	10	11/15/2020 20:12	WG1576904
1,1,2,2-Tetrachloroethane	U		0.156	1.00	10	11/15/2020 20:12	WG1576904
1,1,2-Trichlorotrifluoroethane	U		0.270	1.00	10	11/15/2020 20:12	WG1576904
Tetrachloroethene	162		0.280	1.00	10	11/15/2020 20:12	WG1576904
Toluene	U		0.500	2.00	10	11/15/2020 20:12	WG1576904
1,2,3-Trichlorobenzene	U	C4	0.250	5.00	10	11/15/2020 20:12	WG1576904
1,2,4-Trichlorobenzene	U		1.93	5.00	10	11/15/2020 20:12	WG1576904
1,1,1-Trichloroethane	U		0.110	1.00	10	11/15/2020 20:12	WG1576904
1,1,2-Trichloroethane	U		0.353	1.00	10	11/15/2020 20:12	WG1576904
Trichloroethene	102		0.160	0.400	10	11/15/2020 20:12	WG1576904
Trichlorofluoromethane	U		0.200	1.00	10	11/15/2020 20:12	WG1576904
1,2,3-Trichloropropane	U		2.04	5.00	10	11/15/2020 20:12	WG1576904
1,2,4-Trimethylbenzene	U		0.464	2.00	10	11/15/2020 20:12	WG1576904
1,2,3-Trimethylbenzene	U		0.460	2.00	10	11/15/2020 20:12	WG1576904
1,3,5-Trimethylbenzene	U		0.432	2.00	10	11/15/2020 20:12	WG1576904
Vinyl chloride	3.97		0.273	1.00	10	11/17/2020 07:57	WG1577289
Xylenes, Total	U		1.91	2.60	10	11/15/2020 20:12	WG1576904
Ethyl Ether	1.36		0.170	1.00	10	11/15/2020 20:12	WG1576904
Tetrahydrofuran	U	C3	0.900	5.00	10	11/15/2020 20:12	WG1576904
Iodomethane	U		2.42	5.00	10	11/15/2020 20:12	WG1576904
Allyl chloride	U		5.80	10.0	10	11/15/2020 20:12	WG1576904
Trans-1,4-Dichloro-2-butene	U	C3	0.560	2.00	10	11/15/2020 20:12	WG1576904
(S) Toluene-d8	*104*			*75.0-131*		*11/15/2020 20:12*	WG1576904
(S) Toluene-d8	*101*			*75.0-131*		*11/17/2020 07:57*	WG1577289
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*11/15/2020 20:12*	WG1576904
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*11/17/2020 07:57*	WG1577289
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/15/2020 20:12*	WG1576904
(S) 1,2-Dichloroethane-d4	*92.3*			*70.0-130*		*11/17/2020 07:57*	WG1577289

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	16600		594	5000	1	11/16/2020 06:13	WG1576516

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)	5710		102	1000	1	11/16/2020 07:16	WG1576993

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	18300		28.1	100	1	11/13/2020 00:08	WG1574947
Manganese	2620		0.704	5.00	1	11/13/2020 00:08	WG1574947

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	8660		2.87	6.78	10	11/14/2020 06:07	WG1576276
Ethane	119		0.296	1.29	1	11/14/2020 04:30	WG1576414
Ethene	50.1		0.422	1.27	1	11/14/2020 04:30	WG1576414

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	98.4	C3	13.7	25.0	25	11/15/2020 20:32	WG1576904
Acrylonitrile	U		1.90	12.5	25	11/15/2020 20:32	WG1576904
Benzene	46.6		0.400	1.00	25	11/15/2020 20:32	WG1576904
Bromobenzene	U		1.05	12.5	25	11/15/2020 20:32	WG1576904
Bromodichloromethane	U		0.788	2.50	25	11/15/2020 20:32	WG1576904
Bromoform	U		5.98	25.0	25	11/15/2020 20:32	WG1576904
Bromomethane	U	J4	3.70	12.5	25	11/15/2020 20:32	WG1576904
n-Butylbenzene	U		3.83	12.5	25	11/15/2020 20:32	WG1576904
sec-Butylbenzene	U		2.53	12.5	25	11/15/2020 20:32	WG1576904
tert-Butylbenzene	U		1.55	5.00	25	11/15/2020 20:32	WG1576904
Carbon tetrachloride	U		1.08	5.00	25	11/15/2020 20:32	WG1576904
Chlorobenzene	U		0.573	2.50	25	11/15/2020 20:32	WG1576904
Chlorodibromomethane	U		0.450	2.50	25	11/15/2020 20:32	WG1576904
Chloroethane	U	J4	1.08	5.00	25	11/15/2020 20:32	WG1576904
Chloroform	U		0.415	2.50	25	11/15/2020 20:32	WG1576904
Chloromethane	U		1.39	12.5	25	11/15/2020 20:32	WG1576904
2-Chlorotoluene	U		0.920	2.50	25	11/15/2020 20:32	WG1576904
4-Chlorotoluene	U		1.13	5.00	25	11/15/2020 20:32	WG1576904
1,2-Dibromo-3-Chloropropane	U		5.10	25.0	25	11/15/2020 20:32	WG1576904
1,2-Dibromoethane	U		0.525	2.50	25	11/15/2020 20:32	WG1576904
Dibromomethane	U		1.00	5.00	25	11/15/2020 20:32	WG1576904
1,2-Dichlorobenzene	U		1.45	5.00	25	11/15/2020 20:32	WG1576904
1,3-Dichlorobenzene	U		1.70	5.00	25	11/15/2020 20:32	WG1576904
1,4-Dichlorobenzene	U		1.97	5.00	25	11/15/2020 20:32	WG1576904
Dichlorodifluoromethane	U		0.818	2.50	25	11/15/2020 20:32	WG1576904
1,1-Dichloroethane	U		0.575	2.50	25	11/15/2020 20:32	WG1576904
1,2-Dichloroethane	U		0.475	2.50	25	11/15/2020 20:32	WG1576904
1,1-Dichloroethene	U		0.500	2.50	25	11/15/2020 20:32	WG1576904
cis-1,2-Dichloroethene	413		0.690	2.50	25	11/15/2020 20:32	WG1576904
trans-1,2-Dichloroethene	U		1.43	5.00	25	11/15/2020 20:32	WG1576904
1,2-Dichloropropane	U		1.27	5.00	25	11/15/2020 20:32	WG1576904

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.700	2.50	25	11/15/2020 20:32	WG1576904
1,3-Dichloropropane	U		1.75	5.00	25	11/15/2020 20:32	WG1576904
cis-1,3-Dichloropropene	U		0.678	2.50	25	11/15/2020 20:32	WG1576904
trans-1,3-Dichloropropene	U		1.53	5.00	25	11/15/2020 20:32	WG1576904
2,2-Dichloropropane	U		0.793	2.50	25	11/15/2020 20:32	WG1576904
Di-isopropyl ether	U		0.350	1.00	25	11/15/2020 20:32	WG1576904
Ethylbenzene	U		0.530	2.50	25	11/15/2020 20:32	WG1576904
Hexachloro-1,3-butadiene	U		12.7	25.0	25	11/15/2020 20:32	WG1576904
Isopropylbenzene	U		0.863	2.50	25	11/15/2020 20:32	WG1576904
p-Isopropyltoluene	U		2.33	5.00	25	11/15/2020 20:32	WG1576904
2-Butanone (MEK)	U		12.5	25.0	25	11/15/2020 20:32	WG1576904
Methylene Chloride	23.3	J	6.63	25.0	25	11/15/2020 20:32	WG1576904
4-Methyl-2-pentanone (MIBK)	U		10.0	25.0	25	11/15/2020 20:32	WG1576904
Methyl tert-butyl ether	U		0.295	1.00	25	11/15/2020 20:32	WG1576904
Naphthalene	U		3.10	12.5	25	11/15/2020 20:32	WG1576904
n-Propylbenzene	U		1.18	5.00	25	11/15/2020 20:32	WG1576904
Styrene	U		2.73	12.5	25	11/15/2020 20:32	WG1576904
1,1,1,2-Tetrachloroethane	U		0.500	2.50	25	11/15/2020 20:32	WG1576904
1,1,2,2-Tetrachloroethane	U		0.390	2.50	25	11/15/2020 20:32	WG1576904
1,1,2-Trichlorotrifluoroethane	U		0.675	2.50	25	11/15/2020 20:32	WG1576904
Tetrachloroethene	10.2		0.700	2.50	25	11/15/2020 20:32	WG1576904
Toluene	2.12	J	1.25	5.00	25	11/15/2020 20:32	WG1576904
1,2,3-Trichlorobenzene	U	C4	0.625	12.5	25	11/15/2020 20:32	WG1576904
1,2,4-Trichlorobenzene	U		4.83	12.5	25	11/15/2020 20:32	WG1576904
1,1,1-Trichloroethane	U		0.275	2.50	25	11/15/2020 20:32	WG1576904
1,1,2-Trichloroethane	U		0.883	2.50	25	11/15/2020 20:32	WG1576904
Trichloroethene	32.6		0.400	1.00	25	11/15/2020 20:32	WG1576904
Trichlorofluoromethane	U		0.500	2.50	25	11/15/2020 20:32	WG1576904
1,2,3-Trichloropropane	U		5.10	12.5	25	11/15/2020 20:32	WG1576904
1,2,4-Trimethylbenzene	U		1.16	5.00	25	11/15/2020 20:32	WG1576904
1,2,3-Trimethylbenzene	U		1.15	5.00	25	11/15/2020 20:32	WG1576904
1,3,5-Trimethylbenzene	U		1.08	5.00	25	11/15/2020 20:32	WG1576904
Vinyl chloride	107		0.682	2.50	25	11/17/2020 08:16	WG1577289
Xylenes, Total	6.15	J	4.78	6.50	25	11/15/2020 20:32	WG1576904
Ethyl Ether	U		0.425	2.50	25	11/15/2020 20:32	WG1576904
Tetrahydrofuran	U	C3	2.25	12.5	25	11/15/2020 20:32	WG1576904
Iodomethane	U		6.05	12.5	25	11/15/2020 20:32	WG1576904
Allyl chloride	U		14.5	25.0	25	11/15/2020 20:32	WG1576904
Trans-1,4-Dichloro-2-butene	U	C3	1.40	5.00	25	11/15/2020 20:32	WG1576904
(S) Toluene-d8	*103*			*75.0-131*		*11/15/2020 20:32*	WG1576904
(S) Toluene-d8	*105*			*75.0-131*		*11/17/2020 08:16*	WG1577289
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*11/15/2020 20:32*	WG1576904
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*11/17/2020 08:16*	WG1577289
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*11/15/2020 20:32*	WG1576904
(S) 1,2-Dichloroethane-d4	*88.4*			*70.0-130*		*11/17/2020 08:16*	WG1577289

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	0.702	C3 J	0.548	1.00	1	11/15/2020 18:10	WG1576904
Acrylonitrile	U		0.0760	0.500	1	11/15/2020 18:10	WG1576904
Benzene	0.0161	J	0.0160	0.0400	1	11/15/2020 18:10	WG1576904
Bromobenzene	U		0.0420	0.500	1	11/15/2020 18:10	WG1576904
Bromodichloromethane	U		0.0315	0.100	1	11/15/2020 18:10	WG1576904
Bromoform	U		0.239	1.00	1	11/15/2020 18:10	WG1576904
Bromomethane	U	J4	0.148	0.500	1	11/15/2020 18:10	WG1576904
n-Butylbenzene	U		0.153	0.500	1	11/15/2020 18:10	WG1576904
sec-Butylbenzene	U		0.101	0.500	1	11/15/2020 18:10	WG1576904
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2020 18:10	WG1576904
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2020 18:10	WG1576904
Chlorobenzene	U		0.0229	0.100	1	11/15/2020 18:10	WG1576904
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2020 18:10	WG1576904
Chloroethane	U	J4	0.0432	0.200	1	11/15/2020 18:10	WG1576904
Chloroform	U		0.0166	0.100	1	11/15/2020 18:10	WG1576904
Chloromethane	U		0.0556	0.500	1	11/15/2020 18:10	WG1576904
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2020 18:10	WG1576904
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2020 18:10	WG1576904
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2020 18:10	WG1576904
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2020 18:10	WG1576904
Dibromomethane	U		0.0400	0.200	1	11/15/2020 18:10	WG1576904
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2020 18:10	WG1576904
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2020 18:10	WG1576904
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2020 18:10	WG1576904
Dichlorodifluoromethane	U		0.0327	0.100	1	11/15/2020 18:10	WG1576904
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2020 18:10	WG1576904
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2020 18:10	WG1576904
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2020 18:10	WG1576904
cis-1,2-Dichloroethene	0.220		0.0276	0.100	1	11/17/2020 05:45	WG1577289
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2020 18:10	WG1576904
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2020 18:10	WG1576904
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2020 18:10	WG1576904
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2020 18:10	WG1576904
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2020 18:10	WG1576904
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2020 18:10	WG1576904
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2020 18:10	WG1576904
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2020 18:10	WG1576904
Ethylbenzene	U		0.0212	0.100	1	11/15/2020 18:10	WG1576904
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2020 18:10	WG1576904
Isopropylbenzene	U		0.0345	0.100	1	11/15/2020 18:10	WG1576904
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2020 18:10	WG1576904
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2020 18:10	WG1576904
Methylene Chloride	U		0.265	1.00	1	11/15/2020 18:10	WG1576904
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2020 18:10	WG1576904
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2020 18:10	WG1576904
Naphthalene	U		0.124	0.500	1	11/15/2020 18:10	WG1576904
n-Propylbenzene	U		0.0472	0.200	1	11/15/2020 18:10	WG1576904
Styrene	U		0.109	0.500	1	11/15/2020 18:10	WG1576904
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2020 18:10	WG1576904
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2020 18:10	WG1576904
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2020 18:10	WG1576904
Tetrachloroethene	U		0.0280	0.100	1	11/15/2020 18:10	WG1576904
Toluene	0.149	J	0.0500	0.200	1	11/15/2020 18:10	WG1576904
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/15/2020 18:10	WG1576904
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2020 18:10	WG1576904
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2020 18:10	WG1576904

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2020 18:10	WG1576904
Trichloroethene	U		0.0160	0.0400	1	11/15/2020 18:10	WG1576904
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2020 18:10	WG1576904
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2020 18:10	WG1576904
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2020 18:10	WG1576904
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2020 18:10	WG1576904
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2020 18:10	WG1576904
Vinyl chloride	0.197		0.0273	0.100	1	11/17/2020 05:45	WG1577289
Xylenes, Total	0.224	J	0.191	0.260	1	11/15/2020 18:10	WG1576904
Ethyl Ether	U		0.0170	0.100	1	11/15/2020 18:10	WG1576904
Tetrahydrofuran	U	C3	0.0900	0.500	1	11/15/2020 18:10	WG1576904
Iodomethane	U		0.242	0.500	1	11/15/2020 18:10	WG1576904
Allyl chloride	U		0.580	1.00	1	11/15/2020 18:10	WG1576904
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2020 18:10	WG1576904
(S) Toluene-d8	*103*			*75.0-131*		*11/15/2020 18:10*	WG1576904
(S) Toluene-d8	*105*			*75.0-131*		*11/17/2020 05:45*	WG1577289
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*11/15/2020 18:10*	WG1576904
(S) 4-Bromofluorobenzene	*96.9*			*67.0-138*		*11/17/2020 05:45*	WG1577289
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/15/2020 18:10*	WG1576904
(S) 1,2-Dichloroethane-d4	*90.5*			*70.0-130*		*11/17/2020 05:45*	WG1577289

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	364	C3	54.8	100	100	11/15/2020 20:53	WG1576904
Acrylonitrile	U		7.60	50.0	100	11/15/2020 20:53	WG1576904
Benzene	U		1.60	4.00	100	11/15/2020 20:53	WG1576904
Bromobenzene	U		4.20	50.0	100	11/15/2020 20:53	WG1576904
Bromodichloromethane	U		3.15	10.0	100	11/15/2020 20:53	WG1576904
Bromoform	U		23.9	100	100	11/15/2020 20:53	WG1576904
Bromomethane	U	J4	14.8	50.0	100	11/15/2020 20:53	WG1576904
n-Butylbenzene	U		15.3	50.0	100	11/15/2020 20:53	WG1576904
sec-Butylbenzene	U		10.1	50.0	100	11/15/2020 20:53	WG1576904
tert-Butylbenzene	U		6.20	20.0	100	11/15/2020 20:53	WG1576904
Carbon tetrachloride	U		4.32	20.0	100	11/15/2020 20:53	WG1576904
Chlorobenzene	U		2.29	10.0	100	11/15/2020 20:53	WG1576904
Chlorodibromomethane	U		1.80	10.0	100	11/15/2020 20:53	WG1576904
Chloroethane	U	J4	4.32	20.0	100	11/15/2020 20:53	WG1576904
Chloroform	U		1.66	10.0	100	11/15/2020 20:53	WG1576904
Chloromethane	U		5.56	50.0	100	11/15/2020 20:53	WG1576904
2-Chlorotoluene	U		3.68	10.0	100	11/15/2020 20:53	WG1576904
4-Chlorotoluene	U		4.52	20.0	100	11/15/2020 20:53	WG1576904
1,2-Dibromo-3-Chloropropane	U		20.4	100	100	11/15/2020 20:53	WG1576904
1,2-Dibromoethane	U		2.10	10.0	100	11/15/2020 20:53	WG1576904
Dibromomethane	U		4.00	20.0	100	11/15/2020 20:53	WG1576904
1,2-Dichlorobenzene	U		5.80	20.0	100	11/15/2020 20:53	WG1576904
1,3-Dichlorobenzene	U		6.80	20.0	100	11/15/2020 20:53	WG1576904
1,4-Dichlorobenzene	U		7.88	20.0	100	11/15/2020 20:53	WG1576904
Dichlorodifluoromethane	U		3.27	10.0	100	11/15/2020 20:53	WG1576904
1,1-Dichloroethane	U		2.30	10.0	100	11/15/2020 20:53	WG1576904
1,2-Dichloroethane	U		1.90	10.0	100	11/15/2020 20:53	WG1576904
1,1-Dichloroethene	13.6		2.00	10.0	100	11/15/2020 20:53	WG1576904
cis-1,2-Dichloroethene	4240		2.76	10.0	100	11/15/2020 20:53	WG1576904
trans-1,2-Dichloroethene	16.4	J	5.72	20.0	100	11/15/2020 20:53	WG1576904
1,2-Dichloropropane	U		5.08	20.0	100	11/15/2020 20:53	WG1576904
1,1-Dichloropropene	U		2.80	10.0	100	11/15/2020 20:53	WG1576904
1,3-Dichloropropane	U		7.00	20.0	100	11/15/2020 20:53	WG1576904
cis-1,3-Dichloropropene	U		2.71	10.0	100	11/15/2020 20:53	WG1576904
trans-1,3-Dichloropropene	U		6.12	20.0	100	11/15/2020 20:53	WG1576904
2,2-Dichloropropane	U		3.17	10.0	100	11/15/2020 20:53	WG1576904
Di-isopropyl ether	U		1.40	4.00	100	11/15/2020 20:53	WG1576904
Ethylbenzene	U		2.12	10.0	100	11/15/2020 20:53	WG1576904
Hexachloro-1,3-butadiene	U		50.8	100	100	11/15/2020 20:53	WG1576904
Isopropylbenzene	U		3.45	10.0	100	11/15/2020 20:53	WG1576904
p-Isopropyltoluene	U		9.32	20.0	100	11/15/2020 20:53	WG1576904
2-Butanone (MEK)	U		50.0	100	100	11/15/2020 20:53	WG1576904
Methylene Chloride	89.3	J	26.5	100	100	11/15/2020 20:53	WG1576904
4-Methyl-2-pentanone (MIBK)	U		40.0	100	100	11/15/2020 20:53	WG1576904
Methyl tert-butyl ether	U		1.18	4.00	100	11/15/2020 20:53	WG1576904
Naphthalene	U		12.4	50.0	100	11/15/2020 20:53	WG1576904
n-Propylbenzene	U		4.72	20.0	100	11/15/2020 20:53	WG1576904
Styrene	U		10.9	50.0	100	11/15/2020 20:53	WG1576904
1,1,1,2-Tetrachloroethane	U		2.00	10.0	100	11/15/2020 20:53	WG1576904
1,1,2,2-Tetrachloroethane	U		1.56	10.0	100	11/15/2020 20:53	WG1576904
1,1,2-Trichlorotrifluoroethane	U		2.70	10.0	100	11/15/2020 20:53	WG1576904
Tetrachloroethene	13.2		2.80	10.0	100	11/15/2020 20:53	WG1576904
Toluene	U		5.00	20.0	100	11/15/2020 20:53	WG1576904
1,2,3-Trichlorobenzene	U	C4	2.50	50.0	100	11/15/2020 20:53	WG1576904
1,2,4-Trichlorobenzene	U		19.3	50.0	100	11/15/2020 20:53	WG1576904
1,1,1-Trichloroethane	U		1.10	10.0	100	11/15/2020 20:53	WG1576904

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		3.53	10.0	100	11/15/2020 20:53	WG1576904
Trichloroethene	807		1.60	4.00	100	11/15/2020 20:53	WG1576904
Trichlorofluoromethane	U		2.00	10.0	100	11/15/2020 20:53	WG1576904
1,2,3-Trichloropropane	U		20.4	50.0	100	11/15/2020 20:53	WG1576904
1,2,4-Trimethylbenzene	U		4.64	20.0	100	11/15/2020 20:53	WG1576904
1,2,3-Trimethylbenzene	U		4.60	20.0	100	11/15/2020 20:53	WG1576904
1,3,5-Trimethylbenzene	U		4.32	20.0	100	11/15/2020 20:53	WG1576904
Vinyl chloride	360		2.73	10.0	100	11/17/2020 08:35	WG1577289
Xylenes, Total	U		19.1	26.0	100	11/15/2020 20:53	WG1576904
Ethyl Ether	16.1		1.70	10.0	100	11/15/2020 20:53	WG1576904
Tetrahydrofuran	U	C3	9.00	50.0	100	11/15/2020 20:53	WG1576904
Iodomethane	U		24.2	50.0	100	11/15/2020 20:53	WG1576904
Allyl chloride	U		58.0	100	100	11/15/2020 20:53	WG1576904
Trans-1,4-Dichloro-2-butene	U	C3	5.60	20.0	100	11/15/2020 20:53	WG1576904
(S) Toluene-d8	*103*			*75.0-131*		*11/15/2020 20:53*	WG1576904
(S) Toluene-d8	*103*			*75.0-131*		*11/17/2020 08:35*	WG1577289
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*11/15/2020 20:53*	WG1576904
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/17/2020 08:35*	WG1577289
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/15/2020 20:53*	WG1576904
(S) 1,2-Dichloroethane-d4	*86.7*			*70.0-130*		*11/17/2020 08:35*	WG1577289

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	0.816	C3 J	0.548	1.00	1	11/15/2020 18:31	WG1576904
Acrylonitrile	U		0.0760	0.500	1	11/15/2020 18:31	WG1576904
Benzene	0.0379	J	0.0160	0.0400	1	11/15/2020 18:31	WG1576904
Bromobenzene	U		0.0420	0.500	1	11/15/2020 18:31	WG1576904
Bromodichloromethane	U		0.0315	0.100	1	11/15/2020 18:31	WG1576904
Bromoform	U		0.239	1.00	1	11/15/2020 18:31	WG1576904
Bromomethane	U	J4	0.148	0.500	1	11/15/2020 18:31	WG1576904
n-Butylbenzene	U		0.153	0.500	1	11/15/2020 18:31	WG1576904
sec-Butylbenzene	U		0.101	0.500	1	11/15/2020 18:31	WG1576904
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2020 18:31	WG1576904
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2020 18:31	WG1576904
Chlorobenzene	U		0.0229	0.100	1	11/15/2020 18:31	WG1576904
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2020 18:31	WG1576904
Chloroethane	U	J4	0.0432	0.200	1	11/15/2020 18:31	WG1576904
Chloroform	U		0.0166	0.100	1	11/15/2020 18:31	WG1576904
Chloromethane	U		0.0556	0.500	1	11/15/2020 18:31	WG1576904
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2020 18:31	WG1576904
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2020 18:31	WG1576904
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2020 18:31	WG1576904
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2020 18:31	WG1576904
Dibromomethane	U		0.0400	0.200	1	11/15/2020 18:31	WG1576904
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2020 18:31	WG1576904
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2020 18:31	WG1576904
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2020 18:31	WG1576904
Dichlorodifluoromethane	U		0.0327	0.100	1	11/15/2020 18:31	WG1576904
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2020 18:31	WG1576904
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2020 18:31	WG1576904
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2020 18:31	WG1576904
cis-1,2-Dichloroethene	0.552		0.0276	0.100	1	11/15/2020 18:31	WG1576904
trans-1,2-Dichloroethene	1.06		0.0572	0.200	1	11/15/2020 18:31	WG1576904
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2020 18:31	WG1576904
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2020 18:31	WG1576904
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2020 18:31	WG1576904
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2020 18:31	WG1576904
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2020 18:31	WG1576904
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2020 18:31	WG1576904
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2020 18:31	WG1576904
Ethylbenzene	U		0.0212	0.100	1	11/15/2020 18:31	WG1576904
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2020 18:31	WG1576904
Isopropylbenzene	U		0.0345	0.100	1	11/15/2020 18:31	WG1576904
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2020 18:31	WG1576904
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2020 18:31	WG1576904
Methylene Chloride	U		0.265	1.00	1	11/15/2020 18:31	WG1576904
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2020 18:31	WG1576904
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2020 18:31	WG1576904
Naphthalene	U		0.124	0.500	1	11/15/2020 18:31	WG1576904
n-Propylbenzene	U		0.0472	0.200	1	11/15/2020 18:31	WG1576904
Styrene	U		0.109	0.500	1	11/15/2020 18:31	WG1576904
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2020 18:31	WG1576904
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2020 18:31	WG1576904
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2020 18:31	WG1576904
Tetrachloroethene	U		0.0280	0.100	1	11/15/2020 18:31	WG1576904
Toluene	0.112	J	0.0500	0.200	1	11/15/2020 18:31	WG1576904
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/15/2020 18:31	WG1576904
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2020 18:31	WG1576904
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2020 18:31	WG1576904

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2020 18:31	WG1576904
Trichloroethene	0.177		0.0160	0.0400	1	11/15/2020 18:31	WG1576904
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2020 18:31	WG1576904
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2020 18:31	WG1576904
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2020 18:31	WG1576904
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2020 18:31	WG1576904
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2020 18:31	WG1576904
Vinyl chloride	2.26		0.0273	0.100	1	11/17/2020 06:04	WG1577289
Xylenes, Total	U		0.191	0.260	1	11/15/2020 18:31	WG1576904
Ethyl Ether	U		0.0170	0.100	1	11/15/2020 18:31	WG1576904
Tetrahydrofuran	0.574	C3	0.0900	0.500	1	11/15/2020 18:31	WG1576904
Iodomethane	U		0.242	0.500	1	11/15/2020 18:31	WG1576904
Allyl chloride	U		0.580	1.00	1	11/15/2020 18:31	WG1576904
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2020 18:31	WG1576904
(S) Toluene-d8	*103*			*75.0-131*		*11/15/2020 18:31*	WG1576904
(S) Toluene-d8	*105*			*75.0-131*		*11/17/2020 06:04*	WG1577289
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*11/15/2020 18:31*	WG1576904
(S) 4-Bromofluorobenzene	*96.8*			*67.0-138*		*11/17/2020 06:04*	WG1577289
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/15/2020 18:31*	WG1576904
(S) 1,2-Dichloroethane-d4	*90.1*			*70.0-130*		*11/17/2020 06:04*	WG1577289

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.10	C3	0.548	1.00	1	11/15/2020 18:51	WG1576904
Acrylonitrile	U		0.0760	0.500	1	11/15/2020 18:51	WG1576904
Benzene	U		0.0160	0.0400	1	11/15/2020 18:51	WG1576904
Bromobenzene	U		0.0420	0.500	1	11/15/2020 18:51	WG1576904
Bromodichloromethane	U		0.0315	0.100	1	11/15/2020 18:51	WG1576904
Bromoform	U		0.239	1.00	1	11/15/2020 18:51	WG1576904
Bromomethane	U	J4	0.148	0.500	1	11/15/2020 18:51	WG1576904
n-Butylbenzene	U		0.153	0.500	1	11/15/2020 18:51	WG1576904
sec-Butylbenzene	U		0.101	0.500	1	11/15/2020 18:51	WG1576904
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2020 18:51	WG1576904
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2020 18:51	WG1576904
Chlorobenzene	U		0.0229	0.100	1	11/15/2020 18:51	WG1576904
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2020 18:51	WG1576904
Chloroethane	0.111	J J4	0.0432	0.200	1	11/15/2020 18:51	WG1576904
Chloroform	U		0.0166	0.100	1	11/15/2020 18:51	WG1576904
Chloromethane	U		0.0556	0.500	1	11/15/2020 18:51	WG1576904
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2020 18:51	WG1576904
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2020 18:51	WG1576904
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2020 18:51	WG1576904
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2020 18:51	WG1576904
Dibromomethane	U		0.0400	0.200	1	11/15/2020 18:51	WG1576904
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2020 18:51	WG1576904
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2020 18:51	WG1576904
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2020 18:51	WG1576904
Dichlorodifluoromethane	U		0.0327	0.100	1	11/15/2020 18:51	WG1576904
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2020 18:51	WG1576904
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2020 18:51	WG1576904
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2020 18:51	WG1576904
cis-1,2-Dichloroethene	0.631		0.0276	0.100	1	11/15/2020 18:51	WG1576904
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2020 18:51	WG1576904
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2020 18:51	WG1576904
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2020 18:51	WG1576904
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2020 18:51	WG1576904
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2020 18:51	WG1576904
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2020 18:51	WG1576904
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2020 18:51	WG1576904
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2020 18:51	WG1576904
Ethylbenzene	0.0250	J	0.0212	0.100	1	11/15/2020 18:51	WG1576904
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2020 18:51	WG1576904
Isopropylbenzene	U		0.0345	0.100	1	11/15/2020 18:51	WG1576904
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2020 18:51	WG1576904
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2020 18:51	WG1576904
Methylene Chloride	U		0.265	1.00	1	11/15/2020 18:51	WG1576904
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2020 18:51	WG1576904
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2020 18:51	WG1576904
Naphthalene	U		0.124	0.500	1	11/15/2020 18:51	WG1576904
n-Propylbenzene	U		0.0472	0.200	1	11/15/2020 18:51	WG1576904
Styrene	U		0.109	0.500	1	11/15/2020 18:51	WG1576904
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2020 18:51	WG1576904
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2020 18:51	WG1576904
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2020 18:51	WG1576904
Tetrachloroethene	U		0.0280	0.100	1	11/15/2020 18:51	WG1576904
Toluene	0.298		0.0500	0.200	1	11/15/2020 18:51	WG1576904
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/15/2020 18:51	WG1576904
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2020 18:51	WG1576904
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2020 18:51	WG1576904

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2020 18:51	WG1576904
Trichloroethene	U		0.0160	0.0400	1	11/15/2020 18:51	WG1576904
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2020 18:51	WG1576904
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2020 18:51	WG1576904
1,2,4-Trimethylbenzene	0.0516	B J	0.0464	0.200	1	11/15/2020 18:51	WG1576904
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2020 18:51	WG1576904
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2020 18:51	WG1576904
Vinyl chloride	0.519		0.0273	0.100	1	11/17/2020 06:23	WG1577289
Xylenes, Total	0.213	J	0.191	0.260	1	11/15/2020 18:51	WG1576904
Ethyl Ether	U		0.0170	0.100	1	11/15/2020 18:51	WG1576904
Tetrahydrofuran	U	C3	0.0900	0.500	1	11/15/2020 18:51	WG1576904
Iodomethane	U		0.242	0.500	1	11/15/2020 18:51	WG1576904
Allyl chloride	U		0.580	1.00	1	11/15/2020 18:51	WG1576904
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2020 18:51	WG1576904
(S) Toluene-d8	*103*			*75.0-131*		*11/15/2020 18:51*	WG1576904
(S) Toluene-d8	*106*			*75.0-131*		*11/17/2020 06:23*	WG1577289
(S) 4-Bromofluorobenzene	*109*			*67.0-138*		*11/15/2020 18:51*	WG1576904
(S) 4-Bromofluorobenzene	*97.9*			*67.0-138*		*11/17/2020 06:23*	WG1577289
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*11/15/2020 18:51*	WG1576904
(S) 1,2-Dichloroethane-d4	*88.8*			*70.0-130*		*11/17/2020 06:23*	WG1577289

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	0.922	C3 J	0.548	1.00	1	11/15/2020 19:11	WG1576904
Acrylonitrile	U		0.0760	0.500	1	11/15/2020 19:11	WG1576904
Benzene	0.148		0.0160	0.0400	1	11/15/2020 19:11	WG1576904
Bromobenzene	U		0.0420	0.500	1	11/15/2020 19:11	WG1576904
Bromodichloromethane	U		0.0315	0.100	1	11/15/2020 19:11	WG1576904
Bromoform	U		0.239	1.00	1	11/15/2020 19:11	WG1576904
Bromomethane	U	J4	0.148	0.500	1	11/15/2020 19:11	WG1576904
n-Butylbenzene	U		0.153	0.500	1	11/15/2020 19:11	WG1576904
sec-Butylbenzene	U		0.101	0.500	1	11/15/2020 19:11	WG1576904
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2020 19:11	WG1576904
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2020 19:11	WG1576904
Chlorobenzene	U		0.0229	0.100	1	11/15/2020 19:11	WG1576904
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2020 19:11	WG1576904
Chloroethane	0.422		0.0432	0.200	1	11/17/2020 06:42	WG1577289
Chloroform	U		0.0166	0.100	1	11/15/2020 19:11	WG1576904
Chloromethane	U		0.0556	0.500	1	11/15/2020 19:11	WG1576904
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2020 19:11	WG1576904
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2020 19:11	WG1576904
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2020 19:11	WG1576904
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2020 19:11	WG1576904
Dibromomethane	U		0.0400	0.200	1	11/15/2020 19:11	WG1576904
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2020 19:11	WG1576904
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2020 19:11	WG1576904
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2020 19:11	WG1576904
Dichlorodifluoromethane	U		0.0327	0.100	1	11/15/2020 19:11	WG1576904
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2020 19:11	WG1576904
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2020 19:11	WG1576904
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2020 19:11	WG1576904
cis-1,2-Dichloroethene	0.351		0.0276	0.100	1	11/15/2020 19:11	WG1576904
trans-1,2-Dichloroethene	0.0586	J	0.0572	0.200	1	11/15/2020 19:11	WG1576904
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2020 19:11	WG1576904
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2020 19:11	WG1576904
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2020 19:11	WG1576904
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2020 19:11	WG1576904
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2020 19:11	WG1576904
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2020 19:11	WG1576904
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2020 19:11	WG1576904
Ethylbenzene	U		0.0212	0.100	1	11/15/2020 19:11	WG1576904
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2020 19:11	WG1576904
Isopropylbenzene	U		0.0345	0.100	1	11/15/2020 19:11	WG1576904
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2020 19:11	WG1576904
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2020 19:11	WG1576904
Methylene Chloride	U		0.265	1.00	1	11/15/2020 19:11	WG1576904
4-Methyl-2-pentanone (MIBK)	0.426	J	0.400	1.00	1	11/15/2020 19:11	WG1576904
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2020 19:11	WG1576904
Naphthalene	U		0.124	0.500	1	11/15/2020 19:11	WG1576904
n-Propylbenzene	U		0.0472	0.200	1	11/15/2020 19:11	WG1576904
Styrene	U		0.109	0.500	1	11/15/2020 19:11	WG1576904
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2020 19:11	WG1576904
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2020 19:11	WG1576904
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2020 19:11	WG1576904
Tetrachloroethene	0.0313	J	0.0280	0.100	1	11/15/2020 19:11	WG1576904
Toluene	0.0656	J	0.0500	0.200	1	11/15/2020 19:11	WG1576904
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/15/2020 19:11	WG1576904
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2020 19:11	WG1576904
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2020 19:11	WG1576904

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2020 19:11	WG1576904
Trichloroethene	0.0895		0.0160	0.0400	1	11/15/2020 19:11	WG1576904
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2020 19:11	WG1576904
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2020 19:11	WG1576904
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2020 19:11	WG1576904
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2020 19:11	WG1576904
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2020 19:11	WG1576904
Vinyl chloride	0.900		0.0273	0.100	1	11/17/2020 06:42	WG1577289
Xylenes, Total	U		0.191	0.260	1	11/15/2020 19:11	WG1576904
Ethyl Ether	U		0.0170	0.100	1	11/15/2020 19:11	WG1576904
Tetrahydrofuran	6.76	C3	0.0900	0.500	1	11/15/2020 19:11	WG1576904
Iodomethane	U		0.242	0.500	1	11/15/2020 19:11	WG1576904
Allyl chloride	U		0.580	1.00	1	11/15/2020 19:11	WG1576904
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2020 19:11	WG1576904
(S) Toluene-d8	*104*			*75.0-131*		*11/15/2020 19:11*	WG1576904
(S) Toluene-d8	*101*			*75.0-131*		*11/17/2020 06:42*	WG1577289
(S) 4-Bromofluorobenzene	*109*			*67.0-138*		*11/15/2020 19:11*	WG1576904
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*11/17/2020 06:42*	WG1577289
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/15/2020 19:11*	WG1576904
(S) 1,2-Dichloroethane-d4	*95.1*			*70.0-130*		*11/17/2020 06:42*	WG1577289

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	106000		2970	25000	5	11/16/2020 06:29	WG1576516

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)	3590		102	1000	1	11/16/2020 08:06	WG1576993

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1530		28.1	100	1	11/13/2020 22:38	WG1574211
Manganese	1930		7.04	50.0	10	11/13/2020 22:51	WG1574211

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	2040		0.287	0.678	1	11/14/2020 04:32	WG1576414
Ethane	U		0.296	1.29	1	11/14/2020 04:32	WG1576414
Ethene	U		0.422	1.27	1	11/14/2020 04:32	WG1576414

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	179	C3	27.4	50.0	50	11/15/2020 21:13	WG1576904
Acrylonitrile	U		3.80	25.0	50	11/15/2020 21:13	WG1576904
Benzene	U		0.800	2.00	50	11/15/2020 21:13	WG1576904
Bromobenzene	U		2.10	25.0	50	11/15/2020 21:13	WG1576904
Bromodichloromethane	U		1.58	5.00	50	11/15/2020 21:13	WG1576904
Bromoform	U		12.0	50.0	50	11/15/2020 21:13	WG1576904
Bromomethane	U	J4	7.40	25.0	50	11/15/2020 21:13	WG1576904
n-Butylbenzene	U		7.65	25.0	50	11/15/2020 21:13	WG1576904
sec-Butylbenzene	U		5.05	25.0	50	11/15/2020 21:13	WG1576904
tert-Butylbenzene	U		3.10	10.0	50	11/15/2020 21:13	WG1576904
Carbon tetrachloride	U		2.16	10.0	50	11/15/2020 21:13	WG1576904
Chlorobenzene	U		1.15	5.00	50	11/15/2020 21:13	WG1576904
Chlorodibromomethane	U		0.900	5.00	50	11/15/2020 21:13	WG1576904
Chloroethane	U	J4	2.16	10.0	50	11/15/2020 21:13	WG1576904
Chloroform	1.39	J	0.830	5.00	50	11/15/2020 21:13	WG1576904
Chloromethane	U		2.78	25.0	50	11/15/2020 21:13	WG1576904
2-Chlorotoluene	U		1.84	5.00	50	11/15/2020 21:13	WG1576904
4-Chlorotoluene	U		2.26	10.0	50	11/15/2020 21:13	WG1576904
1,2-Dibromo-3-Chloropropane	U		10.2	50.0	50	11/15/2020 21:13	WG1576904
1,2-Dibromoethane	U		1.05	5.00	50	11/15/2020 21:13	WG1576904
Dibromomethane	U		2.00	10.0	50	11/15/2020 21:13	WG1576904
1,2-Dichlorobenzene	U		2.90	10.0	50	11/15/2020 21:13	WG1576904
1,3-Dichlorobenzene	U		3.40	10.0	50	11/15/2020 21:13	WG1576904
1,4-Dichlorobenzene	U		3.94	10.0	50	11/15/2020 21:13	WG1576904
Dichlorodifluoromethane	U		1.64	5.00	50	11/15/2020 21:13	WG1576904
1,1-Dichloroethane	U		1.15	5.00	50	11/15/2020 21:13	WG1576904
1,2-Dichloroethane	U		0.950	5.00	50	11/15/2020 21:13	WG1576904
1,1-Dichloroethene	5.82		1.00	5.00	50	11/15/2020 21:13	WG1576904
cis-1,2-Dichloroethene	894		1.38	5.00	50	11/15/2020 21:13	WG1576904
trans-1,2-Dichloroethene	2.96	J	2.86	10.0	50	11/15/2020 21:13	WG1576904
1,2-Dichloropropane	U		2.54	10.0	50	11/15/2020 21:13	WG1576904

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		1.40	5.00	50	11/15/2020 21:13	WG1576904
1,3-Dichloropropane	U		3.50	10.0	50	11/15/2020 21:13	WG1576904
cis-1,3-Dichloropropene	U		1.36	5.00	50	11/15/2020 21:13	WG1576904
trans-1,3-Dichloropropene	U		3.06	10.0	50	11/15/2020 21:13	WG1576904
2,2-Dichloropropane	U		1.59	5.00	50	11/15/2020 21:13	WG1576904
Di-isopropyl ether	U		0.700	2.00	50	11/15/2020 21:13	WG1576904
Ethylbenzene	U		1.06	5.00	50	11/15/2020 21:13	WG1576904
Hexachloro-1,3-butadiene	U		25.4	50.0	50	11/15/2020 21:13	WG1576904
Isopropylbenzene	U		1.73	5.00	50	11/15/2020 21:13	WG1576904
p-Isopropyltoluene	U		4.66	10.0	50	11/15/2020 21:13	WG1576904
2-Butanone (MEK)	U		25.0	50.0	50	11/15/2020 21:13	WG1576904
Methylene Chloride	46.0	J	13.3	50.0	50	11/15/2020 21:13	WG1576904
4-Methyl-2-pentanone (MIBK)	U		20.0	50.0	50	11/15/2020 21:13	WG1576904
Methyl tert-butyl ether	U		0.590	2.00	50	11/15/2020 21:13	WG1576904
Naphthalene	U		6.20	25.0	50	11/15/2020 21:13	WG1576904
n-Propylbenzene	U		2.36	10.0	50	11/15/2020 21:13	WG1576904
Styrene	U		5.45	25.0	50	11/15/2020 21:13	WG1576904
1,1,1,2-Tetrachloroethane	U		1.00	5.00	50	11/15/2020 21:13	WG1576904
1,1,2,2-Tetrachloroethane	U		0.780	5.00	50	11/15/2020 21:13	WG1576904
1,1,2-Trichlorotrifluoroethane	U		1.35	5.00	50	11/15/2020 21:13	WG1576904
Tetrachloroethene	640		1.40	5.00	50	11/15/2020 21:13	WG1576904
Toluene	U		2.50	10.0	50	11/15/2020 21:13	WG1576904
1,2,3-Trichlorobenzene	U	C4	1.25	25.0	50	11/15/2020 21:13	WG1576904
1,2,4-Trichlorobenzene	U		9.65	25.0	50	11/15/2020 21:13	WG1576904
1,1,1-Trichloroethane	U		0.550	5.00	50	11/15/2020 21:13	WG1576904
1,1,2-Trichloroethane	U		1.77	5.00	50	11/15/2020 21:13	WG1576904
Trichloroethene	343		0.800	2.00	50	11/15/2020 21:13	WG1576904
Trichlorofluoromethane	U		1.00	5.00	50	11/15/2020 21:13	WG1576904
1,2,3-Trichloropropane	U		10.2	25.0	50	11/15/2020 21:13	WG1576904
1,2,4-Trimethylbenzene	U		2.32	10.0	50	11/15/2020 21:13	WG1576904
1,2,3-Trimethylbenzene	U		2.30	10.0	50	11/15/2020 21:13	WG1576904
1,3,5-Trimethylbenzene	U		2.16	10.0	50	11/15/2020 21:13	WG1576904
Vinyl chloride	29.6		1.36	5.00	50	11/17/2020 08:54	WG1577289
Xylenes, Total	U		9.55	13.0	50	11/15/2020 21:13	WG1576904
Ethyl Ether	7.07		0.850	5.00	50	11/15/2020 21:13	WG1576904
Tetrahydrofuran	U	C3	4.50	25.0	50	11/15/2020 21:13	WG1576904
Iodomethane	U		12.1	25.0	50	11/15/2020 21:13	WG1576904
Allyl chloride	U		29.0	50.0	50	11/15/2020 21:13	WG1576904
Trans-1,4-Dichloro-2-butene	U	C3	2.80	10.0	50	11/15/2020 21:13	WG1576904
(S) Toluene-d8	*102*			*75.0-131*		*11/15/2020 21:13*	WG1576904
(S) Toluene-d8	*107*			*75.0-131*		*11/17/2020 08:54*	WG1577289
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*11/15/2020 21:13*	WG1576904
(S) 4-Bromofluorobenzene	*97.1*			*67.0-138*		*11/17/2020 08:54*	WG1577289
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*11/15/2020 21:13*	WG1576904
(S) 1,2-Dichloroethane-d4	*90.5*			*70.0-130*		*11/17/2020 08:54*	WG1577289

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	C3	0.548	1.00	1	11/15/2020 19:32	WG1576904
Acrylonitrile	U		0.0760	0.500	1	11/15/2020 19:32	WG1576904
Benzene	U		0.0160	0.0400	1	11/15/2020 19:32	WG1576904
Bromobenzene	U		0.0420	0.500	1	11/15/2020 19:32	WG1576904
Bromodichloromethane	U		0.0315	0.100	1	11/15/2020 19:32	WG1576904
Bromoform	U		0.239	1.00	1	11/15/2020 19:32	WG1576904
Bromomethane	U	J4	0.148	0.500	1	11/15/2020 19:32	WG1576904
n-Butylbenzene	U		0.153	0.500	1	11/15/2020 19:32	WG1576904
sec-Butylbenzene	U		0.101	0.500	1	11/15/2020 19:32	WG1576904
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2020 19:32	WG1576904
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2020 19:32	WG1576904
Chlorobenzene	U		0.0229	0.100	1	11/15/2020 19:32	WG1576904
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2020 19:32	WG1576904
Chloroethane	U	J4	0.0432	0.200	1	11/15/2020 19:32	WG1576904
Chloroform	U		0.0166	0.100	1	11/15/2020 19:32	WG1576904
Chloromethane	U		0.0556	0.500	1	11/15/2020 19:32	WG1576904
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2020 19:32	WG1576904
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2020 19:32	WG1576904
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2020 19:32	WG1576904
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2020 19:32	WG1576904
Dibromomethane	U		0.0400	0.200	1	11/15/2020 19:32	WG1576904
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2020 19:32	WG1576904
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2020 19:32	WG1576904
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2020 19:32	WG1576904
Dichlorodifluoromethane	U		0.0327	0.100	1	11/15/2020 19:32	WG1576904
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2020 19:32	WG1576904
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2020 19:32	WG1576904
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2020 19:32	WG1576904
cis-1,2-Dichloroethene	0.0977	J	0.0276	0.100	1	11/15/2020 19:32	WG1576904
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2020 19:32	WG1576904
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2020 19:32	WG1576904
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2020 19:32	WG1576904
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2020 19:32	WG1576904
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2020 19:32	WG1576904
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2020 19:32	WG1576904
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2020 19:32	WG1576904
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2020 19:32	WG1576904
Ethylbenzene	U		0.0212	0.100	1	11/15/2020 19:32	WG1576904
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2020 19:32	WG1576904
Isopropylbenzene	U		0.0345	0.100	1	11/15/2020 19:32	WG1576904
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2020 19:32	WG1576904
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2020 19:32	WG1576904
Methylene Chloride	U		0.265	1.00	1	11/15/2020 19:32	WG1576904
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2020 19:32	WG1576904
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2020 19:32	WG1576904
Naphthalene	U		0.124	0.500	1	11/15/2020 19:32	WG1576904
n-Propylbenzene	U		0.0472	0.200	1	11/15/2020 19:32	WG1576904
Styrene	U		0.109	0.500	1	11/15/2020 19:32	WG1576904
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2020 19:32	WG1576904
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2020 19:32	WG1576904
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2020 19:32	WG1576904
Tetrachloroethene	U		0.0280	0.100	1	11/15/2020 19:32	WG1576904
Toluene	0.179	J	0.0500	0.200	1	11/15/2020 19:32	WG1576904
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/15/2020 19:32	WG1576904
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2020 19:32	WG1576904
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2020 19:32	WG1576904

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2020 19:32	WG1576904
Trichloroethene	U		0.0160	0.0400	1	11/15/2020 19:32	WG1576904
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2020 19:32	WG1576904
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2020 19:32	WG1576904
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2020 19:32	WG1576904
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2020 19:32	WG1576904
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2020 19:32	WG1576904
Vinyl chloride	U		0.0273	0.100	1	11/18/2020 13:46	WG1578207
Xylenes, Total	U		0.191	0.260	1	11/15/2020 19:32	WG1576904
Ethyl Ether	U		0.0170	0.100	1	11/15/2020 19:32	WG1576904
Tetrahydrofuran	U	C3	0.0900	0.500	1	11/15/2020 19:32	WG1576904
Iodomethane	U		0.242	0.500	1	11/15/2020 19:32	WG1576904
Allyl chloride	U		0.580	1.00	1	11/15/2020 19:32	WG1576904
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2020 19:32	WG1576904
(S) Toluene-d8	*104*			*75.0-131*		*11/15/2020 19:32*	WG1576904
(S) Toluene-d8	*109*			*75.0-131*		*11/18/2020 13:46*	WG1578207
(S) 4-Bromofluorobenzene	*111*			*67.0-138*		*11/15/2020 19:32*	WG1576904
(S) 4-Bromofluorobenzene	*98.9*			*67.0-138*		*11/18/2020 13:46*	WG1578207
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/15/2020 19:32*	WG1576904
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*11/18/2020 13:46*	WG1578207

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2020 14:43	WG1578255
Acrylonitrile	U		0.0760	0.500	1	11/18/2020 14:43	WG1578255
Benzene	U		0.0160	0.0400	1	11/18/2020 14:43	WG1578255
Bromobenzene	U		0.0420	0.500	1	11/18/2020 14:43	WG1578255
Bromodichloromethane	U		0.0315	0.100	1	11/18/2020 14:43	WG1578255
Bromoform	U		0.239	1.00	1	11/18/2020 14:43	WG1578255
Bromomethane	U		0.148	0.500	1	11/18/2020 14:43	WG1578255
n-Butylbenzene	U		0.153	0.500	1	11/18/2020 14:43	WG1578255
sec-Butylbenzene	U		0.101	0.500	1	11/18/2020 14:43	WG1578255
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2020 14:43	WG1578255
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2020 14:43	WG1578255
Chlorobenzene	U		0.0229	0.100	1	11/18/2020 14:43	WG1578255
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2020 14:43	WG1578255
Chloroethane	U	J4	0.0432	0.200	1	11/18/2020 14:43	WG1578255
Chloroform	U		0.0166	0.100	1	11/18/2020 14:43	WG1578255
Chloromethane	U		0.0556	0.500	1	11/18/2020 14:43	WG1578255
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2020 14:43	WG1578255
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2020 14:43	WG1578255
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2020 14:43	WG1578255
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2020 14:43	WG1578255
Dibromomethane	U		0.0400	0.200	1	11/18/2020 14:43	WG1578255
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2020 14:43	WG1578255
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2020 14:43	WG1578255
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2020 14:43	WG1578255
Dichlorodifluoromethane	U		0.0327	0.100	1	11/18/2020 14:43	WG1578255
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2020 14:43	WG1578255
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2020 14:43	WG1578255
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2020 14:43	WG1578255
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/18/2020 14:43	WG1578255
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2020 14:43	WG1578255
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2020 14:43	WG1578255
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2020 14:43	WG1578255
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2020 14:43	WG1578255
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2020 14:43	WG1578255
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2020 14:43	WG1578255
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2020 14:43	WG1578255
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2020 14:43	WG1578255
Ethylbenzene	U		0.0212	0.100	1	11/18/2020 14:43	WG1578255
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/18/2020 14:43	WG1578255
Isopropylbenzene	U		0.0345	0.100	1	11/18/2020 14:43	WG1578255
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2020 14:43	WG1578255
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2020 14:43	WG1578255
Methylene Chloride	U		0.265	1.00	1	11/18/2020 14:43	WG1578255
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2020 14:43	WG1578255
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2020 14:43	WG1578255
Naphthalene	U		0.124	0.500	1	11/18/2020 14:43	WG1578255
n-Propylbenzene	U		0.0472	0.200	1	11/18/2020 14:43	WG1578255
Styrene	U		0.109	0.500	1	11/18/2020 14:43	WG1578255
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2020 14:43	WG1578255
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2020 14:43	WG1578255
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2020 14:43	WG1578255
Tetrachloroethene	U		0.0280	0.100	1	11/18/2020 14:43	WG1578255
Toluene	U		0.0500	0.200	1	11/18/2020 14:43	WG1578255
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2020 14:43	WG1578255
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2020 14:43	WG1578255
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2020 14:43	WG1578255

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2020 14:43	WG1578255
Trichloroethene	U		0.0160	0.0400	1	11/18/2020 14:43	WG1578255
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2020 14:43	WG1578255
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2020 14:43	WG1578255
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2020 14:43	WG1578255
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2020 14:43	WG1578255
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2020 14:43	WG1578255
Vinyl chloride	U		0.0273	0.100	1	11/18/2020 14:43	WG1578255
Xylenes, Total	U		0.191	0.260	1	11/18/2020 14:43	WG1578255
Ethyl Ether	U		0.0170	0.100	1	11/18/2020 14:43	WG1578255
Tetrahydrofuran	U		0.0900	0.500	1	11/18/2020 14:43	WG1578255
Iodomethane	U		0.242	0.500	1	11/18/2020 14:43	WG1578255
Allyl chloride	U		0.580	1.00	1	11/18/2020 14:43	WG1578255
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/18/2020 14:43	WG1578255
(S) Toluene-d8	*108*			*75.0-131*		*11/18/2020 14:43*	WG1578255
(S) 4-Bromofluorobenzene	*96.1*			*67.0-138*		*11/18/2020 14:43*	WG1578255
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*11/18/2020 14:43*	WG1578255

Method Blank (MB)

(MB) R3593351-1 11/15/20 21:45

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Sulfate	U		594	5000

L1283126-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1283126-02 11/15/20 22:48 • (DUP) R3593351-3 11/15/20 23:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Sulfate	62000	62000	1	0.116		15

L1283490-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1283490-03 11/16/20 04:54 • (DUP) R3593351-6 11/16/20 05:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Sulfate	41200	41100	1	0.264		15

Laboratory Control Sample (LCS)

(LCS) R3593351-8 11/16/20 08:29

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Sulfate	40000	39900	99.6	80.0-120	

L1283126-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283126-02 11/15/20 22:48 • (MS) R3593351-4 11/15/20 23:20 • (MSD) R3593351-5 11/15/20 23:36

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	%	%		%			%	%
Sulfate	50000	62000	107000	107000	90.5	91.0	1	80.0-120	E	E	0.253	15

L1283490-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1283490-03 11/16/20 04:54 • (MS) R3593351-7 11/16/20 05:26

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	ug/l	ug/l	ug/l	%		%	
Sulfate	50000	41200	91900	101	1	80.0-120	

Method Blank (MB)

(MB) R3593458-1 11/16/20 02:18

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	362	J	102	1000

Laboratory Control Sample (LCS)

(LCS) R3593458-2 11/16/20 02:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	76100	102	85.0-115	

L1283189-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283189-02 11/16/20 02:56 • (MS) R3593458-3 11/16/20 03:09 • (MSD) R3593458-4 11/16/20 03:23

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 (Total Organic Carbon)	50000	1110	50700	51700	99.2	101	1	80.0-120			2.01	20

L1283189-33 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283189-33 11/16/20 08:39 • (MS) R3593458-6 11/16/20 08:54 • (MSD) R3593458-7 11/16/20 09:09

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 %
TOC (Total Organic Carbon)	50000	12400	68000	65400	111	106	1	80.0-120			3.88	20

Method Blank (MB)

(MB) R3594229-1 11/15/20 18:20

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	280	J	102	1000

L1281077-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1281077-05 11/16/20 04:34 • (DUP) R3594229-4 11/16/20 05:19

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	1990	1930	1	2.74		20

L1283490-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1283490-13 11/16/20 08:06 • (DUP) R3594229-5 11/16/20 08:47

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	3590	3490	1	2.93		20

Laboratory Control Sample (LCS)

(LCS) R3594229-2 11/15/20 19:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	74900	99.8	85.0-115	

L1283562-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283562-03 11/16/20 13:45 • (MS) R3594229-6 11/16/20 14:11 • (MSD) R3594229-7 11/16/20 14:47

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 (Total Organic Carbon)	50000	212	50000	50000	99.6	99.6	1	80.0-120			0.0178	20

Method Blank (MB)

(MB) R3594281-1 11/17/20 22:51

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	308	J	102	1000

L1283562-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1283562-05 11/18/20 00:28 • (DUP) R3594281-3 11/18/20 00:39

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	336	322	1	4.32	J	20

Laboratory Control Sample (LCS)

(LCS) R3594281-2 11/17/20 23:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	79300	106	85.0-115	

L1283562-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283562-09 11/18/20 03:02 • (MS) R3594281-6 11/18/20 03:17 • (MSD) R3594281-7 11/18/20 03:32

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 %
TOC (Total Organic Carbon)	50000	4630	55700	56300	102	103	1	80.0-120			1.07	20

Method Blank (MB)

(MB) R3592978-1 11/13/20 19:16

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

Laboratory Control Sample (LCS)

(LCS) R3592978-2 11/13/20 19:20

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	5000	4950	98.9	80.0-120	
Manganese	50.0	46.6	93.3	80.0-120	

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3592978-4 11/13/20 19:30 • (MSD) R3592978-5 11/13/20 19:34

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	%	%		%			%	%
Iron	5000		6250	6330	103	105	1	75.0-125			1.35	20
Manganese	50.0		107	104	99.6	93.7	1	75.0-125			2.80	20

Method Blank (MB)

(MB) R3592850-1 11/12/20 22:39

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

Laboratory Control Sample (LCS)

(LCS) R3592850-2 11/12/20 22:43

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	5000	4940	98.9	80.0-120	
Manganese	50.0	48.9	97.8	80.0-120	

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3592850-4 11/12/20 22:53 • (MSD) R3592850-5 11/12/20 22:56

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	%	%		%			%	%
Iron	5000		4770	5150	95.4	103	1	75.0-125			7.67	20
Manganese	50.0		50.8	52.6	95.3	99.0	1	75.0-125			3.56	20

Method Blank (MB)

(MB) R3593020-2 11/14/20 05:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678

L1283083-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1283083-11 11/14/20 05:21 • (DUP) R3593020-3 11/14/20 05:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	10700	10800	10	0.930		20

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

(LCS) R3593020-1 11/14/20 05:01 • (LCSD) R3593020-4 11/14/20 06:33

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	68.4	66.5	101	98.1	85.0-115			2.82	20

Method Blank (MB)

(MB) R3593016-2 11/14/20 03:49

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

L1283418-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1283418-01 11/14/20 03:55 • (DUP) R3593016-3 11/14/20 04:27

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	2520	2440	1	3.23		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1283569-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1283569-01 11/14/20 04:35 • (DUP) R3593016-4 11/14/20 04:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	59.3	51.4	1	14.3		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) R3593016-1 11/14/20 03:45 • (LCSD) R3593016-5 11/14/20 05:01

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	67.7	68.4	99.9	101	85.0-115			1.03	20
Ethane	129	131	132	102	102	85.0-115			0.760	20
Ethene	127	132	130	104	102	85.0-115			1.53	20

Method Blank (MB)

(MB) R3591762-3 11/10/20 08:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	0.107	J	0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00

Method Blank (MB)

(MB) R3591762-3 11/10/20 08:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	0.100	J	0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	0.211	J	0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	0.248	J	0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*104*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*95.2*			*70.0-130*

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

(LCS) R3591762-1 11/10/20 07:09 • (LCSD) R3591762-2 11/10/20 07:29

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	21.9	21.8	87.6	87.2	10.0-160			0.458	31
Acrylonitrile	25.0	24.4	25.3	97.6	101	45.0-153			3.62	22

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

(LCS) R3591762-1 11/10/20 07:09 • (LCSD) R3591762-2 11/10/20 07:29

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 %
Benzene	5.00	4.77	4.60	95.4	92.0	70.0-123			3.63	20
Bromobenzene	5.00	4.44	4.44	88.8	88.8	73.0-121			0.000	20
Bromodichloromethane	5.00	4.71	4.54	94.2	90.8	73.0-121			3.68	20
Bromoform	5.00	5.04	5.02	101	100	64.0-132			0.398	20
Bromomethane	5.00	4.72	4.68	94.4	93.6	56.0-147			0.851	20
n-Butylbenzene	5.00	4.61	4.73	92.2	94.6	68.0-135			2.57	20
sec-Butylbenzene	5.00	4.74	4.84	94.8	96.8	74.0-130			2.09	20
tert-Butylbenzene	5.00	4.87	4.78	97.4	95.6	75.0-127			1.87	20
Carbon tetrachloride	5.00	4.89	4.99	97.8	99.8	66.0-128			2.02	20
Chlorobenzene	5.00	4.93	4.85	98.6	97.0	76.0-128			1.64	20
Chlorodibromomethane	5.00	4.81	4.81	96.2	96.2	74.0-127			0.000	20
Chloroethane	5.00	4.12	4.44	82.4	88.8	61.0-134			7.48	20
Chloroform	5.00	4.78	4.77	95.6	95.4	72.0-123			0.209	20
Chloromethane	5.00	4.55	4.38	91.0	87.6	51.0-138			3.81	20
2-Chlorotoluene	5.00	4.58	4.57	91.6	91.4	75.0-124			0.219	20
4-Chlorotoluene	5.00	4.59	4.61	91.8	92.2	75.0-124			0.435	20
1,2-Dibromo-3-Chloropropane	5.00	4.75	5.03	95.0	101	59.0-130			5.73	20
1,2-Dibromoethane	5.00	4.99	5.00	99.8	100	74.0-128			0.200	20
Dibromomethane	5.00	4.96	4.96	99.2	99.2	75.0-122			0.000	20
1,2-Dichlorobenzene	5.00	4.90	4.93	98.0	98.6	76.0-124			0.610	20
1,3-Dichlorobenzene	5.00	4.80	4.83	96.0	96.6	76.0-125			0.623	20
1,4-Dichlorobenzene	5.00	4.77	4.77	95.4	95.4	77.0-121			0.000	20
trans-1,4-Dichloro-2-butene	5.00	2.71	2.70	54.2	54.0	45.0-143			0.370	20
Dichlorodifluoromethane	5.00	5.17	4.96	103	99.2	43.0-156			4.15	20
1,1-Dichloroethane	5.00	4.76	4.77	95.2	95.4	70.0-127			0.210	20
1,2-Dichloroethane	5.00	4.64	4.63	92.8	92.6	65.0-131			0.216	20
1,1-Dichloroethene	5.00	4.67	4.41	93.4	88.2	65.0-131			5.73	20
trans-1,2-Dichloroethene	5.00	4.90	4.77	98.0	95.4	71.0-125			2.69	20
1,2-Dichloropropane	5.00	4.80	4.71	96.0	94.2	74.0-125			1.89	20
1,1-Dichloropropene	5.00	4.97	4.73	99.4	94.6	73.0-125			4.95	20
1,3-Dichloropropane	5.00	4.95	5.02	99.0	100	80.0-125			1.40	20
cis-1,3-Dichloropropene	5.00	4.91	4.73	98.2	94.6	76.0-127			3.73	20
trans-1,3-Dichloropropene	5.00	4.96	4.80	99.2	96.0	73.0-127			3.28	20
2,2-Dichloropropane	5.00	4.67	4.31	93.4	86.2	59.0-135			8.02	20
Di-isopropyl ether	5.00	4.52	4.69	90.4	93.8	60.0-136			3.69	20
Ethylbenzene	5.00	4.83	4.84	96.6	96.8	74.0-126			0.207	20
Ethyl ether	5.00	4.98	5.05	99.6	101	64.0-137			1.40	20
Hexachloro-1,3-butadiene	5.00	5.04	4.94	101	98.8	57.0-150			2.00	20
Iodomethane	25.0	23.4	24.5	93.6	98.0	74.0-134			4.59	20
Isopropylbenzene	5.00	4.77	4.94	95.4	98.8	72.0-127			3.50	20

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

(LCS) R3591762-1 11/10/20 07:09 • (LCSD) R3591762-2 11/10/20 07:29

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
p-Isopropyltoluene	5.00	4.77	4.90	95.4	98.0	72.0-133			2.69	20
2-Butanone (MEK)	25.0	24.4	25.1	97.6	100	30.0-160			2.83	24
Methylene Chloride	5.00	4.82	4.84	96.4	96.8	68.0-123			0.414	20
4-Methyl-2-pentanone (MIBK)	25.0	23.7	24.2	94.8	96.8	56.0-143			2.09	20
Methyl tert-butyl ether	5.00	4.51	4.90	90.2	98.0	66.0-132			8.29	20
Naphthalene	5.00	4.40	5.16	88.0	103	59.0-130			15.9	20
n-Propylbenzene	5.00	4.59	4.63	91.8	92.6	74.0-126			0.868	20
Styrene	5.00	4.89	4.90	97.8	98.0	72.0-127			0.204	20
1,1,1,2-Tetrachloroethane	5.00	5.02	5.02	100	100	74.0-129			0.000	20
1,1,2,2-Tetrachloroethane	5.00	4.57	4.59	91.4	91.8	68.0-128			0.437	20
Tetrachloroethene	5.00	5.08	4.86	102	97.2	70.0-136			4.43	20
Tetrahydrofuran	5.00	3.94	4.01	78.8	80.2	37.0-146			1.76	24
Toluene	5.00	4.82	4.71	96.4	94.2	75.0-121			2.31	20
1,1,2-Trichlorotrifluoroethane	5.00	4.48	4.77	89.6	95.4	61.0-139			6.27	20
1,2,3-Trichlorobenzene	5.00	4.34	5.23	86.8	105	59.0-139			18.6	20
1,2,4-Trichlorobenzene	5.00	4.61	5.20	92.2	104	62.0-137			12.0	20
1,1,1-Trichloroethane	5.00	4.94	5.16	98.8	103	69.0-126			4.36	20
1,1,2-Trichloroethane	5.00	5.02	5.00	100	100	78.0-123			0.399	20
Trichloroethene	5.00	4.98	4.78	99.6	95.6	76.0-126			4.10	20
Trichlorofluoromethane	5.00	4.47	4.20	89.4	84.0	61.0-142			6.23	20
1,2,3-Trichloropropane	5.00	4.85	5.09	97.0	102	67.0-129			4.83	20
1,2,3-Trimethylbenzene	5.00	4.57	4.69	91.4	93.8	74.0-124			2.59	20
1,2,4-Trimethylbenzene	5.00	4.71	4.76	94.2	95.2	70.0-126			1.06	20
1,3,5-Trimethylbenzene	5.00	4.67	4.69	93.4	93.8	73.0-127			0.427	20
Xylenes, Total	15.0	14.6	14.3	97.3	95.3	72.0-127			2.08	20
Allyl chloride	25.0	23.4	23.2	93.6	92.8	70.0-131			0.858	20
(S) Toluene-d8				*105*	*105*	*75.0-131*				
(S) 4-Bromofluorobenzene				*106*	*107*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*97.1*	*98.6*	*70.0-130*				

Method Blank (MB)

(MB) R3592675-2 11/12/20 09:56

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*105*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*97.7*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3592675-1 11/12/20 09:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	5.00	4.80	96.0	73.0-125	
Vinyl chloride	5.00	4.29	85.8	63.0-134	
(S) Toluene-d8			*101*	*75.0-131*	
(S) 4-Bromofluorobenzene			*107*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*102*	*70.0-130*	

Method Blank (MB)

(MB) R3593536-3 11/15/20 13:07

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	0.156	J	0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	0.0686	J	0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100

Method Blank (MB)

(MB) R3593536-3 11/15/20 13:07

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	0.111	J	0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	0.326	J	0.0250	0.500
1,2,4-Trichlorobenzene	0.194	J	0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	0.0595	J	0.0464	0.200
1,3,5-Trimethylbenzene	0.0524	J	0.0432	0.200
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*110*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*

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

(LCS) R3593536-1 11/15/20 12:06 • (LCSD) R3593536-2 11/15/20 12:27

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	16.0	16.1	64.0	64.4	10.0-160			0.623	31
Acrylonitrile	25.0	23.7	24.1	94.8	96.4	45.0-153			1.67	22
Benzene	5.00	4.79	4.89	95.8	97.8	70.0-123			2.07	20
Bromobenzene	5.00	4.41	4.27	88.2	85.4	73.0-121			3.23	20
Bromodichloromethane	5.00	5.15	5.32	103	106	73.0-121			3.25	20
Bromoform	5.00	5.58	5.54	112	111	64.0-132			0.719	20
Bromomethane	5.00	7.65	7.46	153	149	56.0-147	J4	J4	2.51	20
n-Butylbenzene	5.00	4.55	4.65	91.0	93.0	68.0-135			2.17	20
sec-Butylbenzene	5.00	4.73	5.46	94.6	109	74.0-130			14.3	20
tert-Butylbenzene	5.00	4.97	5.68	99.4	114	75.0-127			13.3	20
Carbon tetrachloride	5.00	6.06	6.21	121	124	66.0-128			2.44	20
Chlorobenzene	5.00	5.08	5.19	102	104	76.0-128			2.14	20
Chlorodibromomethane	5.00	5.17	5.34	103	107	74.0-127			3.24	20
Chloroethane	5.00	7.18	7.55	144	151	61.0-134	J4	J4	5.02	20
Chloroform	5.00	5.25	5.37	105	107	72.0-123			2.26	20
Chloromethane	5.00	5.84	6.31	117	126	51.0-138			7.74	20
2-Chlorotoluene	5.00	4.64	5.16	92.8	103	75.0-124			10.6	20
4-Chlorotoluene	5.00	4.63	5.04	92.6	101	75.0-124			8.48	20
1,2-Dibromo-3-Chloropropane	5.00	5.19	4.71	104	94.2	59.0-130			9.70	20
1,2-Dibromoethane	5.00	5.13	5.29	103	106	74.0-128			3.07	20
Dibromomethane	5.00	5.27	5.34	105	107	75.0-122			1.32	20
1,2-Dichlorobenzene	5.00	4.99	4.87	99.8	97.4	76.0-124			2.43	20
1,3-Dichlorobenzene	5.00	4.92	5.07	98.4	101	76.0-125			3.00	20
1,4-Dichlorobenzene	5.00	4.74	4.75	94.8	95.0	77.0-121			0.211	20
trans-1,4-Dichloro-2-butene	5.00	3.43	3.68	68.6	73.6	45.0-143			7.03	20
Dichlorodifluoromethane	5.00	5.88	6.14	118	123	43.0-156			4.33	20
1,1-Dichloroethane	5.00	5.01	5.11	100	102	70.0-127			1.98	20
1,2-Dichloroethane	5.00	5.34	5.41	107	108	65.0-131			1.30	20
1,1-Dichloroethene	5.00	4.58	4.87	91.6	97.4	65.0-131			6.14	20
cis-1,2-Dichloroethene	5.00	5.19	5.11	104	102	73.0-125			1.55	20
trans-1,2-Dichloroethene	5.00	5.20	5.03	104	101	71.0-125			3.32	20
1,2-Dichloropropane	5.00	4.95	4.95	99.0	99.0	74.0-125			0.000	20
1,1-Dichloropropene	5.00	4.98	5.30	99.6	106	73.0-125			6.23	20
1,3-Dichloropropane	5.00	4.82	5.00	96.4	100	80.0-125			3.67	20
cis-1,3-Dichloropropene	5.00	5.08	5.26	102	105	76.0-127			3.48	20
trans-1,3-Dichloropropene	5.00	4.90	5.08	98.0	102	73.0-127			3.61	20
2,2-Dichloropropane	5.00	4.72	4.64	94.4	92.8	59.0-135			1.71	20
Di-isopropyl ether	5.00	4.84	4.92	96.8	98.4	60.0-136			1.64	20
Ethylbenzene	5.00	4.94	5.17	98.8	103	74.0-126			4.55	20
Ethyl ether	5.00	5.12	4.97	102	99.4	64.0-137			2.97	20

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

(LCS) R3593536-1 11/15/20 12:06 • (LCSD) R3593536-2 11/15/20 12:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	5.30	5.61	106	112	57.0-150			5.68	20
Iodomethane	25.0	25.8	25.7	103	103	74.0-134			0.388	20
Isopropylbenzene	5.00	5.25	5.69	105	114	72.0-127			8.04	20
p-Isopropyltoluene	5.00	4.98	5.58	99.6	112	72.0-133			11.4	20
2-Butanone (MEK)	25.0	22.2	23.2	88.8	92.8	30.0-160			4.41	24
Methylene Chloride	5.00	4.89	5.03	97.8	101	68.0-123			2.82	20
4-Methyl-2-pentanone (MIBK)	25.0	22.9	24.0	91.6	96.0	56.0-143			4.69	20
Methyl tert-butyl ether	5.00	5.26	5.22	105	104	66.0-132			0.763	20
Naphthalene	5.00	5.06	5.29	101	106	59.0-130			4.44	20
n-Propylbenzene	5.00	4.51	4.49	90.2	89.8	74.0-126			0.444	20
Styrene	5.00	5.15	5.26	103	105	72.0-127			2.11	20
1,1,1,2-Tetrachloroethane	5.00	5.55	5.77	111	115	74.0-129			3.89	20
1,1,2,2-Tetrachloroethane	5.00	4.20	4.55	84.0	91.0	68.0-128			8.00	20
Tetrachloroethene	5.00	5.17	5.57	103	111	70.0-136			7.45	20
Tetrahydrofuran	5.00	3.40	3.40	68.0	68.0	37.0-146			0.000	24
Toluene	5.00	4.85	5.10	97.0	102	75.0-121			5.03	20
1,1,2-Trichlorotrifluoroethane	5.00	3.73	3.29	74.6	65.8	61.0-139			12.5	20
1,2,3-Trichlorobenzene	5.00	5.42	5.36	108	107	59.0-139			1.11	20
1,2,4-Trichlorobenzene	5.00	5.45	5.50	109	110	62.0-137			0.913	20
1,1,1-Trichloroethane	5.00	6.19	6.24	124	125	69.0-126			0.805	20
1,1,2-Trichloroethane	5.00	4.96	5.06	99.2	101	78.0-123			2.00	20
Trichloroethene	5.00	5.29	5.52	106	110	76.0-126			4.26	20
Trichlorofluoromethane	5.00	6.00	6.12	120	122	61.0-142			1.98	20
1,2,3-Trichloropropane	5.00	5.10	5.20	102	104	67.0-129			1.94	20
1,2,3-Trimethylbenzene	5.00	4.73	4.84	94.6	96.8	74.0-124			2.30	20
1,2,4-Trimethylbenzene	5.00	4.76	5.48	95.2	110	70.0-126			14.1	20
1,3,5-Trimethylbenzene	5.00	4.84	5.43	96.8	109	73.0-127			11.5	20
Xylenes, Total	15.0	14.8	15.6	98.7	104	72.0-127			5.26	20
Allyl chloride	25.0	22.9	23.3	91.6	93.2	70.0-131			1.73	20
(S) Toluene-d8				*102*	*105*	*75.0-131*				
(S) 4-Bromofluorobenzene				*109*	*117*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*106*	*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) R3593857-2 11/17/20 02:17

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloroethane	U		0.0432	0.200
cis-1,2-Dichloroethene	U		0.0276	0.100
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*106*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.2*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*88.9*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3593857-1 11/17/20 01:39

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloroethane	5.00	4.46	89.2	61.0-134	
cis-1,2-Dichloroethene	5.00	4.97	99.4	73.0-125	
Vinyl chloride	5.00	4.44	88.8	63.0-134	
(S) Toluene-d8			*104*	*75.0-131*	
(S) 4-Bromofluorobenzene			*98.3*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*90.4*	*70.0-130*	

Method Blank (MB)

(MB) R3594547-2 11/18/20 13:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*106*			*75.0-131*
(S) 4-Bromofluorobenzene	*98.3*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3594547-1 11/18/20 12:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Vinyl chloride	5.00	4.99	99.8	63.0-134	
(S) Toluene-d8			*104*	*75.0-131*	
(S) 4-Bromofluorobenzene			*97.6*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*113*	*70.0-130*	

Method Blank (MB)

(MB) R3594548-2 11/18/20 13:09

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

Method Blank (MB)

(MB) R3594548-2 11/18/20 13:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	0.558	J	0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*106*			*75.0-131*
(S) 4-Bromofluorobenzene	*98.3*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3594548-1 11/18/20 12:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	29.5	118	10.0-160	
Acrylonitrile	25.0	34.9	140	45.0-153	
Benzene	5.00	4.88	97.6	70.0-123	
Bromobenzene	5.00	5.26	105	73.0-121	
Bromodichloromethane	5.00	5.52	110	73.0-121	
Bromoform	5.00	5.85	117	64.0-132	
Bromomethane	5.00	6.69	134	56.0-147	
n-Butylbenzene	5.00	5.09	102	68.0-135	
sec-Butylbenzene	5.00	5.41	108	74.0-130	
tert-Butylbenzene	5.00	5.30	106	75.0-127	
Carbon tetrachloride	5.00	6.09	122	66.0-128	
Chlorobenzene	5.00	5.25	105	76.0-128	
Chlorodibromomethane	5.00	5.26	105	74.0-127	
Chloroethane	5.00	7.43	149	61.0-134	J4
Chloroform	5.00	5.36	107	72.0-123	
Chloromethane	5.00	5.20	104	51.0-138	
2-Chlorotoluene	5.00	5.54	111	75.0-124	
4-Chlorotoluene	5.00	5.28	106	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	5.43	109	59.0-130	
1,2-Dibromoethane	5.00	5.09	102	74.0-128	
Dibromomethane	5.00	5.01	100	75.0-122	
1,2-Dichlorobenzene	5.00	5.23	105	76.0-124	
1,3-Dichlorobenzene	5.00	5.30	106	76.0-125	
1,4-Dichlorobenzene	5.00	5.05	101	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	5.56	111	45.0-143	
Dichlorodifluoromethane	5.00	6.35	127	43.0-156	
1,1-Dichloroethane	5.00	5.56	111	70.0-127	
1,2-Dichloroethane	5.00	5.64	113	65.0-131	
1,1-Dichloroethene	5.00	6.03	121	65.0-131	
cis-1,2-Dichloroethene	5.00	5.53	111	73.0-125	
trans-1,2-Dichloroethene	5.00	5.04	101	71.0-125	
1,2-Dichloropropane	5.00	5.48	110	74.0-125	
1,1-Dichloropropene	5.00	5.01	100	73.0-125	
1,3-Dichloropropane	5.00	5.15	103	80.0-125	
cis-1,3-Dichloropropene	5.00	5.40	108	76.0-127	
trans-1,3-Dichloropropene	5.00	5.61	112	73.0-127	
2,2-Dichloropropane	5.00	6.06	121	59.0-135	
Di-isopropyl ether	5.00	6.01	120	60.0-136	
Ethylbenzene	5.00	5.32	106	74.0-126	
Ethyl ether	5.00	5.50	110	64.0-137	

Laboratory Control Sample (LCS)

(LCS) R3594548-1 11/18/20 12:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexachloro-1,3-butadiene	5.00	6.33	127	57.0-150	
Iodomethane	25.0	29.1	116	74.0-134	
Isopropylbenzene	5.00	5.41	108	72.0-127	
p-Isopropyltoluene	5.00	5.18	104	72.0-133	
2-Butanone (MEK)	25.0	34.2	137	30.0-160	
Methylene Chloride	5.00	4.88	97.6	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	30.4	122	56.0-143	
Methyl tert-butyl ether	5.00	5.61	112	66.0-132	
Naphthalene	5.00	4.64	92.8	59.0-130	
n-Propylbenzene	5.00	5.24	105	74.0-126	
Styrene	5.00	4.93	98.6	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	5.57	111	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	4.83	96.6	68.0-128	
Tetrachloroethene	5.00	6.06	121	70.0-136	
Tetrahydrofuran	5.00	6.83	137	37.0-146	
Toluene	5.00	4.94	98.8	75.0-121	
1,1,2-Trichlorotrifluoroethane	5.00	5.16	103	61.0-139	
1,2,3-Trichlorobenzene	5.00	5.46	109	59.0-139	
1,2,4-Trichlorobenzene	5.00	5.55	111	62.0-137	
1,1,1-Trichloroethane	5.00	5.56	111	69.0-126	
1,1,2-Trichloroethane	5.00	5.03	101	78.0-123	
Trichloroethene	5.00	5.30	106	76.0-126	
Trichlorofluoromethane	5.00	6.66	133	61.0-142	
1,2,3-Trichloropropane	5.00	5.30	106	67.0-129	
1,2,3-Trimethylbenzene	5.00	4.85	97.0	74.0-124	
1,2,4-Trimethylbenzene	5.00	5.08	102	70.0-126	
1,3,5-Trimethylbenzene	5.00	5.30	106	73.0-127	
Vinyl chloride	5.00	4.99	99.8	63.0-134	
Xylenes, Total	15.0	15.4	103	72.0-127	
Allyl chloride	25.0	26.0	104	70.0-131	
(S) Toluene-d8			*104*	*75.0-131*	
(S) 4-Bromofluorobenzene			*97.6*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*113*	*70.0-130*	

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

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C4	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Data is likely to show a low bias concerning the result.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.

ACCREDITATIONS & LOCATIONS

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	LAO00356
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

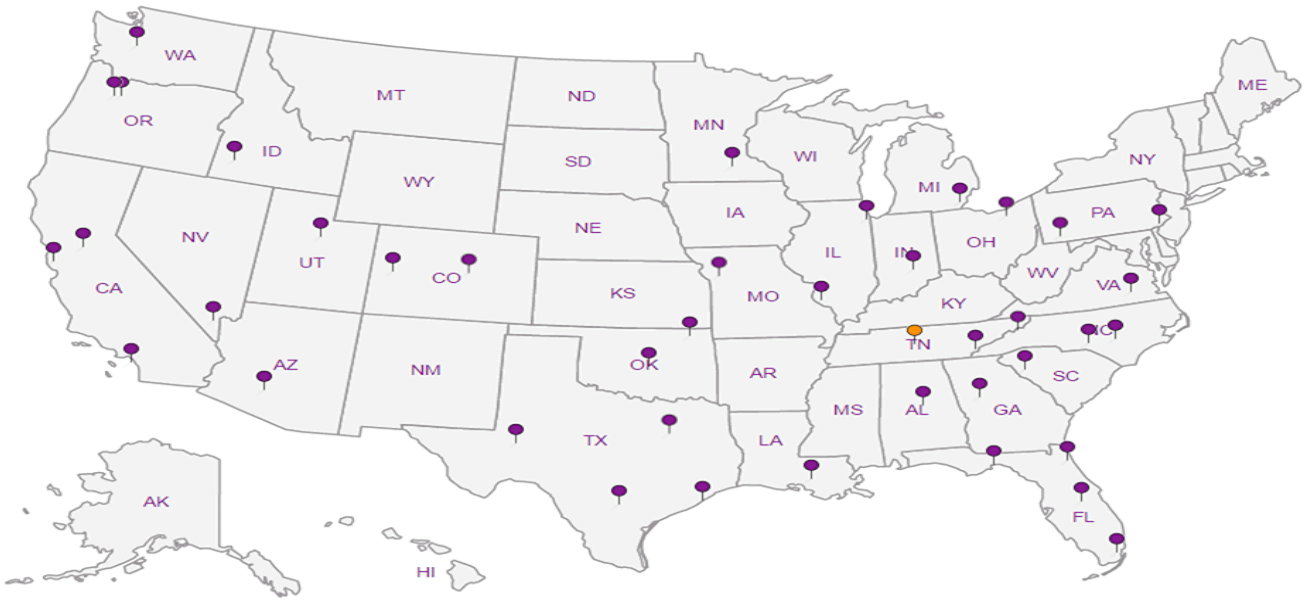
Third Party Federal Accreditations

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.



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 # 1413.001.02.501E

Lab Project # PESENVSWA-ALP

Collected by (print): Sean Kounovsky

Site/Facility ID # American Linen

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Chain of Custody Page 1 of 2

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 # 128396

G168

Acctnum: PESENVSWA
Template: T176996
Prelogin: P807311
PM: 546 - Jared Starkey
PB:
Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK by 2320 125mlHDPE-NoPres	FEG,MNG 250mlHDPE-HNO3	NO3, CL, SO4 9056 125mlHDPE-NoPres	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	SULFATE 125mlHDPE-NoPres	TOC 250mlHDPE-HCl	V8260ULLC 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-940-110420	Grab	GW	~~15~~ 17.4	11/4/20	0815	8		X			X	X	X	X		01
MW-181-110420		GW	17.4		0910	8		X			X	X	X	X		02
MW-183-110420		GW	46		0930	8		X			X	X	X	X		03
MW-311-110420		GW	67.2		0935	3								X		04
MW-182-110420		GW	31.4		1058	8		X			X	X	X	X		05
MW-184-110420		GW	61.5		1100	8		X			X	X	X	X		06
MW-108-110420		GW	45		1125	8		X			X	X	X	X	no dash	07
MW-188-110420		GW	61		1230	3								X		A
MW-314-110420		GW	72.8		1303	3								X		09
MW-186-110420	↓	GW	31.5	↓	1320	3								X		10

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 9050 0887 6806

Sample Receipt Checklist

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
	11/5/2020	1500			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
				9.7-0=9.7 CR 7	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK
				11/9/20 9:15	

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 # 1413.001.02.501E

Lab Project # PESENVSWA-ALP

Collected by (print): Sean Kounovsky

Site/Facility ID # American Linen

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK by 2320 125mlHDPE-NoPres	FEG,MNG 250mlHDPE-HNO3	NO3, CL, SO4 9056 125mlHDPE-NoPres	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	SULFATE 125mlHDPE-NoPres	TOC 250mlHDPE-HCl	V8260ULLC 40mlAmb-HCl			Remarks	Sample # (lab only)
								2					2					
MW-187-110420	Grab	GW	49.5	11/4/20	1330	3								X				11
MW-185-110420	↓	GW	N/A	↓	1342	3								X				12
MW110-110420	↓	GW	40	↓	1405	8		X			X	X	X	X				13
FMW-142-110420	↓	GW	40	↓	1600	3								X				14
TB-110520	—	GW	—	11/5/20	—	1								X				15
		GW																
		GW																
		GW																
		GW																
		GW																

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

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 # 129490

Table #

Acctnum: PESENVSWA

Template: T176996

Prelogin: P807311

PM: 546 - Jared Starkey

PB:

Shipped Via:

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
	11/5/2020	1500			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
				9.7-0=9.7 AZ CK 77	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK
				11/9/20 9:15	

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

November 30, 2020

Revised Report

PES Environmental, Inc.- WA

Sample Delivery Group:	L1284447
Samples Received:	11/11/2020
Project Number:	1413.001.02.501E
Description:	American Linen
Site:	1413.001.02.501E
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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MW-329-110920 L1284447-01 GW

Collected by: HRC/BLH | Collected date/time: 11/09/20 09:30 | Received date/time: 11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578255	1	11/18/20 16:55	11/18/20 16:55	JHH	Mt. Juliet, TN

MW126-110920 L1284447-02 GW

Collected by: HRC/BLH | Collected date/time: 11/09/20 09:30 | Received date/time: 11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1578247	1	11/19/20 05:34	11/19/20 05:34	LRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1579481	1	11/20/20 04:22	11/20/20 04:22	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1577659	1	11/17/20 19:58	11/17/20 19:58	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1577444	1	11/17/20 02:34	11/18/20 11:34	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1577557	1	11/18/20 10:54	11/18/20 10:54	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578255	1	11/18/20 17:14	11/18/20 17:14	JHH	Mt. Juliet, TN

MW128-110920 L1284447-03 GW

Collected by: HRC/BLH | Collected date/time: 11/09/20 10:55 | Received date/time: 11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578255	1	11/18/20 17:34	11/18/20 17:34	JHH	Mt. Juliet, TN

MW-327-110920 L1284447-04 GW

Collected by: HRC/BLH | Collected date/time: 11/09/20 11:40 | Received date/time: 11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578255	1	11/18/20 17:53	11/18/20 17:53	JHH	Mt. Juliet, TN

MW-328-110920 L1284447-05 GW

Collected by: HRC/BLH | Collected date/time: 11/09/20 13:05 | Received date/time: 11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578255	1	11/18/20 18:12	11/18/20 18:12	JHH	Mt. Juliet, TN

MW-154-110920 L1284447-06 GW

Collected by: HRC/BLH | Collected date/time: 11/09/20 13:55 | Received date/time: 11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1578247	1	11/19/20 05:49	11/19/20 05:49	LRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1579481	1	11/20/20 04:38	11/20/20 04:38	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1577659	1	11/17/20 20:24	11/17/20 20:24	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1577444	1	11/17/20 02:34	11/18/20 11:38	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1577557	1	11/18/20 10:57	11/18/20 10:57	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578255	1	11/18/20 18:31	11/18/20 18:31	JHH	Mt. Juliet, TN

MW-341-110920 L1284447-07 GW

Collected by: HRC/BLH | Collected date/time: 11/09/20 14:03 | Received date/time: 11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578255	1	11/18/20 18:50	11/18/20 18:50	JHH	Mt. Juliet, TN

MW-339-110920 L1284447-08 GW

Collected by: HRC/BLH | Collected date/time: 11/09/20 14:48 | Received date/time: 11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578255	1	11/18/20 19:09	11/18/20 19:09	JHH	Mt. Juliet, TN

MW-153-110920 L1284447-09 GW

Collected by: HRC/BLH | Collected date/time: 11/09/20 15:25 | Received date/time: 11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1578247	1	11/19/20 05:56	11/19/20 05:56	LRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1579481	1	11/20/20 05:12	11/20/20 05:12	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1577659	1	11/17/20 20:37	11/17/20 20:37	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1577444	1	11/17/20 02:34	11/18/20 11:41	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1577557	1	11/18/20 11:00	11/18/20 11:00	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578255	1	11/18/20 19:28	11/18/20 19:28	JHH	Mt. Juliet, TN

MW-340-110920 L1284447-10 GW

Collected by: HRC/BLH | Collected date/time: 11/09/20 15:38 | Received date/time: 11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578255	1	11/18/20 19:47	11/18/20 19:47	JHH	Mt. Juliet, TN

MW-147-111020 L1284447-11 GW

Collected by: HRC/BLH | Collected date/time: 11/10/20 09:50 | Received date/time: 11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1578247	1	11/19/20 06:03	11/19/20 06:03	LRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1579481	1	11/20/20 06:03	11/20/20 06:03	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1577659	1	11/17/20 20:49	11/17/20 20:49	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1577444	1	11/17/20 02:34	11/18/20 11:53	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1576631	1	11/15/20 10:54	11/15/20 10:54	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1577557	1	11/18/20 11:03	11/18/20 11:03	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1578521	10	11/18/20 15:32	11/18/20 15:32	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1579376	100	11/20/20 11:06	11/20/20 11:06	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1579872	100	11/21/20 09:28	11/21/20 09:28	ADM	Mt. Juliet, TN

MW-337-111020 L1284447-12 GW

Collected by: HRC/BLH | Collected date/time: 11/10/20 10:00 | Received date/time: 11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578255	1	11/18/20 20:05	11/18/20 20:05	JHH	Mt. Juliet, TN

MW-338-111020 L1284447-13 GW

Collected by: HRC/BLH | Collected date/time: 11/10/20 10:45 | Received date/time: 11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578897	1	11/19/20 10:02	11/19/20 10:02	ADM	Mt. Juliet, TN

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

MW-942-111020 L1284447-14 GW

Collected by: HRC/BLH | Collected date/time: 11/10/20 10:45 | Received date/time: 11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1578247	1	11/19/20 06:11	11/19/20 06:11	LRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1579481	1	11/20/20 06:20	11/20/20 06:20	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1577659	1	11/17/20 21:00	11/17/20 21:00	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1577444	1	11/17/20 02:34	11/18/20 11:56	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1577557	1	11/18/20 11:09	11/18/20 11:09	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578897	1	11/19/20 10:22	11/19/20 10:22	ADM	Mt. Juliet, TN

MW-146-111020 L1284447-15 GW

Collected by: HRC/BLH | Collected date/time: 11/10/20 11:30 | Received date/time: 11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1578247	1	11/19/20 06:18	11/19/20 06:18	LRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1579481	1	11/20/20 07:11	11/20/20 07:11	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1577659	1	11/17/20 21:16	11/17/20 21:16	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1577444	1	11/17/20 02:34	11/18/20 11:59	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1576631	1	11/15/20 11:18	11/15/20 11:18	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1577557	1	11/18/20 11:14	11/18/20 11:14	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1578521	10	11/18/20 15:35	11/18/20 15:35	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1579425	50	11/20/20 10:45	11/20/20 10:45	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1579872	50	11/21/20 09:47	11/21/20 09:47	ADM	Mt. Juliet, TN

MW-317-111020 L1284447-16 GW

Collected by: HRC/BLH | Collected date/time: 11/10/20 12:50 | Received date/time: 11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578897	1	11/19/20 10:43	11/19/20 10:43	ADM	Mt. Juliet, TN

MW106-111020 L1284447-17 GW

Collected by: HRC/BLH | Collected date/time: 11/10/20 14:00 | Received date/time: 11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1578247	1	11/19/20 06:25	11/19/20 06:25	LRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1579481	1	11/20/20 07:27	11/20/20 07:27	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1577659	1	11/17/20 21:27	11/17/20 21:27	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1577444	1	11/17/20 02:34	11/18/20 12:03	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1577557	1	11/18/20 11:16	11/18/20 11:16	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578897	1	11/19/20 11:03	11/19/20 11:03	ADM	Mt. Juliet, TN

GEI-MW-1-111020 L1284447-18 GW

Collected by: HRC/BLH | Collected date/time: 11/10/20 14:35 | Received date/time: 11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578897	1	11/19/20 11:23	11/19/20 11:23	ADM	Mt. Juliet, TN

TB-111020 L1284447-19 GW

Collected by: HRC/BLH | Collected date/time: 11/10/20 15:00 | Received date/time: 11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1577448	1	11/17/20 07:49	11/17/20 07:49	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578897	1	11/19/20 09:21	11/19/20 09:21	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

Report Revision History

Level II Report - Version 1: 11/23/20 09:16

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2020 16:55	WG1578255
Acrylonitrile	U		0.0760	0.500	1	11/18/2020 16:55	WG1578255
Benzene	0.862		0.0160	0.0400	1	11/18/2020 16:55	WG1578255
Bromobenzene	U		0.0420	0.500	1	11/18/2020 16:55	WG1578255
Bromodichloromethane	U		0.0315	0.100	1	11/18/2020 16:55	WG1578255
Bromoform	U		0.239	1.00	1	11/18/2020 16:55	WG1578255
Bromomethane	U		0.148	0.500	1	11/18/2020 16:55	WG1578255
n-Butylbenzene	U		0.153	0.500	1	11/18/2020 16:55	WG1578255
sec-Butylbenzene	U		0.101	0.500	1	11/18/2020 16:55	WG1578255
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2020 16:55	WG1578255
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2020 16:55	WG1578255
Chlorobenzene	U		0.0229	0.100	1	11/18/2020 16:55	WG1578255
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2020 16:55	WG1578255
Chloroethane	U	J4	0.0432	0.200	1	11/18/2020 16:55	WG1578255
Chloroform	U		0.0166	0.100	1	11/18/2020 16:55	WG1578255
Chloromethane	U		0.0556	0.500	1	11/18/2020 16:55	WG1578255
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2020 16:55	WG1578255
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2020 16:55	WG1578255
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2020 16:55	WG1578255
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2020 16:55	WG1578255
Dibromomethane	U		0.0400	0.200	1	11/18/2020 16:55	WG1578255
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2020 16:55	WG1578255
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2020 16:55	WG1578255
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2020 16:55	WG1578255
Dichlorodifluoromethane	U		0.0327	0.100	1	11/18/2020 16:55	WG1578255
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2020 16:55	WG1578255
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2020 16:55	WG1578255
1,1-Dichloroethene	0.0440	J	0.0200	0.100	1	11/18/2020 16:55	WG1578255
cis-1,2-Dichloroethene	21.0		0.0276	0.100	1	11/18/2020 16:55	WG1578255
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2020 16:55	WG1578255
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2020 16:55	WG1578255
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2020 16:55	WG1578255
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2020 16:55	WG1578255
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2020 16:55	WG1578255
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2020 16:55	WG1578255
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2020 16:55	WG1578255
Di-isopropyl ether	0.174		0.0140	0.0400	1	11/18/2020 16:55	WG1578255
Ethylbenzene	U		0.0212	0.100	1	11/18/2020 16:55	WG1578255
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/18/2020 16:55	WG1578255
Isopropylbenzene	U		0.0345	0.100	1	11/18/2020 16:55	WG1578255
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2020 16:55	WG1578255
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2020 16:55	WG1578255
Methylene Chloride	U		0.265	1.00	1	11/18/2020 16:55	WG1578255
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2020 16:55	WG1578255
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2020 16:55	WG1578255
Naphthalene	U		0.124	0.500	1	11/18/2020 16:55	WG1578255
n-Propylbenzene	U		0.0472	0.200	1	11/18/2020 16:55	WG1578255
Styrene	U		0.109	0.500	1	11/18/2020 16:55	WG1578255
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2020 16:55	WG1578255
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2020 16:55	WG1578255
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2020 16:55	WG1578255
Tetrachloroethene	U		0.0280	0.100	1	11/18/2020 16:55	WG1578255
Toluene	0.106	J	0.0500	0.200	1	11/18/2020 16:55	WG1578255
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/18/2020 16:55	WG1578255
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2020 16:55	WG1578255
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2020 16:55	WG1578255

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2020 16:55	WG1578255
Trichloroethene	U		0.0160	0.0400	1	11/18/2020 16:55	WG1578255
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2020 16:55	WG1578255
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2020 16:55	WG1578255
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2020 16:55	WG1578255
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2020 16:55	WG1578255
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2020 16:55	WG1578255
Vinyl chloride	23.0		0.0273	0.100	1	11/18/2020 16:55	WG1578255
Xylenes, Total	U		0.191	0.260	1	11/18/2020 16:55	WG1578255
Ethyl Ether	0.139		0.0170	0.100	1	11/18/2020 16:55	WG1578255
Tetrahydrofuran	U		0.0900	0.500	1	11/18/2020 16:55	WG1578255
Iodomethane	U		0.242	0.500	1	11/18/2020 16:55	WG1578255
Allyl chloride	U		0.580	1.00	1	11/18/2020 16:55	WG1578255
Trans-1,4-Dichloro-2-butene	0.116	J	0.0560	0.200	1	11/18/2020 16:55	WG1578255
(S) Toluene-d8	*109*			*75.0-131*		*11/18/2020 16:55*	WG1578255
(S) 4-Bromofluorobenzene	*93.8*			*67.0-138*		*11/18/2020 16:55*	WG1578255
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*11/18/2020 16:55*	WG1578255

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	197000		8450	20000	1	11/19/2020 05:34	WG1578247

Sample Narrative:
L1284447-02 WG1578247: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	4850	J	594	5000	1	11/20/2020 04:22	WG1579481

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)	3420		102	1000	1	11/17/2020 19:58	WG1577659

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	117		28.1	100	1	11/18/2020 11:34	WG1577444
Manganese	254		0.704	5.00	1	11/18/2020 11:34	WG1577444

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	213		0.287	0.678	1	11/18/2020 10:54	WG1577557
Ethane	U		0.296	1.29	1	11/18/2020 10:54	WG1577557
Ethene	U		0.422	1.27	1	11/18/2020 10:54	WG1577557

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2020 17:14	WG1578255
Acrylonitrile	U		0.0760	0.500	1	11/18/2020 17:14	WG1578255
Benzene	0.0210	J	0.0160	0.0400	1	11/18/2020 17:14	WG1578255
Bromobenzene	U		0.0420	0.500	1	11/18/2020 17:14	WG1578255
Bromodichloromethane	U		0.0315	0.100	1	11/18/2020 17:14	WG1578255
Bromoform	U		0.239	1.00	1	11/18/2020 17:14	WG1578255
Bromomethane	U		0.148	0.500	1	11/18/2020 17:14	WG1578255
n-Butylbenzene	U		0.153	0.500	1	11/18/2020 17:14	WG1578255
sec-Butylbenzene	U		0.101	0.500	1	11/18/2020 17:14	WG1578255
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2020 17:14	WG1578255
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2020 17:14	WG1578255
Chlorobenzene	U		0.0229	0.100	1	11/18/2020 17:14	WG1578255
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2020 17:14	WG1578255
Chloroethane	U	J4	0.0432	0.200	1	11/18/2020 17:14	WG1578255
Chloroform	U		0.0166	0.100	1	11/18/2020 17:14	WG1578255
Chloromethane	U		0.0556	0.500	1	11/18/2020 17:14	WG1578255
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2020 17:14	WG1578255
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2020 17:14	WG1578255
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2020 17:14	WG1578255
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2020 17:14	WG1578255
Dibromomethane	U		0.0400	0.200	1	11/18/2020 17:14	WG1578255
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2020 17:14	WG1578255

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2020 17:14	WG1578255
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2020 17:14	WG1578255
Dichlorodifluoromethane	U		0.0327	0.100	1	11/18/2020 17:14	WG1578255
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2020 17:14	WG1578255
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2020 17:14	WG1578255
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2020 17:14	WG1578255
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/18/2020 17:14	WG1578255
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2020 17:14	WG1578255
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2020 17:14	WG1578255
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2020 17:14	WG1578255
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2020 17:14	WG1578255
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2020 17:14	WG1578255
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2020 17:14	WG1578255
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2020 17:14	WG1578255
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2020 17:14	WG1578255
Ethylbenzene	U		0.0212	0.100	1	11/18/2020 17:14	WG1578255
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/18/2020 17:14	WG1578255
Isopropylbenzene	U		0.0345	0.100	1	11/18/2020 17:14	WG1578255
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2020 17:14	WG1578255
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2020 17:14	WG1578255
Methylene Chloride	U		0.265	1.00	1	11/18/2020 17:14	WG1578255
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2020 17:14	WG1578255
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2020 17:14	WG1578255
Naphthalene	U		0.124	0.500	1	11/18/2020 17:14	WG1578255
n-Propylbenzene	U		0.0472	0.200	1	11/18/2020 17:14	WG1578255
Styrene	U		0.109	0.500	1	11/18/2020 17:14	WG1578255
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2020 17:14	WG1578255
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2020 17:14	WG1578255
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2020 17:14	WG1578255
Tetrachloroethene	U		0.0280	0.100	1	11/18/2020 17:14	WG1578255
Toluene	U		0.0500	0.200	1	11/18/2020 17:14	WG1578255
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/18/2020 17:14	WG1578255
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2020 17:14	WG1578255
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2020 17:14	WG1578255
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2020 17:14	WG1578255
Trichloroethene	U		0.0160	0.0400	1	11/18/2020 17:14	WG1578255
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2020 17:14	WG1578255
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2020 17:14	WG1578255
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2020 17:14	WG1578255
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2020 17:14	WG1578255
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2020 17:14	WG1578255
Vinyl chloride	U		0.0273	0.100	1	11/18/2020 17:14	WG1578255
Xylenes, Total	U		0.191	0.260	1	11/18/2020 17:14	WG1578255
Ethyl Ether	U		0.0170	0.100	1	11/18/2020 17:14	WG1578255
Tetrahydrofuran	U		0.0900	0.500	1	11/18/2020 17:14	WG1578255
Iodomethane	U		0.242	0.500	1	11/18/2020 17:14	WG1578255
Allyl chloride	U		0.580	1.00	1	11/18/2020 17:14	WG1578255
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/18/2020 17:14	WG1578255
(S) Toluene-d8	*103*			*75.0-131*		*11/18/2020 17:14*	WG1578255
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*11/18/2020 17:14*	WG1578255
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*11/18/2020 17:14*	WG1578255

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2020 17:34	WG1578255
Acrylonitrile	U		0.0760	0.500	1	11/18/2020 17:34	WG1578255
Benzene	17.0		0.0160	0.0400	1	11/18/2020 17:34	WG1578255
Bromobenzene	U		0.0420	0.500	1	11/18/2020 17:34	WG1578255
Bromodichloromethane	U		0.0315	0.100	1	11/18/2020 17:34	WG1578255
Bromoform	U		0.239	1.00	1	11/18/2020 17:34	WG1578255
Bromomethane	U		0.148	0.500	1	11/18/2020 17:34	WG1578255
n-Butylbenzene	U		0.153	0.500	1	11/18/2020 17:34	WG1578255
sec-Butylbenzene	U		0.101	0.500	1	11/18/2020 17:34	WG1578255
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2020 17:34	WG1578255
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2020 17:34	WG1578255
Chlorobenzene	U		0.0229	0.100	1	11/18/2020 17:34	WG1578255
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2020 17:34	WG1578255
Chloroethane	U	J4	0.0432	0.200	1	11/18/2020 17:34	WG1578255
Chloroform	U		0.0166	0.100	1	11/18/2020 17:34	WG1578255
Chloromethane	U		0.0556	0.500	1	11/18/2020 17:34	WG1578255
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2020 17:34	WG1578255
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2020 17:34	WG1578255
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2020 17:34	WG1578255
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2020 17:34	WG1578255
Dibromomethane	U		0.0400	0.200	1	11/18/2020 17:34	WG1578255
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2020 17:34	WG1578255
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2020 17:34	WG1578255
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2020 17:34	WG1578255
Dichlorodifluoromethane	U		0.0327	0.100	1	11/18/2020 17:34	WG1578255
1,1-Dichloroethane	0.0570	J	0.0230	0.100	1	11/18/2020 17:34	WG1578255
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2020 17:34	WG1578255
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2020 17:34	WG1578255
cis-1,2-Dichloroethene	0.671		0.0276	0.100	1	11/18/2020 17:34	WG1578255
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2020 17:34	WG1578255
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2020 17:34	WG1578255
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2020 17:34	WG1578255
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2020 17:34	WG1578255
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2020 17:34	WG1578255
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2020 17:34	WG1578255
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2020 17:34	WG1578255
Di-isopropyl ether	0.127		0.0140	0.0400	1	11/18/2020 17:34	WG1578255
Ethylbenzene	U		0.0212	0.100	1	11/18/2020 17:34	WG1578255
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/18/2020 17:34	WG1578255
Isopropylbenzene	U		0.0345	0.100	1	11/18/2020 17:34	WG1578255
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2020 17:34	WG1578255
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2020 17:34	WG1578255
Methylene Chloride	U		0.265	1.00	1	11/18/2020 17:34	WG1578255
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2020 17:34	WG1578255
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2020 17:34	WG1578255
Naphthalene	U		0.124	0.500	1	11/18/2020 17:34	WG1578255
n-Propylbenzene	U		0.0472	0.200	1	11/18/2020 17:34	WG1578255
Styrene	U		0.109	0.500	1	11/18/2020 17:34	WG1578255
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2020 17:34	WG1578255
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2020 17:34	WG1578255
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2020 17:34	WG1578255
Tetrachloroethene	U		0.0280	0.100	1	11/18/2020 17:34	WG1578255
Toluene	0.132	J	0.0500	0.200	1	11/18/2020 17:34	WG1578255
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/18/2020 17:34	WG1578255
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2020 17:34	WG1578255
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2020 17:34	WG1578255

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2020 17:34	WG1578255
Trichloroethene	U		0.0160	0.0400	1	11/18/2020 17:34	WG1578255
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2020 17:34	WG1578255
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2020 17:34	WG1578255
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2020 17:34	WG1578255
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2020 17:34	WG1578255
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2020 17:34	WG1578255
Vinyl chloride	56.1		0.0273	0.100	1	11/18/2020 17:34	WG1578255
Xylenes, Total	U		0.191	0.260	1	11/18/2020 17:34	WG1578255
Ethyl Ether	0.0810	J	0.0170	0.100	1	11/18/2020 17:34	WG1578255
Tetrahydrofuran	U		0.0900	0.500	1	11/18/2020 17:34	WG1578255
Iodomethane	U		0.242	0.500	1	11/18/2020 17:34	WG1578255
Allyl chloride	U		0.580	1.00	1	11/18/2020 17:34	WG1578255
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/18/2020 17:34	WG1578255
(S) Toluene-d8	*105*			*75.0-131*		*11/18/2020 17:34*	WG1578255
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*11/18/2020 17:34*	WG1578255
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*11/18/2020 17:34*	WG1578255

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2020 17:53	WG1578255
Acrylonitrile	U		0.0760	0.500	1	11/18/2020 17:53	WG1578255
Benzene	0.0200	J	0.0160	0.0400	1	11/18/2020 17:53	WG1578255
Bromobenzene	U		0.0420	0.500	1	11/18/2020 17:53	WG1578255
Bromodichloromethane	U		0.0315	0.100	1	11/18/2020 17:53	WG1578255
Bromoform	U		0.239	1.00	1	11/18/2020 17:53	WG1578255
Bromomethane	U		0.148	0.500	1	11/18/2020 17:53	WG1578255
n-Butylbenzene	U		0.153	0.500	1	11/18/2020 17:53	WG1578255
sec-Butylbenzene	U		0.101	0.500	1	11/18/2020 17:53	WG1578255
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2020 17:53	WG1578255
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2020 17:53	WG1578255
Chlorobenzene	U		0.0229	0.100	1	11/18/2020 17:53	WG1578255
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2020 17:53	WG1578255
Chloroethane	U	J4	0.0432	0.200	1	11/18/2020 17:53	WG1578255
Chloroform	U		0.0166	0.100	1	11/18/2020 17:53	WG1578255
Chloromethane	U		0.0556	0.500	1	11/18/2020 17:53	WG1578255
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2020 17:53	WG1578255
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2020 17:53	WG1578255
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2020 17:53	WG1578255
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2020 17:53	WG1578255
Dibromomethane	U		0.0400	0.200	1	11/18/2020 17:53	WG1578255
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2020 17:53	WG1578255
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2020 17:53	WG1578255
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2020 17:53	WG1578255
Dichlorodifluoromethane	U		0.0327	0.100	1	11/18/2020 17:53	WG1578255
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2020 17:53	WG1578255
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2020 17:53	WG1578255
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2020 17:53	WG1578255
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/18/2020 17:53	WG1578255
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2020 17:53	WG1578255
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2020 17:53	WG1578255
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2020 17:53	WG1578255
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2020 17:53	WG1578255
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2020 17:53	WG1578255
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2020 17:53	WG1578255
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2020 17:53	WG1578255
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2020 17:53	WG1578255
Ethylbenzene	0.0340	J	0.0212	0.100	1	11/18/2020 17:53	WG1578255
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/18/2020 17:53	WG1578255
Isopropylbenzene	U		0.0345	0.100	1	11/18/2020 17:53	WG1578255
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2020 17:53	WG1578255
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2020 17:53	WG1578255
Methylene Chloride	U		0.265	1.00	1	11/18/2020 17:53	WG1578255
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2020 17:53	WG1578255
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2020 17:53	WG1578255
Naphthalene	U		0.124	0.500	1	11/18/2020 17:53	WG1578255
n-Propylbenzene	U		0.0472	0.200	1	11/18/2020 17:53	WG1578255
Styrene	U		0.109	0.500	1	11/18/2020 17:53	WG1578255
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2020 17:53	WG1578255
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2020 17:53	WG1578255
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2020 17:53	WG1578255
Tetrachloroethene	U		0.0280	0.100	1	11/18/2020 17:53	WG1578255
Toluene	0.173	J	0.0500	0.200	1	11/18/2020 17:53	WG1578255
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/18/2020 17:53	WG1578255
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2020 17:53	WG1578255
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2020 17:53	WG1578255

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2020 17:53	WG1578255
Trichloroethene	U		0.0160	0.0400	1	11/18/2020 17:53	WG1578255
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2020 17:53	WG1578255
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2020 17:53	WG1578255
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2020 17:53	WG1578255
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2020 17:53	WG1578255
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2020 17:53	WG1578255
Vinyl chloride	U		0.0273	0.100	1	11/18/2020 17:53	WG1578255
Xylenes, Total	0.219	J	0.191	0.260	1	11/18/2020 17:53	WG1578255
Ethyl Ether	U		0.0170	0.100	1	11/18/2020 17:53	WG1578255
Tetrahydrofuran	U		0.0900	0.500	1	11/18/2020 17:53	WG1578255
Iodomethane	U		0.242	0.500	1	11/18/2020 17:53	WG1578255
Allyl chloride	U		0.580	1.00	1	11/18/2020 17:53	WG1578255
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/18/2020 17:53	WG1578255
(S) Toluene-d8	*104*			*75.0-131*		*11/18/2020 17:53*	WG1578255
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/18/2020 17:53*	WG1578255
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*11/18/2020 17:53*	WG1578255

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2020 18:12	WG1578255
Acrylonitrile	U		0.0760	0.500	1	11/18/2020 18:12	WG1578255
Benzene	0.630		0.0160	0.0400	1	11/18/2020 18:12	WG1578255
Bromobenzene	U		0.0420	0.500	1	11/18/2020 18:12	WG1578255
Bromodichloromethane	U		0.0315	0.100	1	11/18/2020 18:12	WG1578255
Bromoform	U		0.239	1.00	1	11/18/2020 18:12	WG1578255
Bromomethane	U		0.148	0.500	1	11/18/2020 18:12	WG1578255
n-Butylbenzene	U		0.153	0.500	1	11/18/2020 18:12	WG1578255
sec-Butylbenzene	U		0.101	0.500	1	11/18/2020 18:12	WG1578255
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2020 18:12	WG1578255
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2020 18:12	WG1578255
Chlorobenzene	U		0.0229	0.100	1	11/18/2020 18:12	WG1578255
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2020 18:12	WG1578255
Chloroethane	U	J4	0.0432	0.200	1	11/18/2020 18:12	WG1578255
Chloroform	U		0.0166	0.100	1	11/18/2020 18:12	WG1578255
Chloromethane	U		0.0556	0.500	1	11/18/2020 18:12	WG1578255
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2020 18:12	WG1578255
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2020 18:12	WG1578255
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2020 18:12	WG1578255
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2020 18:12	WG1578255
Dibromomethane	U		0.0400	0.200	1	11/18/2020 18:12	WG1578255
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2020 18:12	WG1578255
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2020 18:12	WG1578255
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2020 18:12	WG1578255
Dichlorodifluoromethane	U		0.0327	0.100	1	11/18/2020 18:12	WG1578255
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2020 18:12	WG1578255
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2020 18:12	WG1578255
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2020 18:12	WG1578255
cis-1,2-Dichloroethene	0.607		0.0276	0.100	1	11/18/2020 18:12	WG1578255
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2020 18:12	WG1578255
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2020 18:12	WG1578255
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2020 18:12	WG1578255
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2020 18:12	WG1578255
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2020 18:12	WG1578255
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2020 18:12	WG1578255
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2020 18:12	WG1578255
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2020 18:12	WG1578255
Ethylbenzene	U		0.0212	0.100	1	11/18/2020 18:12	WG1578255
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/18/2020 18:12	WG1578255
Isopropylbenzene	U		0.0345	0.100	1	11/18/2020 18:12	WG1578255
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2020 18:12	WG1578255
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2020 18:12	WG1578255
Methylene Chloride	U		0.265	1.00	1	11/18/2020 18:12	WG1578255
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2020 18:12	WG1578255
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2020 18:12	WG1578255
Naphthalene	U		0.124	0.500	1	11/18/2020 18:12	WG1578255
n-Propylbenzene	U		0.0472	0.200	1	11/18/2020 18:12	WG1578255
Styrene	U		0.109	0.500	1	11/18/2020 18:12	WG1578255
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2020 18:12	WG1578255
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2020 18:12	WG1578255
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2020 18:12	WG1578255
Tetrachloroethene	U		0.0280	0.100	1	11/18/2020 18:12	WG1578255
Toluene	U		0.0500	0.200	1	11/18/2020 18:12	WG1578255
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/18/2020 18:12	WG1578255
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2020 18:12	WG1578255
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2020 18:12	WG1578255

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2020 18:12	WG1578255
Trichloroethene	U		0.0160	0.0400	1	11/18/2020 18:12	WG1578255
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2020 18:12	WG1578255
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2020 18:12	WG1578255
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2020 18:12	WG1578255
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2020 18:12	WG1578255
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2020 18:12	WG1578255
Vinyl chloride	7.99		0.0273	0.100	1	11/18/2020 18:12	WG1578255
Xylenes, Total	U		0.191	0.260	1	11/18/2020 18:12	WG1578255
Ethyl Ether	U		0.0170	0.100	1	11/18/2020 18:12	WG1578255
Tetrahydrofuran	U		0.0900	0.500	1	11/18/2020 18:12	WG1578255
Iodomethane	U		0.242	0.500	1	11/18/2020 18:12	WG1578255
Allyl chloride	U		0.580	1.00	1	11/18/2020 18:12	WG1578255
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/18/2020 18:12	WG1578255
(S) Toluene-d8	*105*			*75.0-131*		*11/18/2020 18:12*	WG1578255
(S) 4-Bromofluorobenzene	*98.2*			*67.0-138*		*11/18/2020 18:12*	WG1578255
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*11/18/2020 18:12*	WG1578255

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	152000		8450	20000	1	11/19/2020 05:49	WG1578247

Sample Narrative:
L1284447-06 WG1578247: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	75800		594	5000	1	11/20/2020 04:38	WG1579481

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1240	B	102	1000	1	11/17/2020 20:24	WG1577659

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	440		28.1	100	1	11/18/2020 11:38	WG1577444
Manganese	49.4		0.704	5.00	1	11/18/2020 11:38	WG1577444

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	11/18/2020 10:57	WG1577557
Ethane	U		0.296	1.29	1	11/18/2020 10:57	WG1577557
Ethene	U		0.422	1.27	1	11/18/2020 10:57	WG1577557

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2020 18:31	WG1578255
Acrylonitrile	U		0.0760	0.500	1	11/18/2020 18:31	WG1578255
Benzene	0.0230	J	0.0160	0.0400	1	11/18/2020 18:31	WG1578255
Bromobenzene	U		0.0420	0.500	1	11/18/2020 18:31	WG1578255
Bromodichloromethane	U		0.0315	0.100	1	11/18/2020 18:31	WG1578255
Bromoform	U		0.239	1.00	1	11/18/2020 18:31	WG1578255
Bromomethane	U		0.148	0.500	1	11/18/2020 18:31	WG1578255
n-Butylbenzene	U		0.153	0.500	1	11/18/2020 18:31	WG1578255
sec-Butylbenzene	U		0.101	0.500	1	11/18/2020 18:31	WG1578255
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2020 18:31	WG1578255
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2020 18:31	WG1578255
Chlorobenzene	U		0.0229	0.100	1	11/18/2020 18:31	WG1578255
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2020 18:31	WG1578255
Chloroethane	U	J4	0.0432	0.200	1	11/18/2020 18:31	WG1578255
Chloroform	0.117		0.0166	0.100	1	11/18/2020 18:31	WG1578255
Chloromethane	U		0.0556	0.500	1	11/18/2020 18:31	WG1578255
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2020 18:31	WG1578255
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2020 18:31	WG1578255
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2020 18:31	WG1578255
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2020 18:31	WG1578255
Dibromomethane	U		0.0400	0.200	1	11/18/2020 18:31	WG1578255
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2020 18:31	WG1578255

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2020 18:31	WG1578255
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2020 18:31	WG1578255
Dichlorodifluoromethane	U		0.0327	0.100	1	11/18/2020 18:31	WG1578255
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2020 18:31	WG1578255
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2020 18:31	WG1578255
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2020 18:31	WG1578255
cis-1,2-Dichloroethene	1.77		0.0276	0.100	1	11/18/2020 18:31	WG1578255
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2020 18:31	WG1578255
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2020 18:31	WG1578255
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2020 18:31	WG1578255
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2020 18:31	WG1578255
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2020 18:31	WG1578255
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2020 18:31	WG1578255
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2020 18:31	WG1578255
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2020 18:31	WG1578255
Ethylbenzene	U		0.0212	0.100	1	11/18/2020 18:31	WG1578255
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/18/2020 18:31	WG1578255
Isopropylbenzene	U		0.0345	0.100	1	11/18/2020 18:31	WG1578255
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2020 18:31	WG1578255
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2020 18:31	WG1578255
Methylene Chloride	U		0.265	1.00	1	11/18/2020 18:31	WG1578255
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2020 18:31	WG1578255
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2020 18:31	WG1578255
Naphthalene	U		0.124	0.500	1	11/18/2020 18:31	WG1578255
n-Propylbenzene	U		0.0472	0.200	1	11/18/2020 18:31	WG1578255
Styrene	U		0.109	0.500	1	11/18/2020 18:31	WG1578255
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2020 18:31	WG1578255
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2020 18:31	WG1578255
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2020 18:31	WG1578255
Tetrachloroethene	73.9		0.0280	0.100	1	11/18/2020 18:31	WG1578255
Toluene	0.317		0.0500	0.200	1	11/18/2020 18:31	WG1578255
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/18/2020 18:31	WG1578255
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2020 18:31	WG1578255
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2020 18:31	WG1578255
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2020 18:31	WG1578255
Trichloroethene	6.84		0.0160	0.0400	1	11/18/2020 18:31	WG1578255
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2020 18:31	WG1578255
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2020 18:31	WG1578255
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2020 18:31	WG1578255
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2020 18:31	WG1578255
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2020 18:31	WG1578255
Vinyl chloride	U		0.0273	0.100	1	11/18/2020 18:31	WG1578255
Xylenes, Total	U		0.191	0.260	1	11/18/2020 18:31	WG1578255
Ethyl Ether	U		0.0170	0.100	1	11/18/2020 18:31	WG1578255
Tetrahydrofuran	U		0.0900	0.500	1	11/18/2020 18:31	WG1578255
Iodomethane	U		0.242	0.500	1	11/18/2020 18:31	WG1578255
Allyl chloride	U		0.580	1.00	1	11/18/2020 18:31	WG1578255
Trans-1,4-Dichloro-2-butene	0.121	J	0.0560	0.200	1	11/18/2020 18:31	WG1578255
(S) Toluene-d8	*107*			*75.0-131*		*11/18/2020 18:31*	WG1578255
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*11/18/2020 18:31*	WG1578255
(S) 1,2-Dichloroethane-d4	*121*			*70.0-130*		*11/18/2020 18:31*	WG1578255

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.51		0.548	1.00	1	11/18/2020 18:50	WG1578255
Acrylonitrile	U		0.0760	0.500	1	11/18/2020 18:50	WG1578255
Benzene	9.87		0.0160	0.0400	1	11/18/2020 18:50	WG1578255
Bromobenzene	U		0.0420	0.500	1	11/18/2020 18:50	WG1578255
Bromodichloromethane	U		0.0315	0.100	1	11/18/2020 18:50	WG1578255
Bromoform	U		0.239	1.00	1	11/18/2020 18:50	WG1578255
Bromomethane	U		0.148	0.500	1	11/18/2020 18:50	WG1578255
n-Butylbenzene	U		0.153	0.500	1	11/18/2020 18:50	WG1578255
sec-Butylbenzene	U		0.101	0.500	1	11/18/2020 18:50	WG1578255
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2020 18:50	WG1578255
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2020 18:50	WG1578255
Chlorobenzene	U		0.0229	0.100	1	11/18/2020 18:50	WG1578255
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2020 18:50	WG1578255
Chloroethane	U	J4	0.0432	0.200	1	11/18/2020 18:50	WG1578255
Chloroform	U		0.0166	0.100	1	11/18/2020 18:50	WG1578255
Chloromethane	U		0.0556	0.500	1	11/18/2020 18:50	WG1578255
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2020 18:50	WG1578255
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2020 18:50	WG1578255
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2020 18:50	WG1578255
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2020 18:50	WG1578255
Dibromomethane	U		0.0400	0.200	1	11/18/2020 18:50	WG1578255
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2020 18:50	WG1578255
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2020 18:50	WG1578255
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2020 18:50	WG1578255
Dichlorodifluoromethane	U		0.0327	0.100	1	11/18/2020 18:50	WG1578255
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2020 18:50	WG1578255
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2020 18:50	WG1578255
1,1-Dichloroethene	0.0440	J	0.0200	0.100	1	11/18/2020 18:50	WG1578255
cis-1,2-Dichloroethene	25.1		0.0276	0.100	1	11/18/2020 18:50	WG1578255
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2020 18:50	WG1578255
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2020 18:50	WG1578255
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2020 18:50	WG1578255
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2020 18:50	WG1578255
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2020 18:50	WG1578255
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2020 18:50	WG1578255
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2020 18:50	WG1578255
Di-isopropyl ether	0.127		0.0140	0.0400	1	11/18/2020 18:50	WG1578255
Ethylbenzene	U		0.0212	0.100	1	11/18/2020 18:50	WG1578255
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/18/2020 18:50	WG1578255
Isopropylbenzene	U		0.0345	0.100	1	11/18/2020 18:50	WG1578255
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2020 18:50	WG1578255
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2020 18:50	WG1578255
Methylene Chloride	U		0.265	1.00	1	11/18/2020 18:50	WG1578255
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2020 18:50	WG1578255
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2020 18:50	WG1578255
Naphthalene	U		0.124	0.500	1	11/18/2020 18:50	WG1578255
n-Propylbenzene	U		0.0472	0.200	1	11/18/2020 18:50	WG1578255
Styrene	U		0.109	0.500	1	11/18/2020 18:50	WG1578255
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2020 18:50	WG1578255
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2020 18:50	WG1578255
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2020 18:50	WG1578255
Tetrachloroethene	0.0740	J	0.0280	0.100	1	11/18/2020 18:50	WG1578255
Toluene	0.167	J	0.0500	0.200	1	11/18/2020 18:50	WG1578255
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/18/2020 18:50	WG1578255
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2020 18:50	WG1578255
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2020 18:50	WG1578255

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2020 18:50	WG1578255
Trichloroethene	0.102		0.0160	0.0400	1	11/18/2020 18:50	WG1578255
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2020 18:50	WG1578255
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2020 18:50	WG1578255
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2020 18:50	WG1578255
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2020 18:50	WG1578255
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2020 18:50	WG1578255
Vinyl chloride	5.99		0.0273	0.100	1	11/18/2020 18:50	WG1578255
Xylenes, Total	U		0.191	0.260	1	11/18/2020 18:50	WG1578255
Ethyl Ether	0.0510	J	0.0170	0.100	1	11/18/2020 18:50	WG1578255
Tetrahydrofuran	U		0.0900	0.500	1	11/18/2020 18:50	WG1578255
Iodomethane	U		0.242	0.500	1	11/18/2020 18:50	WG1578255
Allyl chloride	U		0.580	1.00	1	11/18/2020 18:50	WG1578255
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/18/2020 18:50	WG1578255
(S) Toluene-d8	*106*			*75.0-131*		*11/18/2020 18:50*	WG1578255
(S) 4-Bromofluorobenzene	*99.7*			*67.0-138*		*11/18/2020 18:50*	WG1578255
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*11/18/2020 18:50*	WG1578255

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2020 19:09	WG1578255
Acrylonitrile	U		0.0760	0.500	1	11/18/2020 19:09	WG1578255
Benzene	0.0190	J	0.0160	0.0400	1	11/18/2020 19:09	WG1578255
Bromobenzene	U		0.0420	0.500	1	11/18/2020 19:09	WG1578255
Bromodichloromethane	U		0.0315	0.100	1	11/18/2020 19:09	WG1578255
Bromoform	U		0.239	1.00	1	11/18/2020 19:09	WG1578255
Bromomethane	U		0.148	0.500	1	11/18/2020 19:09	WG1578255
n-Butylbenzene	U		0.153	0.500	1	11/18/2020 19:09	WG1578255
sec-Butylbenzene	U		0.101	0.500	1	11/18/2020 19:09	WG1578255
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2020 19:09	WG1578255
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2020 19:09	WG1578255
Chlorobenzene	U		0.0229	0.100	1	11/18/2020 19:09	WG1578255
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2020 19:09	WG1578255
Chloroethane	U	J4	0.0432	0.200	1	11/18/2020 19:09	WG1578255
Chloroform	U		0.0166	0.100	1	11/18/2020 19:09	WG1578255
Chloromethane	U		0.0556	0.500	1	11/18/2020 19:09	WG1578255
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2020 19:09	WG1578255
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2020 19:09	WG1578255
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2020 19:09	WG1578255
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2020 19:09	WG1578255
Dibromomethane	U		0.0400	0.200	1	11/18/2020 19:09	WG1578255
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2020 19:09	WG1578255
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2020 19:09	WG1578255
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2020 19:09	WG1578255
Dichlorodifluoromethane	U		0.0327	0.100	1	11/18/2020 19:09	WG1578255
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2020 19:09	WG1578255
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2020 19:09	WG1578255
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2020 19:09	WG1578255
cis-1,2-Dichloroethene	0.238		0.0276	0.100	1	11/18/2020 19:09	WG1578255
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2020 19:09	WG1578255
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2020 19:09	WG1578255
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2020 19:09	WG1578255
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2020 19:09	WG1578255
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2020 19:09	WG1578255
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2020 19:09	WG1578255
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2020 19:09	WG1578255
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2020 19:09	WG1578255
Ethylbenzene	U		0.0212	0.100	1	11/18/2020 19:09	WG1578255
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/18/2020 19:09	WG1578255
Isopropylbenzene	U		0.0345	0.100	1	11/18/2020 19:09	WG1578255
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2020 19:09	WG1578255
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2020 19:09	WG1578255
Methylene Chloride	U		0.265	1.00	1	11/18/2020 19:09	WG1578255
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2020 19:09	WG1578255
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2020 19:09	WG1578255
Naphthalene	U		0.124	0.500	1	11/18/2020 19:09	WG1578255
n-Propylbenzene	U		0.0472	0.200	1	11/18/2020 19:09	WG1578255
Styrene	U		0.109	0.500	1	11/18/2020 19:09	WG1578255
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2020 19:09	WG1578255
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2020 19:09	WG1578255
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2020 19:09	WG1578255
Tetrachloroethene	U		0.0280	0.100	1	11/18/2020 19:09	WG1578255
Toluene	U		0.0500	0.200	1	11/18/2020 19:09	WG1578255
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/18/2020 19:09	WG1578255
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2020 19:09	WG1578255
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2020 19:09	WG1578255

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2020 19:09	WG1578255
Trichloroethene	U		0.0160	0.0400	1	11/18/2020 19:09	WG1578255
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2020 19:09	WG1578255
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2020 19:09	WG1578255
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2020 19:09	WG1578255
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2020 19:09	WG1578255
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2020 19:09	WG1578255
Vinyl chloride	U		0.0273	0.100	1	11/18/2020 19:09	WG1578255
Xylenes, Total	U		0.191	0.260	1	11/18/2020 19:09	WG1578255
Ethyl Ether	U		0.0170	0.100	1	11/18/2020 19:09	WG1578255
Tetrahydrofuran	U		0.0900	0.500	1	11/18/2020 19:09	WG1578255
Iodomethane	U		0.242	0.500	1	11/18/2020 19:09	WG1578255
Allyl chloride	U		0.580	1.00	1	11/18/2020 19:09	WG1578255
Trans-1,4-Dichloro-2-butene	0.116	J	0.0560	0.200	1	11/18/2020 19:09	WG1578255
(S) Toluene-d8	*104*			*75.0-131*		*11/18/2020 19:09*	WG1578255
(S) 4-Bromofluorobenzene	*99.9*			*67.0-138*		*11/18/2020 19:09*	WG1578255
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*11/18/2020 19:09*	WG1578255

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	142000		8450	20000	1	11/19/2020 05:56	WG1578247

Sample Narrative:
L1284447-09 WG1578247: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	11200		594	5000	1	11/20/2020 05:12	WG1579481

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)	956	B J	102	1000	1	11/17/2020 20:37	WG1577659

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2680		28.1	100	1	11/18/2020 11:41	WG1577444
Manganese	327		0.704	5.00	1	11/18/2020 11:41	WG1577444

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	32.7		0.287	0.678	1	11/18/2020 11:00	WG1577557
Ethane	U		0.296	1.29	1	11/18/2020 11:00	WG1577557
Ethene	U		0.422	1.27	1	11/18/2020 11:00	WG1577557

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2020 19:28	WG1578255
Acrylonitrile	U		0.0760	0.500	1	11/18/2020 19:28	WG1578255
Benzene	U		0.0160	0.0400	1	11/18/2020 19:28	WG1578255
Bromobenzene	U		0.0420	0.500	1	11/18/2020 19:28	WG1578255
Bromodichloromethane	U		0.0315	0.100	1	11/18/2020 19:28	WG1578255
Bromoform	U		0.239	1.00	1	11/18/2020 19:28	WG1578255
Bromomethane	U		0.148	0.500	1	11/18/2020 19:28	WG1578255
n-Butylbenzene	U		0.153	0.500	1	11/18/2020 19:28	WG1578255
sec-Butylbenzene	U		0.101	0.500	1	11/18/2020 19:28	WG1578255
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2020 19:28	WG1578255
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2020 19:28	WG1578255
Chlorobenzene	U		0.0229	0.100	1	11/18/2020 19:28	WG1578255
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2020 19:28	WG1578255
Chloroethane	U	J4	0.0432	0.200	1	11/18/2020 19:28	WG1578255
Chloroform	U		0.0166	0.100	1	11/18/2020 19:28	WG1578255
Chloromethane	U		0.0556	0.500	1	11/18/2020 19:28	WG1578255
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2020 19:28	WG1578255
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2020 19:28	WG1578255
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2020 19:28	WG1578255
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2020 19:28	WG1578255
Dibromomethane	U		0.0400	0.200	1	11/18/2020 19:28	WG1578255
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2020 19:28	WG1578255

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2020 19:28	WG1578255
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2020 19:28	WG1578255
Dichlorodifluoromethane	U		0.0327	0.100	1	11/18/2020 19:28	WG1578255
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2020 19:28	WG1578255
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2020 19:28	WG1578255
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2020 19:28	WG1578255
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/18/2020 19:28	WG1578255
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2020 19:28	WG1578255
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2020 19:28	WG1578255
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2020 19:28	WG1578255
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2020 19:28	WG1578255
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2020 19:28	WG1578255
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2020 19:28	WG1578255
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2020 19:28	WG1578255
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2020 19:28	WG1578255
Ethylbenzene	U		0.0212	0.100	1	11/18/2020 19:28	WG1578255
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/18/2020 19:28	WG1578255
Isopropylbenzene	U		0.0345	0.100	1	11/18/2020 19:28	WG1578255
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2020 19:28	WG1578255
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2020 19:28	WG1578255
Methylene Chloride	U		0.265	1.00	1	11/18/2020 19:28	WG1578255
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2020 19:28	WG1578255
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2020 19:28	WG1578255
Naphthalene	U		0.124	0.500	1	11/18/2020 19:28	WG1578255
n-Propylbenzene	U		0.0472	0.200	1	11/18/2020 19:28	WG1578255
Styrene	U		0.109	0.500	1	11/18/2020 19:28	WG1578255
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2020 19:28	WG1578255
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2020 19:28	WG1578255
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2020 19:28	WG1578255
Tetrachloroethene	U		0.0280	0.100	1	11/18/2020 19:28	WG1578255
Toluene	0.314		0.0500	0.200	1	11/18/2020 19:28	WG1578255
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/18/2020 19:28	WG1578255
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2020 19:28	WG1578255
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2020 19:28	WG1578255
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2020 19:28	WG1578255
Trichloroethene	U		0.0160	0.0400	1	11/18/2020 19:28	WG1578255
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2020 19:28	WG1578255
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2020 19:28	WG1578255
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2020 19:28	WG1578255
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2020 19:28	WG1578255
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2020 19:28	WG1578255
Vinyl chloride	0.333		0.0273	0.100	1	11/18/2020 19:28	WG1578255
Xylenes, Total	U		0.191	0.260	1	11/18/2020 19:28	WG1578255
Ethyl Ether	U		0.0170	0.100	1	11/18/2020 19:28	WG1578255
Tetrahydrofuran	U		0.0900	0.500	1	11/18/2020 19:28	WG1578255
Iodomethane	U		0.242	0.500	1	11/18/2020 19:28	WG1578255
Allyl chloride	U		0.580	1.00	1	11/18/2020 19:28	WG1578255
Trans-1,4-Dichloro-2-butene	0.131	J	0.0560	0.200	1	11/18/2020 19:28	WG1578255
(S) Toluene-d8	*105*			*75.0-131*		*11/18/2020 19:28*	WG1578255
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/18/2020 19:28*	WG1578255
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*11/18/2020 19:28*	WG1578255

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2020 19:47	WG1578255
Acrylonitrile	U		0.0760	0.500	1	11/18/2020 19:47	WG1578255
Benzene	U		0.0160	0.0400	1	11/18/2020 19:47	WG1578255
Bromobenzene	U		0.0420	0.500	1	11/18/2020 19:47	WG1578255
Bromodichloromethane	U		0.0315	0.100	1	11/18/2020 19:47	WG1578255
Bromoform	U		0.239	1.00	1	11/18/2020 19:47	WG1578255
Bromomethane	U		0.148	0.500	1	11/18/2020 19:47	WG1578255
n-Butylbenzene	U		0.153	0.500	1	11/18/2020 19:47	WG1578255
sec-Butylbenzene	U		0.101	0.500	1	11/18/2020 19:47	WG1578255
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2020 19:47	WG1578255
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2020 19:47	WG1578255
Chlorobenzene	U		0.0229	0.100	1	11/18/2020 19:47	WG1578255
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2020 19:47	WG1578255
Chloroethane	U	J4	0.0432	0.200	1	11/18/2020 19:47	WG1578255
Chloroform	0.0450	J	0.0166	0.100	1	11/18/2020 19:47	WG1578255
Chloromethane	U		0.0556	0.500	1	11/18/2020 19:47	WG1578255
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2020 19:47	WG1578255
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2020 19:47	WG1578255
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2020 19:47	WG1578255
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2020 19:47	WG1578255
Dibromomethane	U		0.0400	0.200	1	11/18/2020 19:47	WG1578255
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2020 19:47	WG1578255
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2020 19:47	WG1578255
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2020 19:47	WG1578255
Dichlorodifluoromethane	U		0.0327	0.100	1	11/18/2020 19:47	WG1578255
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2020 19:47	WG1578255
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2020 19:47	WG1578255
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2020 19:47	WG1578255
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/18/2020 19:47	WG1578255
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2020 19:47	WG1578255
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2020 19:47	WG1578255
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2020 19:47	WG1578255
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2020 19:47	WG1578255
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2020 19:47	WG1578255
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2020 19:47	WG1578255
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2020 19:47	WG1578255
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2020 19:47	WG1578255
Ethylbenzene	U		0.0212	0.100	1	11/18/2020 19:47	WG1578255
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/18/2020 19:47	WG1578255
Isopropylbenzene	U		0.0345	0.100	1	11/18/2020 19:47	WG1578255
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2020 19:47	WG1578255
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2020 19:47	WG1578255
Methylene Chloride	U		0.265	1.00	1	11/18/2020 19:47	WG1578255
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2020 19:47	WG1578255
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2020 19:47	WG1578255
Naphthalene	U		0.124	0.500	1	11/18/2020 19:47	WG1578255
n-Propylbenzene	U		0.0472	0.200	1	11/18/2020 19:47	WG1578255
Styrene	U		0.109	0.500	1	11/18/2020 19:47	WG1578255
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2020 19:47	WG1578255
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2020 19:47	WG1578255
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2020 19:47	WG1578255
Tetrachloroethene	U		0.0280	0.100	1	11/18/2020 19:47	WG1578255
Toluene	U		0.0500	0.200	1	11/18/2020 19:47	WG1578255
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/18/2020 19:47	WG1578255
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2020 19:47	WG1578255
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2020 19:47	WG1578255

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2020 19:47	WG1578255
Trichloroethene	U		0.0160	0.0400	1	11/18/2020 19:47	WG1578255
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2020 19:47	WG1578255
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2020 19:47	WG1578255
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2020 19:47	WG1578255
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2020 19:47	WG1578255
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2020 19:47	WG1578255
Vinyl chloride	U		0.0273	0.100	1	11/18/2020 19:47	WG1578255
Xylenes, Total	U		0.191	0.260	1	11/18/2020 19:47	WG1578255
Ethyl Ether	U		0.0170	0.100	1	11/18/2020 19:47	WG1578255
Tetrahydrofuran	U		0.0900	0.500	1	11/18/2020 19:47	WG1578255
Iodomethane	U		0.242	0.500	1	11/18/2020 19:47	WG1578255
Allyl chloride	U		0.580	1.00	1	11/18/2020 19:47	WG1578255
Trans-1,4-Dichloro-2-butene	0.115	J	0.0560	0.200	1	11/18/2020 19:47	WG1578255
(S) Toluene-d8	*103*			*75.0-131*		*11/18/2020 19:47*	WG1578255
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*11/18/2020 19:47*	WG1578255
(S) 1,2-Dichloroethane-d4	*121*			*70.0-130*		*11/18/2020 19:47*	WG1578255

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	343000		8450	20000	1	11/19/2020 06:03	WG1578247

Sample Narrative:

L1284447-11 WG1578247: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	16600		594	5000	1	11/20/2020 06:03	WG1579481

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)	3040		102	1000	1	11/17/2020 20:49	WG1577659

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	5850		28.1	100	1	11/18/2020 11:53	WG1577444
Manganese	890		0.704	5.00	1	11/18/2020 11:53	WG1577444

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	2930		31.6	100	1	11/15/2020 10:54	WG1576631
(S) a,a,a-Trifluorotoluene(FID)	*94.0*			*78.0-120*		*11/15/2020 10:54*	WG1576631

Sample Narrative:

L1284447-11 WG1576631: 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	8350		2.87	6.78	10	11/18/2020 15:32	WG1578521
Ethane	3.95		0.296	1.29	1	11/18/2020 11:03	WG1577557
Ethene	552		0.422	1.27	1	11/18/2020 11:03	WG1577557

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	C3	54.8	100	100	11/20/2020 11:06	WG1579376
Acrylonitrile	U	C3	7.60	50.0	100	11/20/2020 11:06	WG1579376
Benzene	U		1.60	4.00	100	11/20/2020 11:06	WG1579376
Bromobenzene	U		4.20	50.0	100	11/20/2020 11:06	WG1579376
Bromodichloromethane	U		3.15	10.0	100	11/20/2020 11:06	WG1579376
Bromoform	U		23.9	100	100	11/20/2020 11:06	WG1579376
Bromomethane	U		14.8	50.0	100	11/20/2020 11:06	WG1579376
n-Butylbenzene	U		15.3	50.0	100	11/20/2020 11:06	WG1579376
sec-Butylbenzene	U		10.1	50.0	100	11/20/2020 11:06	WG1579376
tert-Butylbenzene	U		6.20	20.0	100	11/20/2020 11:06	WG1579376
Carbon tetrachloride	U		4.32	20.0	100	11/20/2020 11:06	WG1579376
Chlorobenzene	U		2.29	10.0	100	11/20/2020 11:06	WG1579376

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorodibromomethane	U		1.80	10.0	100	11/20/2020 11:06	WG1579376
Chloroethane	U		4.32	20.0	100	11/20/2020 11:06	WG1579376
Chloroform	U		1.66	10.0	100	11/20/2020 11:06	WG1579376
Chloromethane	U	C3	5.56	50.0	100	11/20/2020 11:06	WG1579376
2-Chlorotoluene	U		3.68	10.0	100	11/20/2020 11:06	WG1579376
4-Chlorotoluene	U		4.52	20.0	100	11/20/2020 11:06	WG1579376
1,2-Dibromo-3-Chloropropane	U		20.4	100	100	11/20/2020 11:06	WG1579376
1,2-Dibromoethane	U		2.10	10.0	100	11/20/2020 11:06	WG1579376
Dibromomethane	U		4.00	20.0	100	11/20/2020 11:06	WG1579376
1,2-Dichlorobenzene	U		5.80	20.0	100	11/20/2020 11:06	WG1579376
1,3-Dichlorobenzene	U		6.80	20.0	100	11/20/2020 11:06	WG1579376
1,4-Dichlorobenzene	U		7.88	20.0	100	11/20/2020 11:06	WG1579376
Dichlorodifluoromethane	U		3.27	10.0	100	11/20/2020 11:06	WG1579376
1,1-Dichloroethane	U		2.30	10.0	100	11/20/2020 11:06	WG1579376
1,2-Dichloroethane	U		1.90	10.0	100	11/20/2020 11:06	WG1579376
1,1-Dichloroethene	U	C3	2.00	10.0	100	11/20/2020 11:06	WG1579376
cis-1,2-Dichloroethene	3740		2.76	10.0	100	11/20/2020 11:06	WG1579376
trans-1,2-Dichloroethene	9.23	J	5.72	20.0	100	11/20/2020 11:06	WG1579376
1,2-Dichloropropane	U		5.08	20.0	100	11/20/2020 11:06	WG1579376
1,1-Dichloropropene	U		2.80	10.0	100	11/20/2020 11:06	WG1579376
1,3-Dichloropropane	U		7.00	20.0	100	11/20/2020 11:06	WG1579376
cis-1,3-Dichloropropene	U		2.71	10.0	100	11/20/2020 11:06	WG1579376
trans-1,3-Dichloropropene	U		6.12	20.0	100	11/20/2020 11:06	WG1579376
2,2-Dichloropropane	U		3.17	10.0	100	11/20/2020 11:06	WG1579376
Di-isopropyl ether	U	C4	1.40	4.00	100	11/20/2020 11:06	WG1579376
Ethylbenzene	U		2.12	10.0	100	11/20/2020 11:06	WG1579376
Hexachloro-1,3-butadiene	U		50.8	100	100	11/20/2020 11:06	WG1579376
Isopropylbenzene	U		3.45	10.0	100	11/20/2020 11:06	WG1579376
p-Isopropyltoluene	U		9.32	20.0	100	11/20/2020 11:06	WG1579376
2-Butanone (MEK)	U	C3	50.0	100	100	11/20/2020 11:06	WG1579376
Methylene Chloride	U		26.5	100	100	11/20/2020 11:06	WG1579376
4-Methyl-2-pentanone (MIBK)	U	C3	40.0	100	100	11/20/2020 11:06	WG1579376
Methyl tert-butyl ether	U		1.18	4.00	100	11/20/2020 11:06	WG1579376
Naphthalene	U		12.4	50.0	100	11/20/2020 11:06	WG1579376
n-Propylbenzene	U		4.72	20.0	100	11/20/2020 11:06	WG1579376
Styrene	U		10.9	50.0	100	11/20/2020 11:06	WG1579376
1,1,1,2-Tetrachloroethane	U		2.00	10.0	100	11/20/2020 11:06	WG1579376
1,1,2,2-Tetrachloroethane	U		1.56	10.0	100	11/20/2020 11:06	WG1579376
1,1,2-Trichlorotrifluoroethane	U		2.70	10.0	100	11/21/2020 09:28	WG1579872
Tetrachloroethene	U		2.80	10.0	100	11/20/2020 11:06	WG1579376
Toluene	U		5.00	20.0	100	11/20/2020 11:06	WG1579376
1,2,3-Trichlorobenzene	U		2.50	50.0	100	11/20/2020 11:06	WG1579376
1,2,4-Trichlorobenzene	U		19.3	50.0	100	11/20/2020 11:06	WG1579376
1,1,1-Trichloroethane	U		1.10	10.0	100	11/20/2020 11:06	WG1579376
1,1,2-Trichloroethane	U		3.53	10.0	100	11/20/2020 11:06	WG1579376
Trichloroethene	4.73		1.60	4.00	100	11/20/2020 11:06	WG1579376
Trichlorofluoromethane	U		2.00	10.0	100	11/20/2020 11:06	WG1579376
1,2,3-Trichloropropane	U		20.4	50.0	100	11/20/2020 11:06	WG1579376
1,2,4-Trimethylbenzene	U		4.64	20.0	100	11/20/2020 11:06	WG1579376
1,2,3-Trimethylbenzene	U		4.60	20.0	100	11/20/2020 11:06	WG1579376
1,3,5-Trimethylbenzene	U		4.32	20.0	100	11/20/2020 11:06	WG1579376
Vinyl chloride	7290		2.73	10.0	100	11/20/2020 11:06	WG1579376
Xylenes, Total	U		19.1	26.0	100	11/20/2020 11:06	WG1579376
Ethyl Ether	U	C3	1.70	10.0	100	11/20/2020 11:06	WG1579376
Tetrahydrofuran	U	C3	9.00	50.0	100	11/20/2020 11:06	WG1579376
Iodomethane	U		24.2	50.0	100	11/20/2020 11:06	WG1579376

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Allyl chloride	U		58.0	100	100	11/20/2020 11:06	WG1579376
Trans-1,4-Dichloro-2-butene	U	C3	5.60	20.0	100	11/20/2020 11:06	WG1579376
(S) Toluene-d8	*100*			*75.0-131*		*11/20/2020 11:06*	WG1579376
(S) Toluene-d8	*107*			*75.0-131*		*11/21/2020 09:28*	WG1579872
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/20/2020 11:06*	WG1579376
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*11/21/2020 09:28*	WG1579872
(S) 1,2-Dichloroethane-d4	*95.5*			*70.0-130*		*11/20/2020 11:06*	WG1579376
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*11/21/2020 09:28*	WG1579872

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2020 20:05	WG1578255
Acrylonitrile	U		0.0760	0.500	1	11/18/2020 20:05	WG1578255
Benzene	0.0190	J	0.0160	0.0400	1	11/18/2020 20:05	WG1578255
Bromobenzene	U		0.0420	0.500	1	11/18/2020 20:05	WG1578255
Bromodichloromethane	U		0.0315	0.100	1	11/18/2020 20:05	WG1578255
Bromoform	U		0.239	1.00	1	11/18/2020 20:05	WG1578255
Bromomethane	U		0.148	0.500	1	11/18/2020 20:05	WG1578255
n-Butylbenzene	U		0.153	0.500	1	11/18/2020 20:05	WG1578255
sec-Butylbenzene	U		0.101	0.500	1	11/18/2020 20:05	WG1578255
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2020 20:05	WG1578255
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2020 20:05	WG1578255
Chlorobenzene	U		0.0229	0.100	1	11/18/2020 20:05	WG1578255
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2020 20:05	WG1578255
Chloroethane	U	J4	0.0432	0.200	1	11/18/2020 20:05	WG1578255
Chloroform	U		0.0166	0.100	1	11/18/2020 20:05	WG1578255
Chloromethane	U		0.0556	0.500	1	11/18/2020 20:05	WG1578255
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2020 20:05	WG1578255
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2020 20:05	WG1578255
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2020 20:05	WG1578255
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2020 20:05	WG1578255
Dibromomethane	U		0.0400	0.200	1	11/18/2020 20:05	WG1578255
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2020 20:05	WG1578255
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2020 20:05	WG1578255
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2020 20:05	WG1578255
Dichlorodifluoromethane	U		0.0327	0.100	1	11/18/2020 20:05	WG1578255
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2020 20:05	WG1578255
1,2-Dichloroethane	0.0500	J	0.0190	0.100	1	11/18/2020 20:05	WG1578255
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2020 20:05	WG1578255
cis-1,2-Dichloroethene	0.0870	J	0.0276	0.100	1	11/18/2020 20:05	WG1578255
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2020 20:05	WG1578255
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2020 20:05	WG1578255
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2020 20:05	WG1578255
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2020 20:05	WG1578255
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2020 20:05	WG1578255
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2020 20:05	WG1578255
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2020 20:05	WG1578255
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2020 20:05	WG1578255
Ethylbenzene	U		0.0212	0.100	1	11/18/2020 20:05	WG1578255
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/18/2020 20:05	WG1578255
Isopropylbenzene	U		0.0345	0.100	1	11/18/2020 20:05	WG1578255
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2020 20:05	WG1578255
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2020 20:05	WG1578255
Methylene Chloride	U		0.265	1.00	1	11/18/2020 20:05	WG1578255
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2020 20:05	WG1578255
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2020 20:05	WG1578255
Naphthalene	U		0.124	0.500	1	11/18/2020 20:05	WG1578255
n-Propylbenzene	U		0.0472	0.200	1	11/18/2020 20:05	WG1578255
Styrene	U		0.109	0.500	1	11/18/2020 20:05	WG1578255
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2020 20:05	WG1578255
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2020 20:05	WG1578255
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2020 20:05	WG1578255
Tetrachloroethene	U		0.0280	0.100	1	11/18/2020 20:05	WG1578255
Toluene	U		0.0500	0.200	1	11/18/2020 20:05	WG1578255
1,2,3-Trichlorobenzene	U	C4	0.0250	0.500	1	11/18/2020 20:05	WG1578255
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2020 20:05	WG1578255
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2020 20:05	WG1578255

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2020 20:05	WG1578255
Trichloroethene	U		0.0160	0.0400	1	11/18/2020 20:05	WG1578255
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2020 20:05	WG1578255
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2020 20:05	WG1578255
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2020 20:05	WG1578255
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2020 20:05	WG1578255
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2020 20:05	WG1578255
Vinyl chloride	U		0.0273	0.100	1	11/18/2020 20:05	WG1578255
Xylenes, Total	U		0.191	0.260	1	11/18/2020 20:05	WG1578255
Ethyl Ether	0.0940	J	0.0170	0.100	1	11/18/2020 20:05	WG1578255
Tetrahydrofuran	0.360	J	0.0900	0.500	1	11/18/2020 20:05	WG1578255
Iodomethane	U		0.242	0.500	1	11/18/2020 20:05	WG1578255
Allyl chloride	U		0.580	1.00	1	11/18/2020 20:05	WG1578255
Trans-1,4-Dichloro-2-butene	0.122	J	0.0560	0.200	1	11/18/2020 20:05	WG1578255
(S) Toluene-d8	*109*			*75.0-131*		*11/18/2020 20:05*	WG1578255
(S) 4-Bromofluorobenzene	*99.6*			*67.0-138*		*11/18/2020 20:05*	WG1578255
(S) 1,2-Dichloroethane-d4	*120*			*70.0-130*		*11/18/2020 20:05*	WG1578255

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.31	B C3	0.548	1.00	1	11/19/2020 10:02	WG1578897
Acrylonitrile	U		0.0760	0.500	1	11/19/2020 10:02	WG1578897
Benzene	U		0.0160	0.0400	1	11/19/2020 10:02	WG1578897
Bromobenzene	U		0.0420	0.500	1	11/19/2020 10:02	WG1578897
Bromodichloromethane	U		0.0315	0.100	1	11/19/2020 10:02	WG1578897
Bromoform	U		0.239	1.00	1	11/19/2020 10:02	WG1578897
Bromomethane	U		0.148	0.500	1	11/19/2020 10:02	WG1578897
n-Butylbenzene	U		0.153	0.500	1	11/19/2020 10:02	WG1578897
sec-Butylbenzene	U		0.101	0.500	1	11/19/2020 10:02	WG1578897
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2020 10:02	WG1578897
Carbon tetrachloride	U	J4	0.0432	0.200	1	11/19/2020 10:02	WG1578897
Chlorobenzene	U		0.0229	0.100	1	11/19/2020 10:02	WG1578897
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2020 10:02	WG1578897
Chloroethane	U	J4	0.0432	0.200	1	11/19/2020 10:02	WG1578897
Chloroform	U		0.0166	0.100	1	11/19/2020 10:02	WG1578897
Chloromethane	U		0.0556	0.500	1	11/19/2020 10:02	WG1578897
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2020 10:02	WG1578897
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2020 10:02	WG1578897
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2020 10:02	WG1578897
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2020 10:02	WG1578897
Dibromomethane	U		0.0400	0.200	1	11/19/2020 10:02	WG1578897
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2020 10:02	WG1578897
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2020 10:02	WG1578897
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2020 10:02	WG1578897
Dichlorodifluoromethane	U		0.0327	0.100	1	11/19/2020 10:02	WG1578897
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2020 10:02	WG1578897
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2020 10:02	WG1578897
1,1-Dichloroethene	U		0.0200	0.100	1	11/19/2020 10:02	WG1578897
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/19/2020 10:02	WG1578897
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2020 10:02	WG1578897
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2020 10:02	WG1578897
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2020 10:02	WG1578897
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2020 10:02	WG1578897
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2020 10:02	WG1578897
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2020 10:02	WG1578897
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2020 10:02	WG1578897
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2020 10:02	WG1578897
Ethylbenzene	U		0.0212	0.100	1	11/19/2020 10:02	WG1578897
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/19/2020 10:02	WG1578897
Isopropylbenzene	U		0.0345	0.100	1	11/19/2020 10:02	WG1578897
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2020 10:02	WG1578897
2-Butanone (MEK)	U		0.500	1.00	1	11/19/2020 10:02	WG1578897
Methylene Chloride	U		0.265	1.00	1	11/19/2020 10:02	WG1578897
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/19/2020 10:02	WG1578897
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2020 10:02	WG1578897
Naphthalene	U		0.124	0.500	1	11/19/2020 10:02	WG1578897
n-Propylbenzene	U		0.0472	0.200	1	11/19/2020 10:02	WG1578897
Styrene	U		0.109	0.500	1	11/19/2020 10:02	WG1578897
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2020 10:02	WG1578897
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2020 10:02	WG1578897
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2020 10:02	WG1578897
Tetrachloroethene	U		0.0280	0.100	1	11/19/2020 10:02	WG1578897
Toluene	U	C3	0.0500	0.200	1	11/19/2020 10:02	WG1578897
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2020 10:02	WG1578897
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2020 10:02	WG1578897
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2020 10:02	WG1578897

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2020 10:02	WG1578897
Trichloroethene	U		0.0160	0.0400	1	11/19/2020 10:02	WG1578897
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2020 10:02	WG1578897
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2020 10:02	WG1578897
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2020 10:02	WG1578897
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2020 10:02	WG1578897
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2020 10:02	WG1578897
Vinyl chloride	U	J4	0.0273	0.100	1	11/19/2020 10:02	WG1578897
Xylenes, Total	U		0.191	0.260	1	11/19/2020 10:02	WG1578897
Ethyl Ether	U	J4	0.0170	0.100	1	11/19/2020 10:02	WG1578897
Tetrahydrofuran	U		0.0900	0.500	1	11/19/2020 10:02	WG1578897
Iodomethane	U		0.242	0.500	1	11/19/2020 10:02	WG1578897
Allyl chloride	U		0.580	1.00	1	11/19/2020 10:02	WG1578897
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2020 10:02	WG1578897
(S) Toluene-d8	*102*			*75.0-131*		*11/19/2020 10:02*	WG1578897
(S) 4-Bromofluorobenzene	*132*			*67.0-138*		*11/19/2020 10:02*	WG1578897
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*11/19/2020 10:02*	WG1578897

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	232000		8450	20000	1	11/19/2020 06:11	WG1578247

Sample Narrative:

L1284447-14 WG1578247: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	17300		594	5000	1	11/20/2020 06:20	WG1579481

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1240	B	102	1000	1	11/17/2020 21:00	WG1577659

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	4130		28.1	100	1	11/18/2020 11:56	WG1577444
Manganese	666		0.704	5.00	1	11/18/2020 11:56	WG1577444

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	24.3		0.287	0.678	1	11/18/2020 11:09	WG1577557
Ethane	U		0.296	1.29	1	11/18/2020 11:09	WG1577557
Ethene	U		0.422	1.27	1	11/18/2020 11:09	WG1577557

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	0.731	B C3 J	0.548	1.00	1	11/19/2020 10:22	WG1578897
Acrylonitrile	U		0.0760	0.500	1	11/19/2020 10:22	WG1578897
Benzene	U		0.0160	0.0400	1	11/19/2020 10:22	WG1578897
Bromobenzene	U		0.0420	0.500	1	11/19/2020 10:22	WG1578897
Bromodichloromethane	U		0.0315	0.100	1	11/19/2020 10:22	WG1578897
Bromoform	U		0.239	1.00	1	11/19/2020 10:22	WG1578897
Bromomethane	U		0.148	0.500	1	11/19/2020 10:22	WG1578897
n-Butylbenzene	U		0.153	0.500	1	11/19/2020 10:22	WG1578897
sec-Butylbenzene	U		0.101	0.500	1	11/19/2020 10:22	WG1578897
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2020 10:22	WG1578897
Carbon tetrachloride	U	J4	0.0432	0.200	1	11/19/2020 10:22	WG1578897
Chlorobenzene	U		0.0229	0.100	1	11/19/2020 10:22	WG1578897
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2020 10:22	WG1578897
Chloroethane	U	J4	0.0432	0.200	1	11/19/2020 10:22	WG1578897
Chloroform	U		0.0166	0.100	1	11/19/2020 10:22	WG1578897
Chloromethane	U		0.0556	0.500	1	11/19/2020 10:22	WG1578897
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2020 10:22	WG1578897
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2020 10:22	WG1578897
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2020 10:22	WG1578897
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2020 10:22	WG1578897
Dibromomethane	U		0.0400	0.200	1	11/19/2020 10:22	WG1578897
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2020 10:22	WG1578897

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2020 10:22	WG1578897
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2020 10:22	WG1578897
Dichlorodifluoromethane	U		0.0327	0.100	1	11/19/2020 10:22	WG1578897
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2020 10:22	WG1578897
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2020 10:22	WG1578897
1,1-Dichloroethene	U		0.0200	0.100	1	11/19/2020 10:22	WG1578897
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/19/2020 10:22	WG1578897
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2020 10:22	WG1578897
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2020 10:22	WG1578897
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2020 10:22	WG1578897
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2020 10:22	WG1578897
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2020 10:22	WG1578897
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2020 10:22	WG1578897
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2020 10:22	WG1578897
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2020 10:22	WG1578897
Ethylbenzene	U		0.0212	0.100	1	11/19/2020 10:22	WG1578897
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/19/2020 10:22	WG1578897
Isopropylbenzene	U		0.0345	0.100	1	11/19/2020 10:22	WG1578897
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2020 10:22	WG1578897
2-Butanone (MEK)	U		0.500	1.00	1	11/19/2020 10:22	WG1578897
Methylene Chloride	U		0.265	1.00	1	11/19/2020 10:22	WG1578897
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/19/2020 10:22	WG1578897
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2020 10:22	WG1578897
Naphthalene	U		0.124	0.500	1	11/19/2020 10:22	WG1578897
n-Propylbenzene	U		0.0472	0.200	1	11/19/2020 10:22	WG1578897
Styrene	U		0.109	0.500	1	11/19/2020 10:22	WG1578897
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2020 10:22	WG1578897
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2020 10:22	WG1578897
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2020 10:22	WG1578897
Tetrachloroethene	U		0.0280	0.100	1	11/19/2020 10:22	WG1578897
Toluene	0.339	C3	0.0500	0.200	1	11/19/2020 10:22	WG1578897
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2020 10:22	WG1578897
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2020 10:22	WG1578897
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2020 10:22	WG1578897
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2020 10:22	WG1578897
Trichloroethene	U		0.0160	0.0400	1	11/19/2020 10:22	WG1578897
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2020 10:22	WG1578897
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2020 10:22	WG1578897
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2020 10:22	WG1578897
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2020 10:22	WG1578897
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2020 10:22	WG1578897
Vinyl chloride	U	J4	0.0273	0.100	1	11/19/2020 10:22	WG1578897
Xylenes, Total	0.216	J	0.191	0.260	1	11/19/2020 10:22	WG1578897
Ethyl Ether	U	J4	0.0170	0.100	1	11/19/2020 10:22	WG1578897
Tetrahydrofuran	U		0.0900	0.500	1	11/19/2020 10:22	WG1578897
Iodomethane	U		0.242	0.500	1	11/19/2020 10:22	WG1578897
Allyl chloride	U		0.580	1.00	1	11/19/2020 10:22	WG1578897
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2020 10:22	WG1578897
(S) Toluene-d8	*103*			*75.0-131*		*11/19/2020 10:22*	WG1578897
(S) 4-Bromofluorobenzene	*109*			*67.0-138*		*11/19/2020 10:22*	WG1578897
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*11/19/2020 10:22*	WG1578897

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	277000		8450	20000	1	11/19/2020 06:18	WG1578247

Sample Narrative:

L1284447-15 WG1578247: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	31100		594	5000	1	11/20/2020 07:11	WG1579481

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)	2180		102	1000	1	11/17/2020 21:16	WG1577659

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2590		28.1	100	1	11/18/2020 11:59	WG1577444
Manganese	1070		0.704	5.00	1	11/18/2020 11:59	WG1577444

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	2850		31.6	100	1	11/15/2020 11:18	WG1576631
(S) a,a,a-Trifluorotoluene(FID)	*94.9*			*78.0-120*		*11/15/2020 11:18*	WG1576631

Sample Narrative:

L1284447-15 WG1576631: 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	7340		2.87	6.78	10	11/18/2020 15:35	WG1578521
Ethane	2.67		0.296	1.29	1	11/18/2020 11:14	WG1577557
Ethene	315		0.422	1.27	1	11/18/2020 11:14	WG1577557

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	C3	27.4	50.0	50	11/20/2020 10:45	WG1579425
Acrylonitrile	U	C3	3.80	25.0	50	11/20/2020 10:45	WG1579425
Benzene	0.842	J	0.800	2.00	50	11/20/2020 10:45	WG1579425
Bromobenzene	U		2.10	25.0	50	11/20/2020 10:45	WG1579425
Bromodichloromethane	U		1.58	5.00	50	11/20/2020 10:45	WG1579425
Bromoform	U		12.0	50.0	50	11/20/2020 10:45	WG1579425
Bromomethane	U		7.40	25.0	50	11/20/2020 10:45	WG1579425
n-Butylbenzene	U		7.65	25.0	50	11/20/2020 10:45	WG1579425
sec-Butylbenzene	U		5.05	25.0	50	11/20/2020 10:45	WG1579425
tert-Butylbenzene	U		3.10	10.0	50	11/20/2020 10:45	WG1579425
Carbon tetrachloride	U		2.16	10.0	50	11/20/2020 10:45	WG1579425
Chlorobenzene	U		1.15	5.00	50	11/20/2020 10:45	WG1579425

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorodibromomethane	U		0.900	5.00	50	11/20/2020 10:45	WG1579425
Chloroethane	U		2.16	10.0	50	11/20/2020 10:45	WG1579425
Chloroform	U		0.830	5.00	50	11/20/2020 10:45	WG1579425
Chloromethane	U	C3	2.78	25.0	50	11/20/2020 10:45	WG1579425
2-Chlorotoluene	U		1.84	5.00	50	11/20/2020 10:45	WG1579425
4-Chlorotoluene	U		2.26	10.0	50	11/20/2020 10:45	WG1579425
1,2-Dibromo-3-Chloropropane	U		10.2	50.0	50	11/20/2020 10:45	WG1579425
1,2-Dibromoethane	U		1.05	5.00	50	11/20/2020 10:45	WG1579425
Dibromomethane	U		2.00	10.0	50	11/20/2020 10:45	WG1579425
1,2-Dichlorobenzene	U		2.90	10.0	50	11/20/2020 10:45	WG1579425
1,3-Dichlorobenzene	U		3.40	10.0	50	11/20/2020 10:45	WG1579425
1,4-Dichlorobenzene	U		3.94	10.0	50	11/20/2020 10:45	WG1579425
Dichlorodifluoromethane	U		1.64	5.00	50	11/20/2020 10:45	WG1579425
1,1-Dichloroethane	U		1.15	5.00	50	11/20/2020 10:45	WG1579425
1,2-Dichloroethane	U		0.950	5.00	50	11/20/2020 10:45	WG1579425
1,1-Dichloroethene	5.58	C3	1.00	5.00	50	11/20/2020 10:45	WG1579425
cis-1,2-Dichloroethene	3900		1.38	5.00	50	11/20/2020 10:45	WG1579425
trans-1,2-Dichloroethene	12.5		2.86	10.0	50	11/20/2020 10:45	WG1579425
1,2-Dichloropropane	U		2.54	10.0	50	11/20/2020 10:45	WG1579425
1,1-Dichloropropene	U		1.40	5.00	50	11/20/2020 10:45	WG1579425
1,3-Dichloropropane	U		3.50	10.0	50	11/20/2020 10:45	WG1579425
cis-1,3-Dichloropropene	U		1.36	5.00	50	11/20/2020 10:45	WG1579425
trans-1,3-Dichloropropene	U		3.06	10.0	50	11/20/2020 10:45	WG1579425
2,2-Dichloropropane	U		1.59	5.00	50	11/20/2020 10:45	WG1579425
Di-isopropyl ether	U	C4	0.700	2.00	50	11/20/2020 10:45	WG1579425
Ethylbenzene	U		1.06	5.00	50	11/20/2020 10:45	WG1579425
Hexachloro-1,3-butadiene	U		25.4	50.0	50	11/20/2020 10:45	WG1579425
Isopropylbenzene	U		1.73	5.00	50	11/20/2020 10:45	WG1579425
p-Isopropyltoluene	U		4.66	10.0	50	11/20/2020 10:45	WG1579425
2-Butanone (MEK)	U	C3	25.0	50.0	50	11/20/2020 10:45	WG1579425
Methylene Chloride	U		13.3	50.0	50	11/20/2020 10:45	WG1579425
4-Methyl-2-pentanone (MIBK)	U	C3	20.0	50.0	50	11/20/2020 10:45	WG1579425
Methyl tert-butyl ether	U		0.590	2.00	50	11/20/2020 10:45	WG1579425
Naphthalene	U		6.20	25.0	50	11/20/2020 10:45	WG1579425
n-Propylbenzene	U		2.36	10.0	50	11/20/2020 10:45	WG1579425
Styrene	U		5.45	25.0	50	11/20/2020 10:45	WG1579425
1,1,1,2-Tetrachloroethane	U		1.00	5.00	50	11/20/2020 10:45	WG1579425
1,1,2,2-Tetrachloroethane	U		0.780	5.00	50	11/20/2020 10:45	WG1579425
1,1,2-Trichlorotrifluoroethane	U		1.35	5.00	50	11/21/2020 09:47	WG1579872
Tetrachloroethene	U		1.40	5.00	50	11/20/2020 10:45	WG1579425
Toluene	U		2.50	10.0	50	11/20/2020 10:45	WG1579425
1,2,3-Trichlorobenzene	U		1.25	25.0	50	11/20/2020 10:45	WG1579425
1,2,4-Trichlorobenzene	U		9.65	25.0	50	11/20/2020 10:45	WG1579425
1,1,1-Trichloroethane	U		0.550	5.00	50	11/20/2020 10:45	WG1579425
1,1,2-Trichloroethane	U		1.77	5.00	50	11/20/2020 10:45	WG1579425
Trichloroethene	2.60		0.800	2.00	50	11/20/2020 10:45	WG1579425
Trichlorofluoromethane	U		1.00	5.00	50	11/20/2020 10:45	WG1579425
1,2,3-Trichloropropane	U		10.2	25.0	50	11/20/2020 10:45	WG1579425
1,2,4-Trimethylbenzene	U		2.32	10.0	50	11/20/2020 10:45	WG1579425
1,2,3-Trimethylbenzene	U		2.30	10.0	50	11/20/2020 10:45	WG1579425
1,3,5-Trimethylbenzene	U		2.16	10.0	50	11/20/2020 10:45	WG1579425
Vinyl chloride	4930		1.36	5.00	50	11/20/2020 10:45	WG1579425
Xylenes, Total	U		9.55	13.0	50	11/20/2020 10:45	WG1579425
Ethyl Ether	U	C3	0.850	5.00	50	11/20/2020 10:45	WG1579425
Tetrahydrofuran	U	C3	4.50	25.0	50	11/20/2020 10:45	WG1579425
Iodomethane	U		12.1	25.0	50	11/20/2020 10:45	WG1579425

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Allyl chloride	U		29.0	50.0	50	11/20/2020 10:45	WG1579425
Trans-1,4-Dichloro-2-butene	U	C3	2.80	10.0	50	11/20/2020 10:45	WG1579425
(S) Toluene-d8	*102*			*75.0-131*		*11/20/2020 10:45*	WG1579425
(S) Toluene-d8	*109*			*75.0-131*		*11/21/2020 09:47*	WG1579872
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/20/2020 10:45*	WG1579425
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*11/21/2020 09:47*	WG1579872
(S) 1,2-Dichloroethane-d4	*90.3*			*70.0-130*		*11/20/2020 10:45*	WG1579425
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/21/2020 09:47*	WG1579872

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.56	B C3	0.548	1.00	1	11/19/2020 10:43	WG1578897
Acrylonitrile	U		0.0760	0.500	1	11/19/2020 10:43	WG1578897
Benzene	U		0.0160	0.0400	1	11/19/2020 10:43	WG1578897
Bromobenzene	U		0.0420	0.500	1	11/19/2020 10:43	WG1578897
Bromodichloromethane	U		0.0315	0.100	1	11/19/2020 10:43	WG1578897
Bromoform	U		0.239	1.00	1	11/19/2020 10:43	WG1578897
Bromomethane	U		0.148	0.500	1	11/19/2020 10:43	WG1578897
n-Butylbenzene	U		0.153	0.500	1	11/19/2020 10:43	WG1578897
sec-Butylbenzene	U		0.101	0.500	1	11/19/2020 10:43	WG1578897
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2020 10:43	WG1578897
Carbon tetrachloride	U	J4	0.0432	0.200	1	11/19/2020 10:43	WG1578897
Chlorobenzene	U		0.0229	0.100	1	11/19/2020 10:43	WG1578897
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2020 10:43	WG1578897
Chloroethane	U	J4	0.0432	0.200	1	11/19/2020 10:43	WG1578897
Chloroform	U		0.0166	0.100	1	11/19/2020 10:43	WG1578897
Chloromethane	U		0.0556	0.500	1	11/19/2020 10:43	WG1578897
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2020 10:43	WG1578897
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2020 10:43	WG1578897
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2020 10:43	WG1578897
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2020 10:43	WG1578897
Dibromomethane	U		0.0400	0.200	1	11/19/2020 10:43	WG1578897
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2020 10:43	WG1578897
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2020 10:43	WG1578897
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2020 10:43	WG1578897
Dichlorodifluoromethane	U		0.0327	0.100	1	11/19/2020 10:43	WG1578897
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2020 10:43	WG1578897
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2020 10:43	WG1578897
1,1-Dichloroethene	U		0.0200	0.100	1	11/19/2020 10:43	WG1578897
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/19/2020 10:43	WG1578897
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2020 10:43	WG1578897
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2020 10:43	WG1578897
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2020 10:43	WG1578897
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2020 10:43	WG1578897
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2020 10:43	WG1578897
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2020 10:43	WG1578897
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2020 10:43	WG1578897
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2020 10:43	WG1578897
Ethylbenzene	U		0.0212	0.100	1	11/19/2020 10:43	WG1578897
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/19/2020 10:43	WG1578897
Isopropylbenzene	U		0.0345	0.100	1	11/19/2020 10:43	WG1578897
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2020 10:43	WG1578897
2-Butanone (MEK)	U		0.500	1.00	1	11/19/2020 10:43	WG1578897
Methylene Chloride	U		0.265	1.00	1	11/19/2020 10:43	WG1578897
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/19/2020 10:43	WG1578897
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2020 10:43	WG1578897
Naphthalene	U		0.124	0.500	1	11/19/2020 10:43	WG1578897
n-Propylbenzene	U		0.0472	0.200	1	11/19/2020 10:43	WG1578897
Styrene	U		0.109	0.500	1	11/19/2020 10:43	WG1578897
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2020 10:43	WG1578897
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2020 10:43	WG1578897
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2020 10:43	WG1578897
Tetrachloroethene	U		0.0280	0.100	1	11/19/2020 10:43	WG1578897
Toluene	0.836	C3	0.0500	0.200	1	11/19/2020 10:43	WG1578897
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2020 10:43	WG1578897
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2020 10:43	WG1578897
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2020 10:43	WG1578897

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2020 10:43	WG1578897
Trichloroethene	U		0.0160	0.0400	1	11/19/2020 10:43	WG1578897
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2020 10:43	WG1578897
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2020 10:43	WG1578897
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2020 10:43	WG1578897
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2020 10:43	WG1578897
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2020 10:43	WG1578897
Vinyl chloride	U	J4	0.0273	0.100	1	11/19/2020 10:43	WG1578897
Xylenes, Total	0.419		0.191	0.260	1	11/19/2020 10:43	WG1578897
Ethyl Ether	U	J4	0.0170	0.100	1	11/19/2020 10:43	WG1578897
Tetrahydrofuran	U		0.0900	0.500	1	11/19/2020 10:43	WG1578897
Iodomethane	U		0.242	0.500	1	11/19/2020 10:43	WG1578897
Allyl chloride	U		0.580	1.00	1	11/19/2020 10:43	WG1578897
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2020 10:43	WG1578897
(S) Toluene-d8	*128*			*75.0-131*		*11/19/2020 10:43*	WG1578897
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*11/19/2020 10:43*	WG1578897
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*11/19/2020 10:43*	WG1578897

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	238000		8450	20000	1	11/19/2020 06:25	WG1578247

Sample Narrative:

L1284447-17 WG1578247: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	17400		594	5000	1	11/20/2020 07:27	WG1579481

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)	1290	B	102	1000	1	11/17/2020 21:27	WG1577659

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	5070		28.1	100	1	11/18/2020 12:03	WG1577444
Manganese	696		0.704	5.00	1	11/18/2020 12:03	WG1577444

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	22.4		0.287	0.678	1	11/18/2020 11:16	WG1577557
Ethane	U		0.296	1.29	1	11/18/2020 11:16	WG1577557
Ethene	U		0.422	1.27	1	11/18/2020 11:16	WG1577557

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	C3	0.548	1.00	1	11/19/2020 11:03	WG1578897
Acrylonitrile	U		0.0760	0.500	1	11/19/2020 11:03	WG1578897
Benzene	U		0.0160	0.0400	1	11/19/2020 11:03	WG1578897
Bromobenzene	U		0.0420	0.500	1	11/19/2020 11:03	WG1578897
Bromodichloromethane	U		0.0315	0.100	1	11/19/2020 11:03	WG1578897
Bromoform	U		0.239	1.00	1	11/19/2020 11:03	WG1578897
Bromomethane	U		0.148	0.500	1	11/19/2020 11:03	WG1578897
n-Butylbenzene	U		0.153	0.500	1	11/19/2020 11:03	WG1578897
sec-Butylbenzene	U		0.101	0.500	1	11/19/2020 11:03	WG1578897
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2020 11:03	WG1578897
Carbon tetrachloride	U	J4	0.0432	0.200	1	11/19/2020 11:03	WG1578897
Chlorobenzene	U		0.0229	0.100	1	11/19/2020 11:03	WG1578897
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2020 11:03	WG1578897
Chloroethane	U	J4	0.0432	0.200	1	11/19/2020 11:03	WG1578897
Chloroform	U		0.0166	0.100	1	11/19/2020 11:03	WG1578897
Chloromethane	U		0.0556	0.500	1	11/19/2020 11:03	WG1578897
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2020 11:03	WG1578897
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2020 11:03	WG1578897
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2020 11:03	WG1578897
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2020 11:03	WG1578897
Dibromomethane	U		0.0400	0.200	1	11/19/2020 11:03	WG1578897
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2020 11:03	WG1578897

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2020 11:03	WG1578897
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2020 11:03	WG1578897
Dichlorodifluoromethane	U		0.0327	0.100	1	11/19/2020 11:03	WG1578897
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2020 11:03	WG1578897
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2020 11:03	WG1578897
1,1-Dichloroethene	U		0.0200	0.100	1	11/19/2020 11:03	WG1578897
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/19/2020 11:03	WG1578897
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2020 11:03	WG1578897
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2020 11:03	WG1578897
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2020 11:03	WG1578897
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2020 11:03	WG1578897
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2020 11:03	WG1578897
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2020 11:03	WG1578897
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2020 11:03	WG1578897
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2020 11:03	WG1578897
Ethylbenzene	U		0.0212	0.100	1	11/19/2020 11:03	WG1578897
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/19/2020 11:03	WG1578897
Isopropylbenzene	U		0.0345	0.100	1	11/19/2020 11:03	WG1578897
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2020 11:03	WG1578897
2-Butanone (MEK)	U		0.500	1.00	1	11/19/2020 11:03	WG1578897
Methylene Chloride	U		0.265	1.00	1	11/19/2020 11:03	WG1578897
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/19/2020 11:03	WG1578897
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2020 11:03	WG1578897
Naphthalene	U		0.124	0.500	1	11/19/2020 11:03	WG1578897
n-Propylbenzene	U		0.0472	0.200	1	11/19/2020 11:03	WG1578897
Styrene	U		0.109	0.500	1	11/19/2020 11:03	WG1578897
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2020 11:03	WG1578897
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2020 11:03	WG1578897
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2020 11:03	WG1578897
Tetrachloroethene	U		0.0280	0.100	1	11/19/2020 11:03	WG1578897
Toluene	0.415	C3	0.0500	0.200	1	11/19/2020 11:03	WG1578897
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2020 11:03	WG1578897
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2020 11:03	WG1578897
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2020 11:03	WG1578897
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2020 11:03	WG1578897
Trichloroethene	U		0.0160	0.0400	1	11/19/2020 11:03	WG1578897
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2020 11:03	WG1578897
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2020 11:03	WG1578897
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2020 11:03	WG1578897
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2020 11:03	WG1578897
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2020 11:03	WG1578897
Vinyl chloride	U	J4	0.0273	0.100	1	11/19/2020 11:03	WG1578897
Xylenes, Total	0.233	J	0.191	0.260	1	11/19/2020 11:03	WG1578897
Ethyl Ether	U	J4	0.0170	0.100	1	11/19/2020 11:03	WG1578897
Tetrahydrofuran	U		0.0900	0.500	1	11/19/2020 11:03	WG1578897
Iodomethane	U		0.242	0.500	1	11/19/2020 11:03	WG1578897
Allyl chloride	U		0.580	1.00	1	11/19/2020 11:03	WG1578897
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2020 11:03	WG1578897
(S) Toluene-d8	*144*	J1		*75.0-131*		*11/19/2020 11:03*	WG1578897
(S) 4-Bromofluorobenzene	*126*			*67.0-138*		*11/19/2020 11:03*	WG1578897
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*11/19/2020 11:03*	WG1578897

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	0.578	B C3 J	0.548	1.00	1	11/19/2020 11:23	WG1578897
Acrylonitrile	U		0.0760	0.500	1	11/19/2020 11:23	WG1578897
Benzene	U		0.0160	0.0400	1	11/19/2020 11:23	WG1578897
Bromobenzene	U		0.0420	0.500	1	11/19/2020 11:23	WG1578897
Bromodichloromethane	U		0.0315	0.100	1	11/19/2020 11:23	WG1578897
Bromoform	U		0.239	1.00	1	11/19/2020 11:23	WG1578897
Bromomethane	U		0.148	0.500	1	11/19/2020 11:23	WG1578897
n-Butylbenzene	U		0.153	0.500	1	11/19/2020 11:23	WG1578897
sec-Butylbenzene	U		0.101	0.500	1	11/19/2020 11:23	WG1578897
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2020 11:23	WG1578897
Carbon tetrachloride	U	J4	0.0432	0.200	1	11/19/2020 11:23	WG1578897
Chlorobenzene	U		0.0229	0.100	1	11/19/2020 11:23	WG1578897
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2020 11:23	WG1578897
Chloroethane	U	J4	0.0432	0.200	1	11/19/2020 11:23	WG1578897
Chloroform	U		0.0166	0.100	1	11/19/2020 11:23	WG1578897
Chloromethane	U		0.0556	0.500	1	11/19/2020 11:23	WG1578897
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2020 11:23	WG1578897
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2020 11:23	WG1578897
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2020 11:23	WG1578897
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2020 11:23	WG1578897
Dibromomethane	U		0.0400	0.200	1	11/19/2020 11:23	WG1578897
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2020 11:23	WG1578897
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2020 11:23	WG1578897
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2020 11:23	WG1578897
Dichlorodifluoromethane	U		0.0327	0.100	1	11/19/2020 11:23	WG1578897
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2020 11:23	WG1578897
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2020 11:23	WG1578897
1,1-Dichloroethene	U		0.0200	0.100	1	11/19/2020 11:23	WG1578897
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/19/2020 11:23	WG1578897
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2020 11:23	WG1578897
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2020 11:23	WG1578897
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2020 11:23	WG1578897
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2020 11:23	WG1578897
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2020 11:23	WG1578897
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2020 11:23	WG1578897
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2020 11:23	WG1578897
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2020 11:23	WG1578897
Ethylbenzene	U		0.0212	0.100	1	11/19/2020 11:23	WG1578897
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/19/2020 11:23	WG1578897
Isopropylbenzene	U		0.0345	0.100	1	11/19/2020 11:23	WG1578897
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2020 11:23	WG1578897
2-Butanone (MEK)	U		0.500	1.00	1	11/19/2020 11:23	WG1578897
Methylene Chloride	U		0.265	1.00	1	11/19/2020 11:23	WG1578897
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/19/2020 11:23	WG1578897
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2020 11:23	WG1578897
Naphthalene	U		0.124	0.500	1	11/19/2020 11:23	WG1578897
n-Propylbenzene	U		0.0472	0.200	1	11/19/2020 11:23	WG1578897
Styrene	U		0.109	0.500	1	11/19/2020 11:23	WG1578897
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2020 11:23	WG1578897
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2020 11:23	WG1578897
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2020 11:23	WG1578897
Tetrachloroethene	U		0.0280	0.100	1	11/19/2020 11:23	WG1578897
Toluene	0.435	C3	0.0500	0.200	1	11/19/2020 11:23	WG1578897
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2020 11:23	WG1578897
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2020 11:23	WG1578897
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2020 11:23	WG1578897

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2020 11:23	WG1578897
Trichloroethene	U		0.0160	0.0400	1	11/19/2020 11:23	WG1578897
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2020 11:23	WG1578897
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2020 11:23	WG1578897
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2020 11:23	WG1578897
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2020 11:23	WG1578897
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2020 11:23	WG1578897
Vinyl chloride	U	J4	0.0273	0.100	1	11/19/2020 11:23	WG1578897
Xylenes, Total	0.316		0.191	0.260	1	11/19/2020 11:23	WG1578897
Ethyl Ether	0.300	C5 J4	0.0170	0.100	1	11/19/2020 11:23	WG1578897
Tetrahydrofuran	U		0.0900	0.500	1	11/19/2020 11:23	WG1578897
Iodomethane	U		0.242	0.500	1	11/19/2020 11:23	WG1578897
Allyl chloride	U		0.580	1.00	1	11/19/2020 11:23	WG1578897
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2020 11:23	WG1578897
(S) Toluene-d8	*125*			*75.0-131*		*11/19/2020 11:23*	WG1578897
(S) 4-Bromofluorobenzene	*112*			*67.0-138*		*11/19/2020 11:23*	WG1578897
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*11/19/2020 11:23*	WG1578897

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	126	B	31.6	100	1	11/17/2020 07:49	WG1577448
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*11/17/2020 07:49*	WG1577448

Sample Narrative:

L1284447-19 WG1577448: 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	0.958	B C3 J	0.548	1.00	1	11/19/2020 09:21	WG1578897
Acrylonitrile	U		0.0760	0.500	1	11/19/2020 09:21	WG1578897
Benzene	U		0.0160	0.0400	1	11/19/2020 09:21	WG1578897
Bromobenzene	U		0.0420	0.500	1	11/19/2020 09:21	WG1578897
Bromodichloromethane	U		0.0315	0.100	1	11/19/2020 09:21	WG1578897
Bromoform	U		0.239	1.00	1	11/19/2020 09:21	WG1578897
Bromomethane	U		0.148	0.500	1	11/19/2020 09:21	WG1578897
n-Butylbenzene	U		0.153	0.500	1	11/19/2020 09:21	WG1578897
sec-Butylbenzene	U		0.101	0.500	1	11/19/2020 09:21	WG1578897
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2020 09:21	WG1578897
Carbon tetrachloride	U	J4	0.0432	0.200	1	11/19/2020 09:21	WG1578897
Chlorobenzene	U		0.0229	0.100	1	11/19/2020 09:21	WG1578897
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2020 09:21	WG1578897
Chloroethane	U	J4	0.0432	0.200	1	11/19/2020 09:21	WG1578897
Chloroform	U		0.0166	0.100	1	11/19/2020 09:21	WG1578897
Chloromethane	U		0.0556	0.500	1	11/19/2020 09:21	WG1578897
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2020 09:21	WG1578897
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2020 09:21	WG1578897
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2020 09:21	WG1578897
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2020 09:21	WG1578897
Dibromomethane	U		0.0400	0.200	1	11/19/2020 09:21	WG1578897
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2020 09:21	WG1578897
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2020 09:21	WG1578897
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2020 09:21	WG1578897
Dichlorodifluoromethane	U		0.0327	0.100	1	11/19/2020 09:21	WG1578897
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2020 09:21	WG1578897
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2020 09:21	WG1578897
1,1-Dichloroethene	U		0.0200	0.100	1	11/19/2020 09:21	WG1578897
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/19/2020 09:21	WG1578897
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2020 09:21	WG1578897
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2020 09:21	WG1578897
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2020 09:21	WG1578897
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2020 09:21	WG1578897
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2020 09:21	WG1578897
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2020 09:21	WG1578897
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2020 09:21	WG1578897
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2020 09:21	WG1578897
Ethylbenzene	U		0.0212	0.100	1	11/19/2020 09:21	WG1578897
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/19/2020 09:21	WG1578897
Isopropylbenzene	U		0.0345	0.100	1	11/19/2020 09:21	WG1578897
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2020 09:21	WG1578897
2-Butanone (MEK)	U		0.500	1.00	1	11/19/2020 09:21	WG1578897
Methylene Chloride	U		0.265	1.00	1	11/19/2020 09:21	WG1578897
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/19/2020 09:21	WG1578897
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2020 09:21	WG1578897

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	
Naphthalene	U		0.124	0.500	1	11/19/2020 09:21	WG1578897
n-Propylbenzene	U		0.0472	0.200	1	11/19/2020 09:21	WG1578897
Styrene	U		0.109	0.500	1	11/19/2020 09:21	WG1578897
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2020 09:21	WG1578897
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2020 09:21	WG1578897
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2020 09:21	WG1578897
Tetrachloroethene	U		0.0280	0.100	1	11/19/2020 09:21	WG1578897
Toluene	U	C3	0.0500	0.200	1	11/19/2020 09:21	WG1578897
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2020 09:21	WG1578897
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2020 09:21	WG1578897
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2020 09:21	WG1578897
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2020 09:21	WG1578897
Trichloroethene	U		0.0160	0.0400	1	11/19/2020 09:21	WG1578897
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2020 09:21	WG1578897
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2020 09:21	WG1578897
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2020 09:21	WG1578897
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2020 09:21	WG1578897
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2020 09:21	WG1578897
Vinyl chloride	U	J4	0.0273	0.100	1	11/19/2020 09:21	WG1578897
Xylenes, Total	U		0.191	0.260	1	11/19/2020 09:21	WG1578897
Ethyl Ether	U	J4	0.0170	0.100	1	11/19/2020 09:21	WG1578897
Tetrahydrofuran	U		0.0900	0.500	1	11/19/2020 09:21	WG1578897
Iodomethane	U		0.242	0.500	1	11/19/2020 09:21	WG1578897
Allyl chloride	U		0.580	1.00	1	11/19/2020 09:21	WG1578897
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2020 09:21	WG1578897
(S) Toluene-d8	*122*			*75.0-131*		*11/19/2020 09:21*	WG1578897
(S) 4-Bromofluorobenzene	*129*			*67.0-138*		*11/19/2020 09:21*	WG1578897
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*11/19/2020 09:21*	WG1578897

Method Blank (MB)

(MB) R3594803-1 11/19/20 03:49

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Alkalinity	U		8450	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1283754-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1283754-01 11/19/20 04:05 • (DUP) R3594803-2 11/19/20 04:13

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	112000	111000	1	0.680		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1284447-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1284447-02 11/19/20 05:34 • (DUP) R3594803-4 11/19/20 05:41

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	197000	197000	1	0.113		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3594803-3 11/19/20 05:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	97100	97.1	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R3595734-1 11/20/20 03:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Sulfate	U		594	5000

L1284447-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1284447-06 11/20/20 04:38 • (DUP) R3595734-3 11/20/20 04:55

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	75800	76500	1	0.918		15

L1284549-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1284549-04 11/20/20 12:50 • (DUP) R3595734-6 11/20/20 15:22

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	21000	20900	1	0.557		15

Laboratory Control Sample (LCS)

(LCS) R3595734-2 11/20/20 04:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40000	41700	104	80.0-120	

L1284447-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1284447-09 11/20/20 05:12 • (MS) R3595734-4 11/20/20 05:29 • (MSD) R3595734-5 11/20/20 05:46

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 %
Sulfate	50000	11200	61800	61800	101	101	1	80.0-120			0.0767	15

L1284715-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1284715-01 11/20/20 16:16 • (MS) R3595734-7 11/20/20 16:33

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	50000	5560	56600	102	1	80.0-120	

Method Blank (MB)

(MB) R3594280-1 11/17/20 12:05

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	170	J	102	1000

L1284393-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1284393-06 11/17/20 16:10 • (DUP) R3594280-5 11/17/20 16:24

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	1020	973	1	4.26	J	20

L1284447-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1284447-02 11/17/20 19:58 • (DUP) R3594280-8 11/17/20 20:10

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	3420	3440	1	0.583		20

Laboratory Control Sample (LCS)

(LCS) R3594280-2 11/17/20 12:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	78400	105	85.0-115	

L1284277-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1284277-01 11/17/20 13:36 • (MS) R3594280-3 11/17/20 13:49 • (MSD) R3594280-4 11/17/20 14:03

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 (Total Organic Carbon)	50000	48500	96600	97000	96.1	96.9	1	80.0-120			0.403	20

L1284393-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1284393-07 11/17/20 16:37 • (MS) R3594280-6 11/17/20 16:52 • (MSD) R3594280-7 11/17/20 17:07

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	50000	951	48800	50300	95.8	98.7	1	80.0-120			2.93	20

Method Blank (MB)

(MB) R3594455-1 11/18/20 11:10

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

Laboratory Control Sample (LCS)

(LCS) R3594455-2 11/18/20 11:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	5000	5370	107	80.0-120	
Manganese	50.0	50.1	100	80.0-120	

L1284685-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1284685-06 11/18/20 11:17 • (MS) R3594455-4 11/18/20 11:24 • (MSD) R3594455-5 11/18/20 11:27

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	5000	46.8	5380	5260	107	104	1	75.0-125			2.19	20
Manganese	50.0	1.19	50.9	49.7	99.4	97.1	1	75.0-125			2.26	20

Method Blank (MB)

(MB) R3594499-2 11/15/20 02:46

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	43.7	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	*95.9*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3594499-1 11/15/20 01:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	4920	89.5	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*86.2*	*78.0-120*	

Method Blank (MB)

(MB) R3594025-3 11/17/20 03:28

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	38.9	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3594025-2 11/17/20 03:07

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5100	92.7	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*96.9*	*78.0-120*	

L1285847-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1285847-01 11/17/20 08:31 • (MS) R3594025-6 11/17/20 14:25 • (MSD) R3594025-7 11/17/20 14:46

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 %
Gasoline Range Organics-NWTPH	275000	25300	326000	322000	109	108	50	10.0-155			1.23	21
(S) a,a,a-Trifluorotoluene(FID)					*105*	*106*		*78.0-120*				

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

Method Blank (MB)

(MB) R3594365-2 11/18/20 09:22

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

L1284715-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1284715-01 11/18/20 09:26 • (DUP) R3594365-3 11/18/20 10:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	287	295	1	2.75		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1284447-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1284447-02 11/18/20 10:54 • (DUP) R3594365-4 11/18/20 11:19

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	213	219	1	2.78		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) R3594365-1 11/18/20 09:17 • (LCSD) R3594365-5 11/18/20 11:24

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	72.8	70.0	107	103	85.0-115			3.92	20
Ethane	129	133	132	103	102	85.0-115			0.755	20
Ethene	127	131	130	103	102	85.0-115			0.766	20

Method Blank (MB)

(MB) R3594579-2 11/18/20 15:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678

L1284393-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1284393-03 11/18/20 15:23 • (DUP) R3594579-3 11/18/20 15:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	11900	11400	10	4.29		20

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

(LCS) R3594579-1 11/18/20 15:15 • (LCSD) R3594579-4 11/18/20 15:46

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	69.6	66.6	103	98.2	85.0-115			4.41	20

Method Blank (MB)

(MB) R3594548-2 11/18/20 13:09

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

Method Blank (MB)

(MB) R3594548-2 11/18/20 13:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	0.558	J	0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*106*			*75.0-131*
(S) 4-Bromofluorobenzene	*98.3*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3594548-1 11/18/20 12:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	29.5	118	10.0-160	
Acrylonitrile	25.0	34.9	140	45.0-153	
Benzene	5.00	4.88	97.6	70.0-123	
Bromobenzene	5.00	5.26	105	73.0-121	
Bromodichloromethane	5.00	5.52	110	73.0-121	
Bromoform	5.00	5.85	117	64.0-132	
Bromomethane	5.00	6.69	134	56.0-147	
n-Butylbenzene	5.00	5.09	102	68.0-135	
sec-Butylbenzene	5.00	5.41	108	74.0-130	
tert-Butylbenzene	5.00	5.30	106	75.0-127	
Carbon tetrachloride	5.00	6.09	122	66.0-128	
Chlorobenzene	5.00	5.25	105	76.0-128	
Chlorodibromomethane	5.00	5.26	105	74.0-127	
Chloroethane	5.00	7.43	149	61.0-134	J4
Chloroform	5.00	5.36	107	72.0-123	
Chloromethane	5.00	5.20	104	51.0-138	
2-Chlorotoluene	5.00	5.54	111	75.0-124	
4-Chlorotoluene	5.00	5.28	106	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	5.43	109	59.0-130	
1,2-Dibromoethane	5.00	5.09	102	74.0-128	
Dibromomethane	5.00	5.01	100	75.0-122	
1,2-Dichlorobenzene	5.00	5.23	105	76.0-124	
1,3-Dichlorobenzene	5.00	5.30	106	76.0-125	
1,4-Dichlorobenzene	5.00	5.05	101	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	5.56	111	45.0-143	
Dichlorodifluoromethane	5.00	6.35	127	43.0-156	
1,1-Dichloroethane	5.00	5.56	111	70.0-127	
1,2-Dichloroethane	5.00	5.64	113	65.0-131	
1,1-Dichloroethene	5.00	6.03	121	65.0-131	
cis-1,2-Dichloroethene	5.00	5.53	111	73.0-125	
trans-1,2-Dichloroethene	5.00	5.04	101	71.0-125	
1,2-Dichloropropane	5.00	5.48	110	74.0-125	
1,1-Dichloropropene	5.00	5.01	100	73.0-125	
1,3-Dichloropropane	5.00	5.15	103	80.0-125	
cis-1,3-Dichloropropene	5.00	5.40	108	76.0-127	
trans-1,3-Dichloropropene	5.00	5.61	112	73.0-127	
2,2-Dichloropropane	5.00	6.06	121	59.0-135	
Di-isopropyl ether	5.00	6.01	120	60.0-136	
Ethylbenzene	5.00	5.32	106	74.0-126	
Ethyl ether	5.00	5.50	110	64.0-137	

Laboratory Control Sample (LCS)

(LCS) R3594548-1 11/18/20 12:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexachloro-1,3-butadiene	5.00	6.33	127	57.0-150	
Iodomethane	25.0	29.1	116	74.0-134	
Isopropylbenzene	5.00	5.41	108	72.0-127	
p-Isopropyltoluene	5.00	5.18	104	72.0-133	
2-Butanone (MEK)	25.0	34.2	137	30.0-160	
Methylene Chloride	5.00	4.88	97.6	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	30.4	122	56.0-143	
Methyl tert-butyl ether	5.00	5.61	112	66.0-132	
Naphthalene	5.00	4.64	92.8	59.0-130	
n-Propylbenzene	5.00	5.24	105	74.0-126	
Styrene	5.00	4.93	98.6	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	5.57	111	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	4.83	96.6	68.0-128	
Tetrachloroethene	5.00	6.06	121	70.0-136	
Tetrahydrofuran	5.00	6.83	137	37.0-146	
Toluene	5.00	4.94	98.8	75.0-121	
1,1,2-Trichlorotrifluoroethane	5.00	5.16	103	61.0-139	
1,2,3-Trichlorobenzene	5.00	5.46	109	59.0-139	
1,2,4-Trichlorobenzene	5.00	5.55	111	62.0-137	
1,1,1-Trichloroethane	5.00	5.56	111	69.0-126	
1,1,2-Trichloroethane	5.00	5.03	101	78.0-123	
Trichloroethene	5.00	5.30	106	76.0-126	
Trichlorofluoromethane	5.00	6.66	133	61.0-142	
1,2,3-Trichloropropane	5.00	5.30	106	67.0-129	
1,2,3-Trimethylbenzene	5.00	4.85	97.0	74.0-124	
1,2,4-Trimethylbenzene	5.00	5.08	102	70.0-126	
1,3,5-Trimethylbenzene	5.00	5.30	106	73.0-127	
Vinyl chloride	5.00	4.99	99.8	63.0-134	
Xylenes, Total	15.0	15.4	103	72.0-127	
Allyl chloride	25.0	26.0	104	70.0-131	
(S) Toluene-d8			*104*	*75.0-131*	
(S) 4-Bromofluorobenzene			*97.6*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*113*	*70.0-130*	

Method Blank (MB)

(MB) R3595003-2 11/19/20 08:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	0.771	J	0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100

Method Blank (MB)

(MB) R3595003-2 11/19/20 08:40

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*127*			*75.0-131*
(S) 4-Bromofluorobenzene	*108*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3595003-1 11/19/20 06:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	19.3	77.2	10.0-160	
Acrylonitrile	25.0	25.1	100	45.0-153	
Benzene	5.00	5.00	100	70.0-123	
Bromobenzene	5.00	4.11	82.2	73.0-121	
Bromodichloromethane	5.00	5.26	105	73.0-121	
Bromoform	5.00	4.56	91.2	64.0-132	
Bromomethane	5.00	6.67	133	56.0-147	
n-Butylbenzene	5.00	5.35	107	68.0-135	
sec-Butylbenzene	5.00	4.87	97.4	74.0-130	
tert-Butylbenzene	5.00	4.90	98.0	75.0-127	
Carbon tetrachloride	5.00	6.47	129	66.0-128	J4
Chlorobenzene	5.00	4.91	98.2	76.0-128	
Chlorodibromomethane	5.00	5.18	104	74.0-127	
Chloroethane	5.00	7.45	149	61.0-134	J4
Chloroform	5.00	5.46	109	72.0-123	
Chloromethane	5.00	6.28	126	51.0-138	
2-Chlorotoluene	5.00	4.53	90.6	75.0-124	
4-Chlorotoluene	5.00	4.48	89.6	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	4.84	96.8	59.0-130	
1,2-Dibromoethane	5.00	5.05	101	74.0-128	
Dibromomethane	5.00	5.24	105	75.0-122	
1,2-Dichlorobenzene	5.00	5.56	111	76.0-124	
1,3-Dichlorobenzene	5.00	4.96	99.2	76.0-125	
1,4-Dichlorobenzene	5.00	4.79	95.8	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	3.54	70.8	45.0-143	
Dichlorodifluoromethane	5.00	6.08	122	43.0-156	
1,1-Dichloroethane	5.00	5.04	101	70.0-127	
1,2-Dichloroethane	5.00	5.55	111	65.0-131	
1,1-Dichloroethene	5.00	5.37	107	65.0-131	
cis-1,2-Dichloroethene	5.00	5.34	107	73.0-125	
trans-1,2-Dichloroethene	5.00	5.08	102	71.0-125	
1,2-Dichloropropane	5.00	4.90	98.0	74.0-125	
1,1-Dichloropropene	5.00	5.46	109	73.0-125	
1,3-Dichloropropane	5.00	4.96	99.2	80.0-125	
cis-1,3-Dichloropropene	5.00	5.22	104	76.0-127	
trans-1,3-Dichloropropene	5.00	4.37	87.4	73.0-127	
2,2-Dichloropropane	5.00	6.33	127	59.0-135	
Di-isopropyl ether	5.00	4.81	96.2	60.0-136	
Ethylbenzene	5.00	4.93	98.6	74.0-126	
Ethyl ether	5.00	7.81	156	64.0-137	J4

Laboratory Control Sample (LCS)

(LCS) R3595003-1 11/19/20 06:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexachloro-1,3-butadiene	5.00	5.69	114	57.0-150	
Iodomethane	25.0	28.1	112	74.0-134	
Isopropylbenzene	5.00	4.33	86.6	72.0-127	
p-Isopropyltoluene	5.00	5.00	100	72.0-133	
2-Butanone (MEK)	25.0	24.0	96.0	30.0-160	
Methylene Chloride	5.00	4.30	86.0	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	19.7	78.8	56.0-143	
Methyl tert-butyl ether	5.00	5.84	117	66.0-132	
Naphthalene	5.00	4.85	97.0	59.0-130	
n-Propylbenzene	5.00	4.46	89.2	74.0-126	
Styrene	5.00	4.14	82.8	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	5.26	105	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	4.00	80.0	68.0-128	
Tetrachloroethene	5.00	4.57	91.4	70.0-136	
Tetrahydrofuran	5.00	4.24	84.8	37.0-146	
Toluene	5.00	3.89	77.8	75.0-121	
1,1,2-Trichlorotrifluoroethane	5.00	4.92	98.4	61.0-139	
1,2,3-Trichlorobenzene	5.00	5.24	105	59.0-139	
1,2,4-Trichlorobenzene	5.00	5.37	107	62.0-137	
1,1,1-Trichloroethane	5.00	6.03	121	69.0-126	
1,1,2-Trichloroethane	5.00	4.39	87.8	78.0-123	
Trichloroethene	5.00	5.74	115	76.0-126	
Trichlorofluoromethane	5.00	6.72	134	61.0-142	
1,2,3-Trichloropropane	5.00	4.96	99.2	67.0-129	
1,2,3-Trimethylbenzene	5.00	4.70	94.0	74.0-124	
1,2,4-Trimethylbenzene	5.00	4.80	96.0	70.0-126	
1,3,5-Trimethylbenzene	5.00	4.80	96.0	73.0-127	
Vinyl chloride	5.00	6.76	135	63.0-134	J4
Xylenes, Total	15.0	13.5	90.0	72.0-127	
Allyl chloride	25.0	24.6	98.4	70.0-131	
(S) Toluene-d8			*85.4*	*75.0-131*	
(S) 4-Bromofluorobenzene			*88.1*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*113*	*70.0-130*	

Method Blank (MB)

(MB) R3595451-2 11/20/20 10:12

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

Method Blank (MB)

(MB) R3595451-2 11/20/20 10:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*102*			*75.0-131*
(S) 4-Bromofluorobenzene	*102*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*93.2*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3595451-1 11/20/20 09:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	12.6	50.4	10.0-160	
Acrylonitrile	25.0	16.2	64.8	45.0-153	
Benzene	5.00	5.17	103	70.0-123	
Bromobenzene	5.00	4.42	88.4	73.0-121	
Bromodichloromethane	5.00	5.20	104	73.0-121	
Bromoform	5.00	4.56	91.2	64.0-132	
Bromomethane	5.00	7.28	146	56.0-147	
n-Butylbenzene	5.00	5.19	104	68.0-135	
sec-Butylbenzene	5.00	5.00	100	74.0-130	
tert-Butylbenzene	5.00	4.85	97.0	75.0-127	
Carbon tetrachloride	5.00	5.42	108	66.0-128	
Chlorobenzene	5.00	4.87	97.4	76.0-128	
Chlorodibromomethane	5.00	4.75	95.0	74.0-127	
Chloroethane	5.00	4.81	96.2	61.0-134	
Chloroform	5.00	5.22	104	72.0-123	
Chloromethane	5.00	3.65	73.0	51.0-138	
2-Chlorotoluene	5.00	4.51	90.2	75.0-124	
4-Chlorotoluene	5.00	4.65	93.0	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	4.31	86.2	59.0-130	
1,2-Dibromoethane	5.00	4.87	97.4	74.0-128	
Dibromomethane	5.00	5.32	106	75.0-122	
1,2-Dichlorobenzene	5.00	4.77	95.4	76.0-124	
1,3-Dichlorobenzene	5.00	4.78	95.6	76.0-125	
1,4-Dichlorobenzene	5.00	4.81	96.2	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	3.64	72.8	45.0-143	
Dichlorodifluoromethane	5.00	5.40	108	43.0-156	
1,1-Dichloroethane	5.00	4.16	83.2	70.0-127	
1,2-Dichloroethane	5.00	4.21	84.2	65.0-131	
1,1-Dichloroethene	5.00	3.99	79.8	65.0-131	
cis-1,2-Dichloroethene	5.00	5.22	104	73.0-125	
trans-1,2-Dichloroethene	5.00	4.87	97.4	71.0-125	
1,2-Dichloropropane	5.00	4.05	81.0	74.0-125	
1,1-Dichloropropene	5.00	5.35	107	73.0-125	
1,3-Dichloropropane	5.00	4.92	98.4	80.0-125	
cis-1,3-Dichloropropene	5.00	5.22	104	76.0-127	
trans-1,3-Dichloropropene	5.00	4.87	97.4	73.0-127	
2,2-Dichloropropane	5.00	5.77	115	59.0-135	
Di-isopropyl ether	5.00	3.29	65.8	60.0-136	
Ethylbenzene	5.00	5.06	101	74.0-126	
Ethyl ether	5.00	3.84	76.8	64.0-137	

Laboratory Control Sample (LCS)

(LCS) R3595451-1 11/20/20 09:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexachloro-1,3-butadiene	5.00	4.93	98.6	57.0-150	
Iodomethane	25.0	24.1	96.4	74.0-134	
Isopropylbenzene	5.00	4.88	97.6	72.0-127	
p-Isopropyltoluene	5.00	4.96	99.2	72.0-133	
2-Butanone (MEK)	25.0	16.5	66.0	30.0-160	
Methylene Chloride	5.00	4.21	84.2	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	16.3	65.2	56.0-143	
Methyl tert-butyl ether	5.00	5.18	104	66.0-132	
Naphthalene	5.00	4.58	91.6	59.0-130	
n-Propylbenzene	5.00	4.79	95.8	74.0-126	
Styrene	5.00	4.73	94.6	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	4.78	95.6	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	4.69	93.8	68.0-128	
Tetrachloroethene	5.00	4.91	98.2	70.0-136	
Tetrahydrofuran	5.00	2.87	57.4	37.0-146	
Toluene	5.00	4.77	95.4	75.0-121	
1,2,3-Trichlorobenzene	5.00	4.60	92.0	59.0-139	
1,2,4-Trichlorobenzene	5.00	4.91	98.2	62.0-137	
1,1,1-Trichloroethane	5.00	5.12	102	69.0-126	
1,1,2-Trichloroethane	5.00	5.05	101	78.0-123	
Trichloroethene	5.00	5.02	100	76.0-126	
Trichlorofluoromethane	5.00	4.67	93.4	61.0-142	
1,2,3-Trichloropropane	5.00	4.90	98.0	67.0-129	
1,2,3-Trimethylbenzene	5.00	4.68	93.6	74.0-124	
1,2,4-Trimethylbenzene	5.00	4.77	95.4	70.0-126	
1,3,5-Trimethylbenzene	5.00	4.81	96.2	73.0-127	
Vinyl chloride	5.00	5.33	107	63.0-134	
Xylenes, Total	15.0	14.3	95.3	72.0-127	
Allyl chloride	25.0	24.3	97.2	70.0-131	
(S) Toluene-d8			*98.9*	*75.0-131*	
(S) 4-Bromofluorobenzene			*102*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*94.9*	*70.0-130*	

Method Blank (MB)

(MB) R3595452-2 11/20/20 10:12

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

Method Blank (MB)

(MB) R3595452-2 11/20/20 10:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*102*			*75.0-131*
(S) 4-Bromofluorobenzene	*102*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*93.2*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3595452-1 11/20/20 09:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	12.6	50.4	10.0-160	
Acrylonitrile	25.0	16.2	64.8	45.0-153	
Benzene	5.00	5.17	103	70.0-123	
Bromobenzene	5.00	4.42	88.4	73.0-121	
Bromodichloromethane	5.00	5.20	104	73.0-121	
Bromoform	5.00	4.56	91.2	64.0-132	
Bromomethane	5.00	7.28	146	56.0-147	
n-Butylbenzene	5.00	5.19	104	68.0-135	
sec-Butylbenzene	5.00	5.00	100	74.0-130	
tert-Butylbenzene	5.00	4.85	97.0	75.0-127	
Carbon tetrachloride	5.00	5.42	108	66.0-128	
Chlorobenzene	5.00	4.87	97.4	76.0-128	
Chlorodibromomethane	5.00	4.75	95.0	74.0-127	
Chloroethane	5.00	4.81	96.2	61.0-134	
Chloroform	5.00	5.22	104	72.0-123	
Chloromethane	5.00	3.65	73.0	51.0-138	
2-Chlorotoluene	5.00	4.51	90.2	75.0-124	
4-Chlorotoluene	5.00	4.65	93.0	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	4.31	86.2	59.0-130	
1,2-Dibromoethane	5.00	4.87	97.4	74.0-128	
Dibromomethane	5.00	5.32	106	75.0-122	
1,2-Dichlorobenzene	5.00	4.77	95.4	76.0-124	
1,3-Dichlorobenzene	5.00	4.78	95.6	76.0-125	
1,4-Dichlorobenzene	5.00	4.81	96.2	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	3.64	72.8	45.0-143	
Dichlorodifluoromethane	5.00	5.40	108	43.0-156	
1,1-Dichloroethane	5.00	4.16	83.2	70.0-127	
1,2-Dichloroethane	5.00	4.21	84.2	65.0-131	
1,1-Dichloroethene	5.00	3.99	79.8	65.0-131	
cis-1,2-Dichloroethene	5.00	5.22	104	73.0-125	
trans-1,2-Dichloroethene	5.00	4.87	97.4	71.0-125	
1,2-Dichloropropane	5.00	4.05	81.0	74.0-125	
1,1-Dichloropropene	5.00	5.35	107	73.0-125	
1,3-Dichloropropane	5.00	4.92	98.4	80.0-125	
cis-1,3-Dichloropropene	5.00	5.22	104	76.0-127	
trans-1,3-Dichloropropene	5.00	4.87	97.4	73.0-127	
2,2-Dichloropropane	5.00	5.77	115	59.0-135	
Di-isopropyl ether	5.00	3.29	65.8	60.0-136	
Ethylbenzene	5.00	5.06	101	74.0-126	
Ethyl ether	5.00	3.84	76.8	64.0-137	

Laboratory Control Sample (LCS)

(LCS) R3595452-1 11/20/20 09:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexachloro-1,3-butadiene	5.00	4.93	98.6	57.0-150	
Iodomethane	25.0	24.1	96.4	74.0-134	
Isopropylbenzene	5.00	4.88	97.6	72.0-127	
p-Isopropyltoluene	5.00	4.96	99.2	72.0-133	
2-Butanone (MEK)	25.0	16.5	66.0	30.0-160	
Methylene Chloride	5.00	4.21	84.2	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	16.3	65.2	56.0-143	
Methyl tert-butyl ether	5.00	5.18	104	66.0-132	
Naphthalene	5.00	4.58	91.6	59.0-130	
n-Propylbenzene	5.00	4.79	95.8	74.0-126	
Styrene	5.00	4.73	94.6	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	4.78	95.6	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	4.69	93.8	68.0-128	
Tetrachloroethene	5.00	4.91	98.2	70.0-136	
Tetrahydrofuran	5.00	2.87	57.4	37.0-146	
Toluene	5.00	4.77	95.4	75.0-121	
1,2,3-Trichlorobenzene	5.00	4.60	92.0	59.0-139	
1,2,4-Trichlorobenzene	5.00	4.91	98.2	62.0-137	
1,1,1-Trichloroethane	5.00	5.12	102	69.0-126	
1,1,2-Trichloroethane	5.00	5.05	101	78.0-123	
Trichloroethene	5.00	5.02	100	76.0-126	
Trichlorofluoromethane	5.00	4.67	93.4	61.0-142	
1,2,3-Trichloropropane	5.00	4.90	98.0	67.0-129	
1,2,3-Trimethylbenzene	5.00	4.68	93.6	74.0-124	
1,2,4-Trimethylbenzene	5.00	4.77	95.4	70.0-126	
1,3,5-Trimethylbenzene	5.00	4.81	96.2	73.0-127	
Vinyl chloride	5.00	5.33	107	63.0-134	
Xylenes, Total	15.0	14.3	95.3	72.0-127	
Allyl chloride	25.0	24.3	97.2	70.0-131	
(S) Toluene-d8			*98.9*	*75.0-131*	
(S) 4-Bromofluorobenzene			*102*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*94.9*	*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) R3595774-2 11/21/20 06:06

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*103*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*

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

(LCS) R3595774-1 11/21/20 05:28 • (LCSD) R3595774-3 11/21/20 08:30

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	%	%	%			%	%
1,1,2-Trichlorotrifluoroethane	5.00	4.94	4.81	98.8	96.2	61.0-139			2.67	20
(S) Toluene-d8				*104*	*105*	*75.0-131*				
(S) 4-Bromofluorobenzene				*105*	*104*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*112*	*111*	*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.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C4	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Data is likely to show a low bias concerning the result.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J4	The associated batch QC was outside the established quality control range for accuracy.

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	LAO00356
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

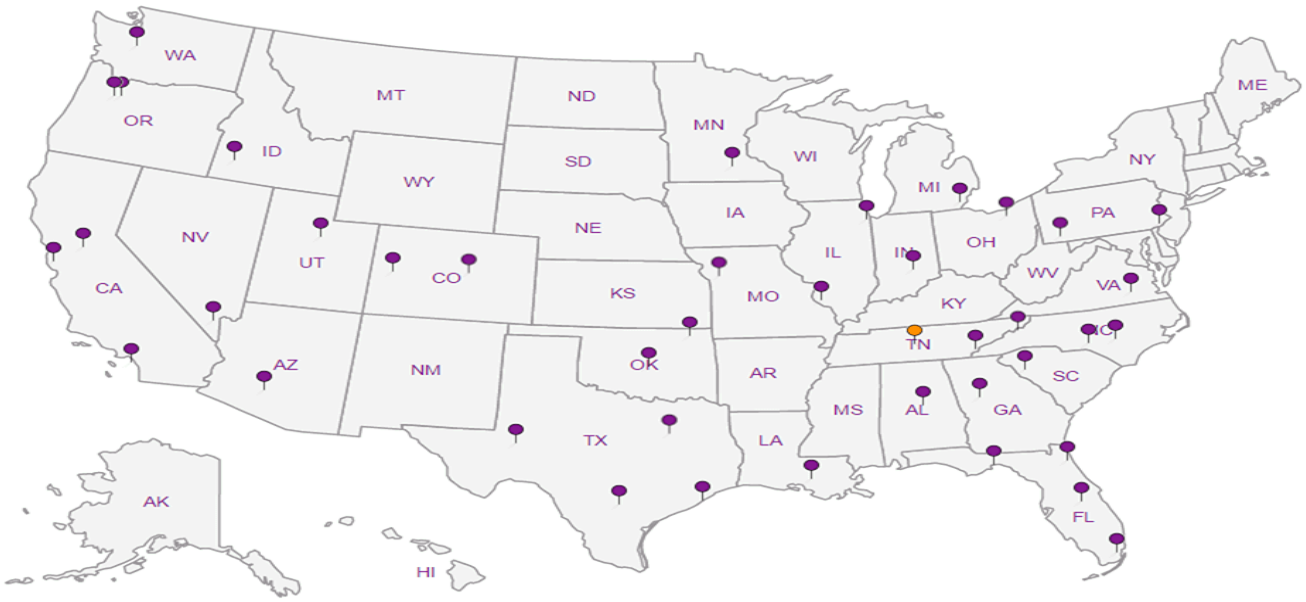
Third Party Federal Accreditations

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.



CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: J091

ALL SHADED AREAS are for LAB USE ONLY

Company: **PES Environmental, Inc.**	Billing Information: **Attn: Accounts Payable 1215 4th Ave STE 1350, Seattle, WA 98161**
Address: **1215 4th Ave STE 1350, Seattle, WA 98161**	
Report To: **Bill Haldeman/Brian O'Neal**	Email To: **bhaldeman@pesenv.com; boneal@pesenv.com**
Copy To: **Kim Vik, Shannon McKernan, Karsten Springstead**	Site Collection Info/Address: **700 Dexter Ave N**
Customer Project Name/Number: American Linen **1413.001.02.501E**	State: **WA** / County/City: **King/Seattle** Time Zone Collected: [x]PT [ ]MT [ ]CT [ ]ET
Phone: 206-529-3980 Email: **agilvezan@pesenv.com**	Site/Facility ID #: **1413.001.02.501E** Compliance Monitoring? [x] Yes [ ] No
Collected By (print): HRC/BLH	Purchase Order # : **1413.001.02.501E** Quote #: **PESENVSWA-ALP** DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: **standard TAT** Immediately Packed on Ice: [x] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)	Field Filtered (if applicable): [ ] Yes [X] No Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Lab Project Manager:

Analyses

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	*NO3, SO4, Cl* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM (RSK175LL) 40mlAmb-HCl	TOC 250mlAmb-HCl or 250mlHDPE-HCl (2)	Total Fe, Mn 6020 250mlHDPE-HNO3 (2)	VOCs (8260ULLC)	GRO (NWTPH-Gx)	SO4			Lab Sample # / Comments
MW-329-110920	GW	Grab	11/9/20	930				3						X					L1284447 -01
MW126-110920	GW	Grab		930				8		X	X	X	X	X		X			-02
MW128-110920	GW	Grab		1055				3						X					-03
MW-327-110920	GW	Grab		1140				3						X					-04
MW-328-110920	GW	Grab		1305				3						X					-05
MW-154-110920	GW	Grab		1355				3		X	X	X	X	X		X			-06
MW-341-110920	GW	Grab		1403				3						X					-07
MW-339-110920	GW	Grab		1448				3						X					-08
MW-153-110920	GW	Grab		1525				8		X	X	X	X	X		X			-09
MW-340-110920	GW	Grab		1538				3						X					-10

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Sample pH Acceptable	Y	N	NA
Sulfide Present	Y	N	NA

Cl Strips: _____ pH Strips: _____ Lead Acetate Strips: _____

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 192208057271

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: IR#7

Cooler 1 Temp Upon Receipt: 1.7 oC

Cooler 1 Therm Corr. Factor: +0.0 oC

Cooler 1 Corrected Temp: 1.7 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time: 11/10/20 1600	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 11/20 0945	PM: PB:

Trip Blank Received: Y N NA

HCl MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 2

CHAIN-OF-CUSTODY Analytical Request Document

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: **PES Environmental, Inc.**	Billing Information: **Attn: Accounts Payable 1215 4th Ave STE 1350, Seattle, WA 98161**
Address: **1215 4th Ave STE 1350, Seattle, WA 98161**	
Report To: **Bill Haldeman/Brian O'Neal**	Email To: **bhaldeman@pesenv.com; boneal@pesenv.com**
Copy To: **Kim Vik, Shannon McKernan, Karsten Springstead**	Site Collection Info/Address: **700 Dexter Ave N**
Customer Project Name/Number: American Linen **1413.001.02.501E**	State: **WA** / County/City: **King/Seattle** / Time Zone Collected: [x]PT [ ]MT [ ]CT [ ]ET
Phone: **206-529-3980** Email: **agilvezan@pesenv.com**	Site/Facility ID #: **1413.001.02.501E** / Compliance Monitoring? [x] Yes [ ] No
Collected By (print): HRC/BLH	Purchase Order # : **1413.001.02.501E** Quote #: **PESENVSWA-ALP** / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard TAT / Immediately Packed on Ice: [x] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [X] No / Analysis:

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	*NO3, SO4, Cl* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM (RSK175LL) 40mlAmb-HCl	TOC 250mlAmb-HCl or 250mlHDPE-HCl	Total Fe, Mn 6020 250mlHDPE-HNO3	VOCs (8260ULLC)	GRO (NWTPH-Gx)	SO4			Lab Sample # / Comments
MW-147-111020	GW	Grab	11/10/20	0950				11		X	X	X	X	X	X	X			L1284147
MW-337-111020	GW	Grab		1000				3						X					-11
MW-338-111020	GW	Grab		1045				3						X					-12
MW-942-111020	GW	Grab		1045				8		X	X	X	X	X		X			-13
MW-146-111020	GW	Grab		1130				11		X	X	X	X	X	X	X			-14
MW-317-111020	GW	Grab		1250				3						X					-15
MW106-111020	GW	Grab		1400				3		X	X	X	X	X		X			-16
GEI-MW-1-111020	GW	Grab		1435				3						X	X				-17
TB-111020	GW	Grab		1500				2						X	X				-18
	GW	Grab																	-19

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: 1.7 oC
Cooler 1 Therm Corr. Factor: 0.0 oC
Cooler 1 Corrected Temp: 1.7 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time: 11/10/20 1600	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 11/11/20 0945

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCl MeOH TSP Other

Non Conformance(s): YES / NO

Page: 2 of: 2

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

November 24, 2020

PES Environmental, Inc.- WA

Sample Delivery Group:	L1285153
Samples Received:	11/12/2020
Project Number:	1413.001.02.501E
Description:	American Linen
Site:	1413.001.02.501E
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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FMW-129-111020 L1285153-01 GW

Collected by: Ben Hecht | Collected date/time: 11/10/20 16:30 | Received date/time: 11/12/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1580294	1	11/23/20 21:44	11/23/20 21:44	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1580390	1	11/22/20 02:42	11/22/20 02:42	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1577486	1	11/17/20 23:09	11/19/20 17:51	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1578180	1	11/19/20 12:01	11/19/20 12:01	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578897	1	11/19/20 11:44	11/19/20 11:44	ADM	Mt. Juliet, TN

MW-159-111120 L1285153-02 GW

Collected by: Ben Hecht | Collected date/time: 11/11/20 10:18 | Received date/time: 11/12/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1580294	1	11/23/20 22:16	11/23/20 22:16	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1580390	1	11/22/20 03:12	11/22/20 03:12	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1577486	1	11/17/20 23:09	11/19/20 17:54	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1578180	1	11/19/20 12:04	11/19/20 12:04	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578897	1	11/19/20 12:04	11/19/20 12:04	ADM	Mt. Juliet, TN

MW-148-111120 L1285153-03 GW

Collected by: Ben Hecht | Collected date/time: 11/11/20 10:20 | Received date/time: 11/12/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1580294	5	11/23/20 22:48	11/23/20 22:48	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1580390	1	11/22/20 03:25	11/22/20 03:25	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1577486	1	11/17/20 23:09	11/19/20 17:58	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1578180	1	11/19/20 12:06	11/19/20 12:06	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578897	1	11/19/20 12:25	11/19/20 12:25	ADM	Mt. Juliet, TN

MW-155-111120 L1285153-04 GW

Collected by: Ben Hecht | Collected date/time: 11/11/20 12:05 | Received date/time: 11/12/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1580294	1	11/23/20 23:04	11/23/20 23:04	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1581104	1	11/23/20 13:23	11/23/20 13:23	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1577486	1	11/17/20 23:09	11/19/20 18:21	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1578180	1	11/19/20 12:09	11/19/20 12:09	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578897	1	11/19/20 12:45	11/19/20 12:45	ADM	Mt. Juliet, TN

MW-156-111120 L1285153-05 GW

Collected by: Ben Hecht | Collected date/time: 11/11/20 12:55 | Received date/time: 11/12/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1580294	5	11/24/20 11:32	11/24/20 11:32	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1580392	1	11/23/20 01:34	11/23/20 01:34	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1577486	1	11/17/20 23:09	11/19/20 18:24	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1578180	1	11/19/20 12:13	11/19/20 12:13	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578897	1	11/19/20 13:05	11/19/20 13:05	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1579283	10	11/20/20 12:47	11/20/20 12:47	BMB	Mt. Juliet, TN

MW119-111120 L1285153-06 GW

Collected by	Collected date/time	Received date/time
Ben Hecht	11/11/20 13:35	11/12/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1580294	1	11/23/20 23:35	11/23/20 23:35	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1580392	1	11/23/20 02:21	11/23/20 02:21	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1577486	1	11/17/20 23:09	11/19/20 18:27	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1578180	1	11/19/20 13:20	11/19/20 13:20	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578897	1	11/19/20 13:25	11/19/20 13:25	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1579425	1	11/20/20 11:47	11/20/20 11:47	BMB	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

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	81200		594	5000	1	11/23/2020 21:44	WG1580294

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1610		102	1000	1	11/22/2020 02:42	WG1580390

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	9180		28.1	100	1	11/19/2020 17:51	WG1577486
Manganese	438		0.704	5.00	1	11/19/2020 17:51	WG1577486

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	267		0.287	0.678	1	11/19/2020 12:01	WG1578180
Ethane	22.3		0.296	1.29	1	11/19/2020 12:01	WG1578180
Ethene	U		0.422	1.27	1	11/19/2020 12:01	WG1578180

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	C3	0.548	1.00	1	11/19/2020 11:44	WG1578897
Acrylonitrile	U		0.0760	0.500	1	11/19/2020 11:44	WG1578897
Benzene	U		0.0160	0.0400	1	11/19/2020 11:44	WG1578897
Bromobenzene	U		0.0420	0.500	1	11/19/2020 11:44	WG1578897
Bromodichloromethane	U		0.0315	0.100	1	11/19/2020 11:44	WG1578897
Bromoform	U		0.239	1.00	1	11/19/2020 11:44	WG1578897
Bromomethane	U		0.148	0.500	1	11/19/2020 11:44	WG1578897
n-Butylbenzene	U		0.153	0.500	1	11/19/2020 11:44	WG1578897
sec-Butylbenzene	U		0.101	0.500	1	11/19/2020 11:44	WG1578897
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2020 11:44	WG1578897
Carbon tetrachloride	U	J4	0.0432	0.200	1	11/19/2020 11:44	WG1578897
Chlorobenzene	U		0.0229	0.100	1	11/19/2020 11:44	WG1578897
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2020 11:44	WG1578897
Chloroethane	U	J4	0.0432	0.200	1	11/19/2020 11:44	WG1578897
Chloroform	U		0.0166	0.100	1	11/19/2020 11:44	WG1578897
Chloromethane	U		0.0556	0.500	1	11/19/2020 11:44	WG1578897
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2020 11:44	WG1578897
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2020 11:44	WG1578897
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2020 11:44	WG1578897
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2020 11:44	WG1578897
Dibromomethane	U		0.0400	0.200	1	11/19/2020 11:44	WG1578897
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2020 11:44	WG1578897
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2020 11:44	WG1578897
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2020 11:44	WG1578897
Dichlorodifluoromethane	U		0.0327	0.100	1	11/19/2020 11:44	WG1578897
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2020 11:44	WG1578897
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2020 11:44	WG1578897
1,1-Dichloroethene	0.219		0.0200	0.100	1	11/19/2020 11:44	WG1578897
cis-1,2-Dichloroethene	58.8		0.0276	0.100	1	11/19/2020 11:44	WG1578897
trans-1,2-Dichloroethene	0.135	J	0.0572	0.200	1	11/19/2020 11:44	WG1578897
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2020 11:44	WG1578897

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2020 11:44	WG1578897
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2020 11:44	WG1578897
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2020 11:44	WG1578897
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2020 11:44	WG1578897
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2020 11:44	WG1578897
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2020 11:44	WG1578897
Ethylbenzene	U		0.0212	0.100	1	11/19/2020 11:44	WG1578897
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/19/2020 11:44	WG1578897
Isopropylbenzene	U		0.0345	0.100	1	11/19/2020 11:44	WG1578897
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2020 11:44	WG1578897
2-Butanone (MEK)	U		0.500	1.00	1	11/19/2020 11:44	WG1578897
Methylene Chloride	U		0.265	1.00	1	11/19/2020 11:44	WG1578897
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/19/2020 11:44	WG1578897
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2020 11:44	WG1578897
Naphthalene	U		0.124	0.500	1	11/19/2020 11:44	WG1578897
n-Propylbenzene	U		0.0472	0.200	1	11/19/2020 11:44	WG1578897
Styrene	U		0.109	0.500	1	11/19/2020 11:44	WG1578897
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2020 11:44	WG1578897
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2020 11:44	WG1578897
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2020 11:44	WG1578897
Tetrachloroethene	6.43		0.0280	0.100	1	11/19/2020 11:44	WG1578897
Toluene	0.136	C3 J	0.0500	0.200	1	11/19/2020 11:44	WG1578897
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2020 11:44	WG1578897
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2020 11:44	WG1578897
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2020 11:44	WG1578897
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2020 11:44	WG1578897
Trichloroethene	22.3		0.0160	0.0400	1	11/19/2020 11:44	WG1578897
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2020 11:44	WG1578897
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2020 11:44	WG1578897
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2020 11:44	WG1578897
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2020 11:44	WG1578897
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2020 11:44	WG1578897
Vinyl chloride	8.49	C5 J4	0.0273	0.100	1	11/19/2020 11:44	WG1578897
Xylenes, Total	U		0.191	0.260	1	11/19/2020 11:44	WG1578897
Ethyl Ether	0.0809	J J4	0.0170	0.100	1	11/19/2020 11:44	WG1578897
Tetrahydrofuran	U		0.0900	0.500	1	11/19/2020 11:44	WG1578897
Iodomethane	U		0.242	0.500	1	11/19/2020 11:44	WG1578897
Allyl chloride	U		0.580	1.00	1	11/19/2020 11:44	WG1578897
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2020 11:44	WG1578897
(S) Toluene-d8	*107*			*75.0-131*		*11/19/2020 11:44*	WG1578897
(S) 4-Bromofluorobenzene	*134*			*67.0-138*		*11/19/2020 11:44*	WG1578897
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*11/19/2020 11:44*	WG1578897

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

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	12600		594	5000	1	11/23/2020 22:16	WG1580294

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	11/22/2020 03:12	WG1580390

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	7940		28.1	100	1	11/19/2020 17:54	WG1577486
Manganese	3270		0.704	5.00	1	11/19/2020 17:54	WG1577486

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	2900		0.287	0.678	1	11/19/2020 12:04	WG1578180
Ethane	27.2		0.296	1.29	1	11/19/2020 12:04	WG1578180
Ethene	U		0.422	1.27	1	11/19/2020 12:04	WG1578180

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.27	B C3	0.548	1.00	1	11/19/2020 12:04	WG1578897
Acrylonitrile	U		0.0760	0.500	1	11/19/2020 12:04	WG1578897
Benzene	U		0.0160	0.0400	1	11/19/2020 12:04	WG1578897
Bromobenzene	U		0.0420	0.500	1	11/19/2020 12:04	WG1578897
Bromodichloromethane	U		0.0315	0.100	1	11/19/2020 12:04	WG1578897
Bromoform	U		0.239	1.00	1	11/19/2020 12:04	WG1578897
Bromomethane	U		0.148	0.500	1	11/19/2020 12:04	WG1578897
n-Butylbenzene	U		0.153	0.500	1	11/19/2020 12:04	WG1578897
sec-Butylbenzene	U		0.101	0.500	1	11/19/2020 12:04	WG1578897
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2020 12:04	WG1578897
Carbon tetrachloride	U	J4	0.0432	0.200	1	11/19/2020 12:04	WG1578897
Chlorobenzene	U		0.0229	0.100	1	11/19/2020 12:04	WG1578897
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2020 12:04	WG1578897
Chloroethane	U	J4	0.0432	0.200	1	11/19/2020 12:04	WG1578897
Chloroform	U		0.0166	0.100	1	11/19/2020 12:04	WG1578897
Chloromethane	U		0.0556	0.500	1	11/19/2020 12:04	WG1578897
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2020 12:04	WG1578897
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2020 12:04	WG1578897
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2020 12:04	WG1578897
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2020 12:04	WG1578897
Dibromomethane	U		0.0400	0.200	1	11/19/2020 12:04	WG1578897
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2020 12:04	WG1578897
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2020 12:04	WG1578897
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2020 12:04	WG1578897
Dichlorodifluoromethane	U		0.0327	0.100	1	11/19/2020 12:04	WG1578897
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2020 12:04	WG1578897
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2020 12:04	WG1578897
1,1-Dichloroethene	U		0.0200	0.100	1	11/19/2020 12:04	WG1578897
cis-1,2-Dichloroethene	0.561		0.0276	0.100	1	11/19/2020 12:04	WG1578897
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2020 12:04	WG1578897
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2020 12:04	WG1578897

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2020 12:04	WG1578897
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2020 12:04	WG1578897
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2020 12:04	WG1578897
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2020 12:04	WG1578897
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2020 12:04	WG1578897
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2020 12:04	WG1578897
Ethylbenzene	U		0.0212	0.100	1	11/19/2020 12:04	WG1578897
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/19/2020 12:04	WG1578897
Isopropylbenzene	U		0.0345	0.100	1	11/19/2020 12:04	WG1578897
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2020 12:04	WG1578897
2-Butanone (MEK)	U		0.500	1.00	1	11/19/2020 12:04	WG1578897
Methylene Chloride	U		0.265	1.00	1	11/19/2020 12:04	WG1578897
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/19/2020 12:04	WG1578897
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2020 12:04	WG1578897
Naphthalene	U		0.124	0.500	1	11/19/2020 12:04	WG1578897
n-Propylbenzene	U		0.0472	0.200	1	11/19/2020 12:04	WG1578897
Styrene	U		0.109	0.500	1	11/19/2020 12:04	WG1578897
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2020 12:04	WG1578897
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2020 12:04	WG1578897
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2020 12:04	WG1578897
Tetrachloroethene	U		0.0280	0.100	1	11/19/2020 12:04	WG1578897
Toluene	0.457	C3	0.0500	0.200	1	11/19/2020 12:04	WG1578897
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2020 12:04	WG1578897
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2020 12:04	WG1578897
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2020 12:04	WG1578897
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2020 12:04	WG1578897
Trichloroethene	U		0.0160	0.0400	1	11/19/2020 12:04	WG1578897
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2020 12:04	WG1578897
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2020 12:04	WG1578897
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2020 12:04	WG1578897
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2020 12:04	WG1578897
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2020 12:04	WG1578897
Vinyl chloride	0.214	C5 J4	0.0273	0.100	1	11/19/2020 12:04	WG1578897
Xylenes, Total	U		0.191	0.260	1	11/19/2020 12:04	WG1578897
Ethyl Ether	U	J4	0.0170	0.100	1	11/19/2020 12:04	WG1578897
Tetrahydrofuran	U		0.0900	0.500	1	11/19/2020 12:04	WG1578897
Iodomethane	U		0.242	0.500	1	11/19/2020 12:04	WG1578897
Allyl chloride	U		0.580	1.00	1	11/19/2020 12:04	WG1578897
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2020 12:04	WG1578897
(S) Toluene-d8	*147*	J1		*75.0-131*		*11/19/2020 12:04*	WG1578897
(S) 4-Bromofluorobenzene	*110*			*67.0-138*		*11/19/2020 12:04*	WG1578897
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*11/19/2020 12:04*	WG1578897

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	60000		2970	25000	5	11/23/2020 22:48	WG1580294

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)	1020		102	1000	1	11/22/2020 03:25	WG1580390

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	4270		28.1	100	1	11/19/2020 17:58	WG1577486
Manganese	341		0.704	5.00	1	11/19/2020 17:58	WG1577486

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	544		0.287	0.678	1	11/19/2020 12:06	WG1578180
Ethane	U		0.296	1.29	1	11/19/2020 12:06	WG1578180
Ethene	U		0.422	1.27	1	11/19/2020 12:06	WG1578180

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	C3	0.548	1.00	1	11/19/2020 12:25	WG1578897
Acrylonitrile	U		0.0760	0.500	1	11/19/2020 12:25	WG1578897
Benzene	U		0.0160	0.0400	1	11/19/2020 12:25	WG1578897
Bromobenzene	U		0.0420	0.500	1	11/19/2020 12:25	WG1578897
Bromodichloromethane	U		0.0315	0.100	1	11/19/2020 12:25	WG1578897
Bromoform	U		0.239	1.00	1	11/19/2020 12:25	WG1578897
Bromomethane	U		0.148	0.500	1	11/19/2020 12:25	WG1578897
n-Butylbenzene	U		0.153	0.500	1	11/19/2020 12:25	WG1578897
sec-Butylbenzene	U		0.101	0.500	1	11/19/2020 12:25	WG1578897
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2020 12:25	WG1578897
Carbon tetrachloride	U	J4	0.0432	0.200	1	11/19/2020 12:25	WG1578897
Chlorobenzene	U		0.0229	0.100	1	11/19/2020 12:25	WG1578897
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2020 12:25	WG1578897
Chloroethane	U	J4	0.0432	0.200	1	11/19/2020 12:25	WG1578897
Chloroform	U		0.0166	0.100	1	11/19/2020 12:25	WG1578897
Chloromethane	U		0.0556	0.500	1	11/19/2020 12:25	WG1578897
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2020 12:25	WG1578897
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2020 12:25	WG1578897
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2020 12:25	WG1578897
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2020 12:25	WG1578897
Dibromomethane	U		0.0400	0.200	1	11/19/2020 12:25	WG1578897
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2020 12:25	WG1578897
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2020 12:25	WG1578897
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2020 12:25	WG1578897
Dichlorodifluoromethane	U		0.0327	0.100	1	11/19/2020 12:25	WG1578897
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2020 12:25	WG1578897
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2020 12:25	WG1578897
1,1-Dichloroethene	U		0.0200	0.100	1	11/19/2020 12:25	WG1578897
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/19/2020 12:25	WG1578897
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2020 12:25	WG1578897
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2020 12:25	WG1578897

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2020 12:25	WG1578897
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2020 12:25	WG1578897
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2020 12:25	WG1578897
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2020 12:25	WG1578897
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2020 12:25	WG1578897
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2020 12:25	WG1578897
Ethylbenzene	U		0.0212	0.100	1	11/19/2020 12:25	WG1578897
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/19/2020 12:25	WG1578897
Isopropylbenzene	U		0.0345	0.100	1	11/19/2020 12:25	WG1578897
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2020 12:25	WG1578897
2-Butanone (MEK)	U		0.500	1.00	1	11/19/2020 12:25	WG1578897
Methylene Chloride	U		0.265	1.00	1	11/19/2020 12:25	WG1578897
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/19/2020 12:25	WG1578897
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2020 12:25	WG1578897
Naphthalene	U		0.124	0.500	1	11/19/2020 12:25	WG1578897
n-Propylbenzene	U		0.0472	0.200	1	11/19/2020 12:25	WG1578897
Styrene	U		0.109	0.500	1	11/19/2020 12:25	WG1578897
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2020 12:25	WG1578897
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2020 12:25	WG1578897
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2020 12:25	WG1578897
Tetrachloroethene	U		0.0280	0.100	1	11/19/2020 12:25	WG1578897
Toluene	0.310	C3	0.0500	0.200	1	11/19/2020 12:25	WG1578897
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2020 12:25	WG1578897
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2020 12:25	WG1578897
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2020 12:25	WG1578897
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2020 12:25	WG1578897
Trichloroethene	U		0.0160	0.0400	1	11/19/2020 12:25	WG1578897
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2020 12:25	WG1578897
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2020 12:25	WG1578897
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2020 12:25	WG1578897
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2020 12:25	WG1578897
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2020 12:25	WG1578897
Vinyl chloride	U	J4	0.0273	0.100	1	11/19/2020 12:25	WG1578897
Xylenes, Total	U		0.191	0.260	1	11/19/2020 12:25	WG1578897
Ethyl Ether	U	J4	0.0170	0.100	1	11/19/2020 12:25	WG1578897
Tetrahydrofuran	U		0.0900	0.500	1	11/19/2020 12:25	WG1578897
Iodomethane	U		0.242	0.500	1	11/19/2020 12:25	WG1578897
Allyl chloride	U		0.580	1.00	1	11/19/2020 12:25	WG1578897
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2020 12:25	WG1578897
(S) Toluene-d8	*99.4*			*75.0-131*		*11/19/2020 12:25*	WG1578897
(S) 4-Bromofluorobenzene	*125*			*67.0-138*		*11/19/2020 12:25*	WG1578897
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*11/19/2020 12:25*	WG1578897

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	84400		594	5000	1	11/23/2020 23:04	WG1580294

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)	1780		102	1000	1	11/23/2020 13:23	WG1581104

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	441		28.1	100	1	11/19/2020 18:21	WG1577486
Manganese	67.3		0.704	5.00	1	11/19/2020 18:21	WG1577486

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	106		0.287	0.678	1	11/19/2020 12:09	WG1578180
Ethane	U		0.296	1.29	1	11/19/2020 12:09	WG1578180
Ethene	U		0.422	1.27	1	11/19/2020 12:09	WG1578180

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	C3	0.548	1.00	1	11/19/2020 12:45	WG1578897
Acrylonitrile	U		0.0760	0.500	1	11/19/2020 12:45	WG1578897
Benzene	U		0.0160	0.0400	1	11/19/2020 12:45	WG1578897
Bromobenzene	U		0.0420	0.500	1	11/19/2020 12:45	WG1578897
Bromodichloromethane	U		0.0315	0.100	1	11/19/2020 12:45	WG1578897
Bromoform	U		0.239	1.00	1	11/19/2020 12:45	WG1578897
Bromomethane	U		0.148	0.500	1	11/19/2020 12:45	WG1578897
n-Butylbenzene	U		0.153	0.500	1	11/19/2020 12:45	WG1578897
sec-Butylbenzene	U		0.101	0.500	1	11/19/2020 12:45	WG1578897
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2020 12:45	WG1578897
Carbon tetrachloride	U	J4	0.0432	0.200	1	11/19/2020 12:45	WG1578897
Chlorobenzene	U		0.0229	0.100	1	11/19/2020 12:45	WG1578897
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2020 12:45	WG1578897
Chloroethane	U	J4	0.0432	0.200	1	11/19/2020 12:45	WG1578897
Chloroform	U		0.0166	0.100	1	11/19/2020 12:45	WG1578897
Chloromethane	U		0.0556	0.500	1	11/19/2020 12:45	WG1578897
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2020 12:45	WG1578897
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2020 12:45	WG1578897
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2020 12:45	WG1578897
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2020 12:45	WG1578897
Dibromomethane	U		0.0400	0.200	1	11/19/2020 12:45	WG1578897
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2020 12:45	WG1578897
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2020 12:45	WG1578897
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2020 12:45	WG1578897
Dichlorodifluoromethane	U		0.0327	0.100	1	11/19/2020 12:45	WG1578897
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2020 12:45	WG1578897
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2020 12:45	WG1578897
1,1-Dichloroethene	U		0.0200	0.100	1	11/19/2020 12:45	WG1578897
cis-1,2-Dichloroethene	11.7		0.0276	0.100	1	11/19/2020 12:45	WG1578897
trans-1,2-Dichloroethene	0.108	J	0.0572	0.200	1	11/19/2020 12:45	WG1578897
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2020 12:45	WG1578897

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2020 12:45	WG1578897
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2020 12:45	WG1578897
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2020 12:45	WG1578897
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2020 12:45	WG1578897
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2020 12:45	WG1578897
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2020 12:45	WG1578897
Ethylbenzene	U		0.0212	0.100	1	11/19/2020 12:45	WG1578897
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/19/2020 12:45	WG1578897
Isopropylbenzene	U		0.0345	0.100	1	11/19/2020 12:45	WG1578897
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2020 12:45	WG1578897
2-Butanone (MEK)	U		0.500	1.00	1	11/19/2020 12:45	WG1578897
Methylene Chloride	U		0.265	1.00	1	11/19/2020 12:45	WG1578897
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/19/2020 12:45	WG1578897
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2020 12:45	WG1578897
Naphthalene	U		0.124	0.500	1	11/19/2020 12:45	WG1578897
n-Propylbenzene	U		0.0472	0.200	1	11/19/2020 12:45	WG1578897
Styrene	U		0.109	0.500	1	11/19/2020 12:45	WG1578897
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2020 12:45	WG1578897
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2020 12:45	WG1578897
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2020 12:45	WG1578897
Tetrachloroethene	119		0.0280	0.100	1	11/19/2020 12:45	WG1578897
Toluene	U	C3	0.0500	0.200	1	11/19/2020 12:45	WG1578897
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2020 12:45	WG1578897
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2020 12:45	WG1578897
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2020 12:45	WG1578897
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2020 12:45	WG1578897
Trichloroethene	26.0		0.0160	0.0400	1	11/19/2020 12:45	WG1578897
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2020 12:45	WG1578897
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2020 12:45	WG1578897
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2020 12:45	WG1578897
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2020 12:45	WG1578897
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2020 12:45	WG1578897
Vinyl chloride	0.190	C5 J4	0.0273	0.100	1	11/19/2020 12:45	WG1578897
Xylenes, Total	U		0.191	0.260	1	11/19/2020 12:45	WG1578897
Ethyl Ether	U	J4	0.0170	0.100	1	11/19/2020 12:45	WG1578897
Tetrahydrofuran	U		0.0900	0.500	1	11/19/2020 12:45	WG1578897
Iodomethane	U		0.242	0.500	1	11/19/2020 12:45	WG1578897
Allyl chloride	U		0.580	1.00	1	11/19/2020 12:45	WG1578897
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2020 12:45	WG1578897
(S) Toluene-d8	*122*			*75.0-131*		*11/19/2020 12:45*	WG1578897
(S) 4-Bromofluorobenzene	*110*			*67.0-138*		*11/19/2020 12:45*	WG1578897
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*11/19/2020 12:45*	WG1578897

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	118000		2970	25000	5	11/24/2020 11:32	WG1580294

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)	9960		102	1000	1	11/23/2020 01:34	WG1580392

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	3360		28.1	100	1	11/19/2020 18:24	WG1577486
Manganese	3230		0.704	5.00	1	11/19/2020 18:24	WG1577486

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	993		0.287	0.678	1	11/19/2020 12:13	WG1578180
Ethane	19.8		0.296	1.29	1	11/19/2020 12:13	WG1578180
Ethene	U		0.422	1.27	1	11/19/2020 12:13	WG1578180

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	C3	0.548	1.00	1	11/19/2020 13:05	WG1578897
Acrylonitrile	U		0.0760	0.500	1	11/19/2020 13:05	WG1578897
Benzene	0.149		0.0160	0.0400	1	11/19/2020 13:05	WG1578897
Bromobenzene	U		0.0420	0.500	1	11/19/2020 13:05	WG1578897
Bromodichloromethane	U		0.0315	0.100	1	11/19/2020 13:05	WG1578897
Bromoform	U		0.239	1.00	1	11/19/2020 13:05	WG1578897
Bromomethane	U		0.148	0.500	1	11/19/2020 13:05	WG1578897
n-Butylbenzene	U		0.153	0.500	1	11/19/2020 13:05	WG1578897
sec-Butylbenzene	U		0.101	0.500	1	11/19/2020 13:05	WG1578897
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2020 13:05	WG1578897
Carbon tetrachloride	U	J4	0.0432	0.200	1	11/19/2020 13:05	WG1578897
Chlorobenzene	U		0.0229	0.100	1	11/19/2020 13:05	WG1578897
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2020 13:05	WG1578897
Chloroethane	U	J4	0.0432	0.200	1	11/19/2020 13:05	WG1578897
Chloroform	U		0.0166	0.100	1	11/19/2020 13:05	WG1578897
Chloromethane	U		0.0556	0.500	1	11/19/2020 13:05	WG1578897
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2020 13:05	WG1578897
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2020 13:05	WG1578897
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2020 13:05	WG1578897
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2020 13:05	WG1578897
Dibromomethane	U		0.0400	0.200	1	11/19/2020 13:05	WG1578897
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2020 13:05	WG1578897
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2020 13:05	WG1578897
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2020 13:05	WG1578897
Dichlorodifluoromethane	U		0.0327	0.100	1	11/19/2020 13:05	WG1578897
1,1-Dichloroethane	0.361		0.0230	0.100	1	11/19/2020 13:05	WG1578897
1,2-Dichloroethane	0.183		0.0190	0.100	1	11/19/2020 13:05	WG1578897
1,1-Dichloroethene	3.10		0.0200	0.100	1	11/19/2020 13:05	WG1578897
cis-1,2-Dichloroethene	850		0.276	1.00	10	11/20/2020 12:47	WG1579283
trans-1,2-Dichloroethene	4.29		0.0572	0.200	1	11/19/2020 13:05	WG1578897
1,2-Dichloropropane	0.331		0.0508	0.200	1	11/19/2020 13:05	WG1578897

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2020 13:05	WG1578897
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2020 13:05	WG1578897
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2020 13:05	WG1578897
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2020 13:05	WG1578897
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2020 13:05	WG1578897
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2020 13:05	WG1578897
Ethylbenzene	U		0.0212	0.100	1	11/19/2020 13:05	WG1578897
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/19/2020 13:05	WG1578897
Isopropylbenzene	U		0.0345	0.100	1	11/19/2020 13:05	WG1578897
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2020 13:05	WG1578897
2-Butanone (MEK)	U		0.500	1.00	1	11/19/2020 13:05	WG1578897
Methylene Chloride	U		0.265	1.00	1	11/19/2020 13:05	WG1578897
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/19/2020 13:05	WG1578897
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2020 13:05	WG1578897
Naphthalene	U		0.124	0.500	1	11/19/2020 13:05	WG1578897
n-Propylbenzene	U		0.0472	0.200	1	11/19/2020 13:05	WG1578897
Styrene	U		0.109	0.500	1	11/19/2020 13:05	WG1578897
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2020 13:05	WG1578897
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2020 13:05	WG1578897
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2020 13:05	WG1578897
Tetrachloroethene	719		0.280	1.00	10	11/20/2020 12:47	WG1579283
Toluene	0.453	C3	0.0500	0.200	1	11/19/2020 13:05	WG1578897
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2020 13:05	WG1578897
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2020 13:05	WG1578897
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2020 13:05	WG1578897
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2020 13:05	WG1578897
Trichloroethene	363		0.160	0.400	10	11/20/2020 12:47	WG1579283
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2020 13:05	WG1578897
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2020 13:05	WG1578897
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2020 13:05	WG1578897
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2020 13:05	WG1578897
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2020 13:05	WG1578897
Vinyl chloride	2.14	C5 J4	0.0273	0.100	1	11/19/2020 13:05	WG1578897
Xylenes, Total	U		0.191	0.260	1	11/19/2020 13:05	WG1578897
Ethyl Ether	U	J4	0.0170	0.100	1	11/19/2020 13:05	WG1578897
Tetrahydrofuran	0.872		0.0900	0.500	1	11/19/2020 13:05	WG1578897
Iodomethane	U		0.242	0.500	1	11/19/2020 13:05	WG1578897
Allyl chloride	U		0.580	1.00	1	11/19/2020 13:05	WG1578897
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2020 13:05	WG1578897
(S) Toluene-d8	*101*			*75.0-131*		*11/19/2020 13:05*	WG1578897
(S) Toluene-d8	*101*			*75.0-131*		*11/20/2020 12:47*	WG1579283
(S) 4-Bromofluorobenzene	*128*			*67.0-138*		*11/19/2020 13:05*	WG1578897
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*11/20/2020 12:47*	WG1579283
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*11/19/2020 13:05*	WG1578897
(S) 1,2-Dichloroethane-d4	*94.6*			*70.0-130*		*11/20/2020 12:47*	WG1579283

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	26700		594	5000	1	11/23/2020 23:35	WG1580294

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)	6430		102	1000	1	11/23/2020 02:21	WG1580392

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	11100		28.1	100	1	11/19/2020 18:27	WG1577486
Manganese	2510		0.704	5.00	1	11/19/2020 18:27	WG1577486

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	6170		0.287	0.678	1	11/19/2020 13:20	WG1578180
Ethane	U		0.296	1.29	1	11/19/2020 13:20	WG1578180
Ethene	U		0.422	1.27	1	11/19/2020 13:20	WG1578180

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	0.936	B C3 J	0.548	1.00	1	11/19/2020 13:25	WG1578897
Acrylonitrile	U		0.0760	0.500	1	11/19/2020 13:25	WG1578897
Benzene	U		0.0160	0.0400	1	11/19/2020 13:25	WG1578897
Bromobenzene	U		0.0420	0.500	1	11/19/2020 13:25	WG1578897
Bromodichloromethane	U		0.0315	0.100	1	11/19/2020 13:25	WG1578897
Bromoform	U		0.239	1.00	1	11/19/2020 13:25	WG1578897
Bromomethane	U		0.148	0.500	1	11/19/2020 13:25	WG1578897
n-Butylbenzene	U		0.153	0.500	1	11/19/2020 13:25	WG1578897
sec-Butylbenzene	U		0.101	0.500	1	11/19/2020 13:25	WG1578897
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2020 13:25	WG1578897
Carbon tetrachloride	U	J4	0.0432	0.200	1	11/19/2020 13:25	WG1578897
Chlorobenzene	U		0.0229	0.100	1	11/19/2020 13:25	WG1578897
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2020 13:25	WG1578897
Chloroethane	U	J4	0.0432	0.200	1	11/19/2020 13:25	WG1578897
Chloroform	U		0.0166	0.100	1	11/19/2020 13:25	WG1578897
Chloromethane	U		0.0556	0.500	1	11/19/2020 13:25	WG1578897
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2020 13:25	WG1578897
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2020 13:25	WG1578897
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2020 13:25	WG1578897
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2020 13:25	WG1578897
Dibromomethane	U		0.0400	0.200	1	11/19/2020 13:25	WG1578897
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2020 13:25	WG1578897
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2020 13:25	WG1578897
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2020 13:25	WG1578897
Dichlorodifluoromethane	U		0.0327	0.100	1	11/19/2020 13:25	WG1578897
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2020 13:25	WG1578897
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2020 13:25	WG1578897
1,1-Dichloroethene	U		0.0200	0.100	1	11/19/2020 13:25	WG1578897
cis-1,2-Dichloroethene	12.9		0.0276	0.100	1	11/20/2020 11:47	WG1579425
trans-1,2-Dichloroethene	0.0983	J	0.0572	0.200	1	11/19/2020 13:25	WG1578897
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2020 13:25	WG1578897

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2020 13:25	WG1578897
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2020 13:25	WG1578897
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2020 13:25	WG1578897
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2020 13:25	WG1578897
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2020 13:25	WG1578897
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2020 13:25	WG1578897
Ethylbenzene	U		0.0212	0.100	1	11/19/2020 13:25	WG1578897
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/19/2020 13:25	WG1578897
Isopropylbenzene	U		0.0345	0.100	1	11/19/2020 13:25	WG1578897
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2020 13:25	WG1578897
2-Butanone (MEK)	U		0.500	1.00	1	11/19/2020 13:25	WG1578897
Methylene Chloride	U		0.265	1.00	1	11/19/2020 13:25	WG1578897
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/19/2020 13:25	WG1578897
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2020 13:25	WG1578897
Naphthalene	U		0.124	0.500	1	11/19/2020 13:25	WG1578897
n-Propylbenzene	U		0.0472	0.200	1	11/19/2020 13:25	WG1578897
Styrene	U		0.109	0.500	1	11/19/2020 13:25	WG1578897
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2020 13:25	WG1578897
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2020 13:25	WG1578897
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2020 13:25	WG1578897
Tetrachloroethene	0.420		0.0280	0.100	1	11/20/2020 11:47	WG1579425
Toluene	U	C3	0.0500	0.200	1	11/19/2020 13:25	WG1578897
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2020 13:25	WG1578897
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2020 13:25	WG1578897
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2020 13:25	WG1578897
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2020 13:25	WG1578897
Trichloroethene	2.63		0.0160	0.0400	1	11/20/2020 11:47	WG1579425
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2020 13:25	WG1578897
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2020 13:25	WG1578897
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2020 13:25	WG1578897
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2020 13:25	WG1578897
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2020 13:25	WG1578897
Vinyl chloride	0.212	C5 J4	0.0273	0.100	1	11/19/2020 13:25	WG1578897
Xylenes, Total	U		0.191	0.260	1	11/19/2020 13:25	WG1578897
Ethyl Ether	U	J4	0.0170	0.100	1	11/19/2020 13:25	WG1578897
Tetrahydrofuran	U		0.0900	0.500	1	11/19/2020 13:25	WG1578897
Iodomethane	U		0.242	0.500	1	11/19/2020 13:25	WG1578897
Allyl chloride	U		0.580	1.00	1	11/19/2020 13:25	WG1578897
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2020 13:25	WG1578897
(S) Toluene-d8	*97.7*			*75.0-131*		*11/19/2020 13:25*	WG1578897
(S) Toluene-d8	*99.8*			*75.0-131*		*11/20/2020 11:47*	WG1579425
(S) 4-Bromofluorobenzene	*93.8*			*67.0-138*		*11/19/2020 13:25*	WG1578897
(S) 4-Bromofluorobenzene	*98.1*			*67.0-138*		*11/20/2020 11:47*	WG1579425
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*11/19/2020 13:25*	WG1578897
(S) 1,2-Dichloroethane-d4	*95.6*			*70.0-130*		*11/20/2020 11:47*	WG1579425

Method Blank (MB)

(MB) R3596744-1 11/23/20 12:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Sulfate	U		594	5000

L1285117-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1285117-01 11/23/20 15:54 • (DUP) R3596744-3 11/23/20 16:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Sulfate	10900	11000	1	0.547		15

L1285153-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1285153-01 11/23/20 21:44 • (DUP) R3596744-6 11/23/20 22:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Sulfate	81200	81200	1	0.0729		15

Laboratory Control Sample (LCS)

(LCS) R3596744-2 11/23/20 13:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Sulfate	40000	39900	99.7	80.0-120	

L1285117-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1285117-02 11/23/20 16:26 • (MS) R3596744-4 11/23/20 16:42 • (MSD) R3596744-5 11/23/20 16:57

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	%	%		%			%	%
Sulfate	50000	64900	115000	115000	101	101	1	80.0-120	E	E	0.00417	15

L1285153-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1285153-02 11/23/20 22:16 • (MS) R3596744-7 11/23/20 22:32

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	ug/l	ug/l	ug/l	%		%	
Sulfate	50000	12600	65000	105	1	80.0-120	

Method Blank (MB)

(MB) R3596049-1 11/21/20 16:47

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	U		102	1000

L1285117-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1285117-07 11/21/20 23:43 • (DUP) R3596049-7 11/21/20 23:56

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	569	474	1	18.2	J	20

L1285153-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1285153-01 11/22/20 02:42 • (DUP) R3596049-8 11/22/20 02:55

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	1610	1570	1	2.46		20

Laboratory Control Sample (LCS)

(LCS) R3596049-2 11/21/20 17:23

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	77600	103	85.0-115	

L1284949-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1284949-13 11/21/20 19:17 • (MS) R3596049-3 11/21/20 19:41 • (MSD) R3596049-4 11/21/20 20:01

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 (Total Organic Carbon)	50000	4750	52600	52400	95.7	95.2	1	80.0-120			0.457	20

L1285117-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1285117-05 11/21/20 22:29 • (MS) R3596049-5 11/21/20 22:52 • (MSD) R3596049-6 11/21/20 23:12

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 (Total Organic Carbon)	50000	400	49200	48300	97.6	95.8	1	80.0-120			1.91	20

Method Blank (MB)

(MB) R3596193-1 11/22/20 19:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	293	J	102	1000

L1282741-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1282741-06 11/22/20 22:54 • (DUP) R3596193-5 11/22/20 23:07

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	261	244	1	6.93	J	20

L1282777-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1282777-05 11/23/20 00:05 • (DUP) R3596193-6 11/23/20 00:18

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	1040	1050	1	1.25		20

Laboratory Control Sample (LCS)

(LCS) R3596193-2 11/22/20 20:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	77600	103	85.0-115	

L1282741-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1282741-03 11/22/20 20:58 • (MS) R3596193-3 11/22/20 21:11 • (MSD) R3596193-4 11/22/20 21:25

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	50000	285	48800	48100	97.1	95.6	1	80.0-120			1.51	20

L1285153-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1285153-05 11/23/20 01:34 • (MS) R3596193-7 11/23/20 01:52 • (MSD) R3596193-8 11/23/20 02:09

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 %
TOC (Total Organic Carbon)	50000	9960	59400	57900	98.8	95.9	1	80.0-120			2.49	20

Method Blank (MB)

(MB) R3596776-1 11/23/20 10:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	U		102	1000

Laboratory Control Sample (LCS)

(LCS) R3596776-2 11/23/20 11:07

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	75100	100	85.0-115	

L1285502-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1285502-06 11/23/20 16:00 • (MS) R3596776-4 11/23/20 16:27 • (MSD) R3596776-5 11/23/20 16:49

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 (Total Organic Carbon)	50000	376	45400	46600	90.1	92.4	1	80.0-120			2.52	20

L1285502-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1285502-12 11/23/20 19:38 • (MS) R3596776-7 11/23/20 20:04 • (MSD) R3596776-8 11/23/20 20:25

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	50000	232	47400	46700	94.4	92.8	1	80.0-120			1.68	20

Method Blank (MB)

(MB) R3594790-1 11/19/20 00:30

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

Laboratory Control Sample (LCS)

(LCS) R3594790-2 11/19/20 00:35

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	5000	5390	108	80.0-120	
Manganese	50.0	51.9	104	80.0-120	

L1285001-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1285001-06 11/19/20 00:39 • (MS) R3594790-4 11/19/20 00:47 • (MSD) R3594790-5 11/19/20 00:51

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	41.7	5240	5100	104	101	1	75.0-125			2.61	20
Manganese	50.0	365	413	397	95.9	62.6	1	75.0-125		V	4.12	20

Method Blank (MB)

(MB) R3595042-2 11/19/20 11:47

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

L1285332-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1285332-01 11/19/20 11:52 • (DUP) R3595042-3 11/19/20 13:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	40.7	39.4	1	3.25		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1285330-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1285330-05 11/19/20 14:29 • (DUP) R3595042-4 11/19/20 14:34

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	63.5	63.3	1	0.315		20
Ethane	5.59	5.44	1	2.72		20
Ethene	U	U	1	0.000		20

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

(LCS) R3595042-1 11/19/20 11:42 • (LCSD) R3595042-5 11/19/20 14:38

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	71.2	69.4	105	102	85.0-115			2.56	20
Ethane	129	131	132	102	102	85.0-115			0.760	20
Ethene	127	128	130	101	102	85.0-115			1.55	20

Method Blank (MB)

(MB) R3595003-2 11/19/20 08:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	0.771	J	0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100

Method Blank (MB)

(MB) R3595003-2 11/19/20 08:40

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*127*			*75.0-131*
(S) 4-Bromofluorobenzene	*108*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3595003-1 11/19/20 06:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	19.3	77.2	10.0-160	
Acrylonitrile	25.0	25.1	100	45.0-153	
Benzene	5.00	5.00	100	70.0-123	
Bromobenzene	5.00	4.11	82.2	73.0-121	
Bromodichloromethane	5.00	5.26	105	73.0-121	
Bromoform	5.00	4.56	91.2	64.0-132	
Bromomethane	5.00	6.67	133	56.0-147	
n-Butylbenzene	5.00	5.35	107	68.0-135	
sec-Butylbenzene	5.00	4.87	97.4	74.0-130	
tert-Butylbenzene	5.00	4.90	98.0	75.0-127	
Carbon tetrachloride	5.00	6.47	129	66.0-128	J4
Chlorobenzene	5.00	4.91	98.2	76.0-128	
Chlorodibromomethane	5.00	5.18	104	74.0-127	
Chloroethane	5.00	7.45	149	61.0-134	J4
Chloroform	5.00	5.46	109	72.0-123	
Chloromethane	5.00	6.28	126	51.0-138	
2-Chlorotoluene	5.00	4.53	90.6	75.0-124	
4-Chlorotoluene	5.00	4.48	89.6	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	4.84	96.8	59.0-130	
1,2-Dibromoethane	5.00	5.05	101	74.0-128	
Dibromomethane	5.00	5.24	105	75.0-122	
1,2-Dichlorobenzene	5.00	5.56	111	76.0-124	
1,3-Dichlorobenzene	5.00	4.96	99.2	76.0-125	
1,4-Dichlorobenzene	5.00	4.79	95.8	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	3.54	70.8	45.0-143	
Dichlorodifluoromethane	5.00	6.08	122	43.0-156	
1,1-Dichloroethane	5.00	5.04	101	70.0-127	
1,2-Dichloroethane	5.00	5.55	111	65.0-131	
1,1-Dichloroethene	5.00	5.37	107	65.0-131	
cis-1,2-Dichloroethene	5.00	5.34	107	73.0-125	
trans-1,2-Dichloroethene	5.00	5.08	102	71.0-125	
1,2-Dichloropropane	5.00	4.90	98.0	74.0-125	
1,1-Dichloropropene	5.00	5.46	109	73.0-125	
1,3-Dichloropropane	5.00	4.96	99.2	80.0-125	
cis-1,3-Dichloropropene	5.00	5.22	104	76.0-127	
trans-1,3-Dichloropropene	5.00	4.37	87.4	73.0-127	
2,2-Dichloropropane	5.00	6.33	127	59.0-135	
Di-isopropyl ether	5.00	4.81	96.2	60.0-136	
Ethylbenzene	5.00	4.93	98.6	74.0-126	
Ethyl ether	5.00	7.81	156	64.0-137	J4

Laboratory Control Sample (LCS)

(LCS) R3595003-1 11/19/20 06:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexachloro-1,3-butadiene	5.00	5.69	114	57.0-150	
Iodomethane	25.0	28.1	112	74.0-134	
Isopropylbenzene	5.00	4.33	86.6	72.0-127	
p-Isopropyltoluene	5.00	5.00	100	72.0-133	
2-Butanone (MEK)	25.0	24.0	96.0	30.0-160	
Methylene Chloride	5.00	4.30	86.0	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	19.7	78.8	56.0-143	
Methyl tert-butyl ether	5.00	5.84	117	66.0-132	
Naphthalene	5.00	4.85	97.0	59.0-130	
n-Propylbenzene	5.00	4.46	89.2	74.0-126	
Styrene	5.00	4.14	82.8	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	5.26	105	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	4.00	80.0	68.0-128	
Tetrachloroethene	5.00	4.57	91.4	70.0-136	
Tetrahydrofuran	5.00	4.24	84.8	37.0-146	
Toluene	5.00	3.89	77.8	75.0-121	
1,1,2-Trichlorotrifluoroethane	5.00	4.92	98.4	61.0-139	
1,2,3-Trichlorobenzene	5.00	5.24	105	59.0-139	
1,2,4-Trichlorobenzene	5.00	5.37	107	62.0-137	
1,1,1-Trichloroethane	5.00	6.03	121	69.0-126	
1,1,2-Trichloroethane	5.00	4.39	87.8	78.0-123	
Trichloroethene	5.00	5.74	115	76.0-126	
Trichlorofluoromethane	5.00	6.72	134	61.0-142	
1,2,3-Trichloropropane	5.00	4.96	99.2	67.0-129	
1,2,3-Trimethylbenzene	5.00	4.70	94.0	74.0-124	
1,2,4-Trimethylbenzene	5.00	4.80	96.0	70.0-126	
1,3,5-Trimethylbenzene	5.00	4.80	96.0	73.0-127	
Vinyl chloride	5.00	6.76	135	63.0-134	J4
Xylenes, Total	15.0	13.5	90.0	72.0-127	
Allyl chloride	25.0	24.6	98.4	70.0-131	
(S) Toluene-d8			*85.4*	*75.0-131*	
(S) 4-Bromofluorobenzene			*88.1*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*113*	*70.0-130*	

Method Blank (MB)

(MB) R3595450-2 11/20/20 10:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Tetrachloroethene	U		0.0280	0.100
Trichloroethene	U		0.0160	0.0400
(S) Toluene-d8	*102*			*75.0-131*
(S) 4-Bromofluorobenzene	*102*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*93.2*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3595450-1 11/20/20 09:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	5.00	5.22	104	73.0-125	
Tetrachloroethene	5.00	4.91	98.2	70.0-136	
Trichloroethene	5.00	5.02	100	76.0-126	
(S) Toluene-d8			*98.9*	*75.0-131*	
(S) 4-Bromofluorobenzene			*102*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*94.9*	*70.0-130*	

Method Blank (MB)

(MB) R3595452-2 11/20/20 10:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Tetrachloroethene	U		0.0280	0.100
Trichloroethene	U		0.0160	0.0400
(S) Toluene-d8	*102*			*75.0-131*
(S) 4-Bromofluorobenzene	*102*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*93.2*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3595452-1 11/20/20 09:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	5.00	5.22	104	73.0-125	
Tetrachloroethene	5.00	4.91	98.2	70.0-136	
Trichloroethene	5.00	5.02	100	76.0-126	
(S) Toluene-d8			*98.9*	*75.0-131*	
(S) 4-Bromofluorobenzene			*102*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*94.9*	*70.0-130*	

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
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.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J4	The associated batch QC was outside the established quality control range for accuracy.
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	LAO00356
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

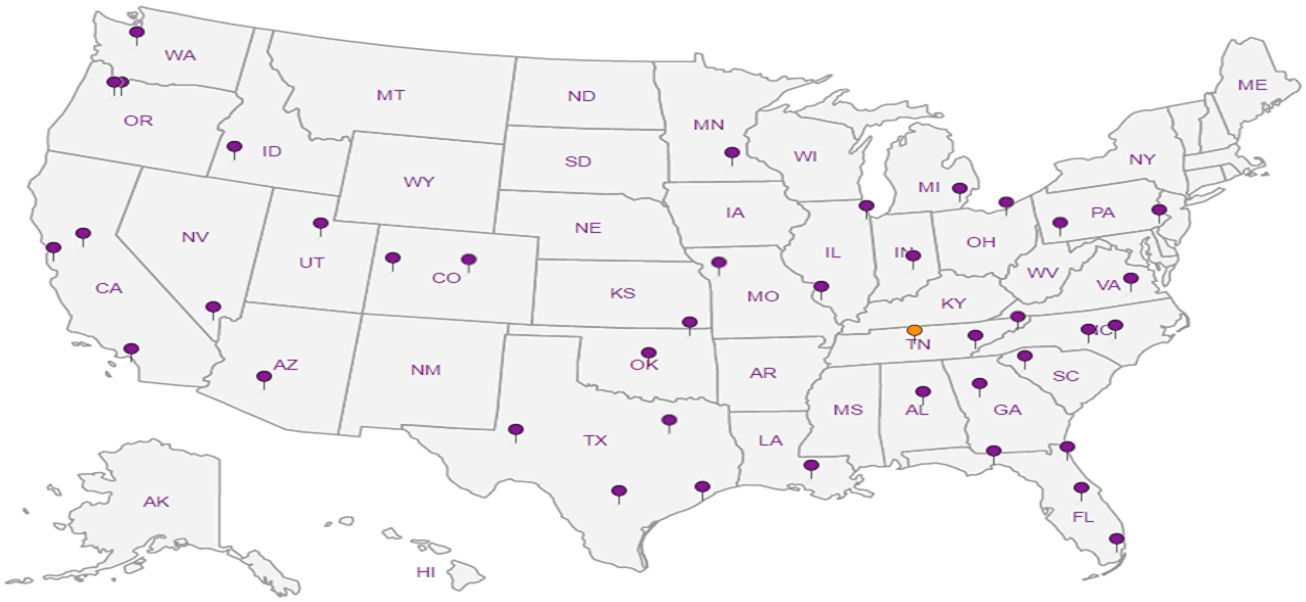
Third Party Federal Accreditations

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.



CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: J201

ALL SHADED AREAS are for LAB USE ONLY

Company: **PES Environmental, Inc.**	Billing Information: **Attn: Accounts Payable 1215 4th Ave STE 1350, Seattle, WA 98161**
Address: **1215 4th Ave STE 1350, Seattle, WA 98161**	
Report To: **Bill Haldeman/Brian O'Neal**	Email To: **bhaldeman@pesenv.com; boneal@pesenv.com**
Copy To: **Kim Vik, Shannon McKernan, Karsten Springstead**	Site Collection Info/Address: **700 Dexter Ave N**
Customer Project Name/Number: American Linen **1413.001.02.501E**	State: **WA** / County/City: **King/Seattle** Time Zone Collected: [x]PT [ ]MT [ ]CT [ ]ET
Phone: 206-529-3980 Email: **agilvezan@pesenv.com**	Site/Facility ID #: **1413.001.02.501E**
Collected By (print): Ben Hecht	Purchase Order # : **1413.001.02.501E** Quote #: **PESENVSWA-ALP**
Collected By (signature):	Turnaround Date Required: Standard turnaround time
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [x] Yes [ ] No

DW PWS ID #:

DW Location Code:

Immediately Packed on Ice: [x] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Lab Project Manager:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	*NO3, SO4, Cl* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM (RSK175LL) 40mlAmb-HCl	TOC 250mlAmb-HCl or 250mlHDPE-HCl (2)	Total Fe, Mn 6020 250mlHDPE-HNO3 (2)	VOCs (8260ULLC)	GRO (NWTPH-Gx)				Lab Sample # / Comments
~~FMW-129-111020~~ (BH)																			
FMW-129-111020	GW	Grab	11/10/20	1630				8	X		X	X	X	X					L1285153-01
MW-159-111120	GW	Grab	11/11/20	1018				8	X		X	X	X	X					02
MW-148-111120	GW	Grab		1020				8	X		X	X	X	X					03
MW-155-111120	GW	Grab		1205				8	X		X	X	X	X					04
MW-156-111120	GW	Grab		1255				8	X		X	X	X	X					05
(BH) ~~MW-1~~ MW119-111120	GW	Grab		1335				8	X		X	X	X	X					06
	GW	Grab																	
	GW	Grab																	
(BH)	GW	Grab																	
	GW	Grab																	

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 905008876276

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: IR#1
Cooler 1 Temp Upon Receipt: .8 oC
Cooler 1 Therm Corr. Factor: .0 oC
Cooler 1 Corrected Temp: .8 oC
Comments:

Relinquished by/Company: (Signature) PES Environmental	Date/Time: @1530 11-11-2020	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY Table #:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:	Trip Blank Received: Y N NA HCL MeOH TSP Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 11/12/20 0900	PM: PB:	Non Conformance(s): YES (NO) Page: _____ of: _____

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

November 30, 2020

PES Environmental, Inc.- WA

Sample Delivery Group:	L1285785
Samples Received:	11/13/2020
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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MW-312-111120 L1285785-01 GW

Collected by: HRC/BLH | Collected date/time: 11/11/20 15:25 | Received date/time: 11/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578897	1	11/19/20 13:46	11/19/20 13:46	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1579425	1	11/20/20 12:07	11/20/20 12:07	BMB	Mt. Juliet, TN

MW-320-111220 L1285785-02 GW

Collected by: HRC/BLH | Collected date/time: 11/12/20 10:05 | Received date/time: 11/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578897	1	11/19/20 14:06	11/19/20 14:06	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1579425	1	11/20/20 12:27	11/20/20 12:27	BMB	Mt. Juliet, TN

MW116-111220 L1285785-03 GW

Collected by: HRC/BLH | Collected date/time: 11/12/20 10:40 | Received date/time: 11/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1580304	1	11/24/20 01:29	11/24/20 01:29	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1581342	1	11/25/20 21:52	11/25/20 21:52	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1578885	1	11/19/20 21:26	11/20/20 16:31	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1578180	1	11/19/20 14:21	11/19/20 14:21	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1579392	10	11/19/20 16:34	11/19/20 16:34	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578897	1	11/19/20 14:26	11/19/20 14:26	ADM	Mt. Juliet, TN

MW-332-111220 L1285785-04 GW

Collected by: HRC/BLH | Collected date/time: 11/12/20 11:25 | Received date/time: 11/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578897	1	11/19/20 14:46	11/19/20 14:46	ADM	Mt. Juliet, TN

MW-318-111220 L1285785-05 GW

Collected by: HRC/BLH | Collected date/time: 11/12/20 13:05 | Received date/time: 11/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578897	1	11/19/20 15:07	11/19/20 15:07	ADM	Mt. Juliet, TN

MW115-111220 L1285785-06 GW

Collected by: HRC/BLH | Collected date/time: 11/12/20 13:40 | Received date/time: 11/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1580304	5	11/24/20 02:06	11/24/20 02:06	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1581342	1	11/25/20 22:18	11/25/20 22:18	VRP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1578885	1	11/19/20 21:26	11/20/20 16:43	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1578180	1	11/19/20 14:23	11/19/20 14:23	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578897	1	11/19/20 15:27	11/19/20 15:27	ADM	Mt. Juliet, TN

MW-319-111220 L1285785-07 GW

Collected by: HRC/BLH | Collected date/time: 11/12/20 14:00 | Received date/time: 11/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578897	1	11/19/20 15:47	11/19/20 15:47	ADM	Mt. Juliet, TN

MW123-111220 L1285785-08 GW

Collected by: HRC/BLH
Collected date/time: 11/12/20 15:05
Received date/time: 11/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1580676	1	11/22/20 14:15	11/22/20 14:15	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1581939	1	11/24/20 17:23	11/24/20 17:23	BMB	Mt. Juliet, TN

EQ-111220 L1285785-09 GW

Collected by: HRC/BLH
Collected date/time: 11/12/20 15:15
Received date/time: 11/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1580304	1	11/24/20 02:24	11/24/20 02:24	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1582403	1	11/25/20 15:00	11/25/20 15:00	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1578885	1	11/19/20 21:26	11/20/20 16:46	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1578180	1	11/19/20 14:27	11/19/20 14:27	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1580676	1	11/22/20 12:33	11/22/20 12:33	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1581939	1	11/24/20 17:41	11/24/20 17:41	BMB	Mt. Juliet, TN

TB-111220 L1285785-10 GW

Collected by: HRC/BLH
Collected date/time: 11/12/20 15:30
Received date/time: 11/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1580676	1	11/22/20 11:52	11/22/20 11:52	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1581939	1	11/24/20 15:29	11/24/20 15:29	BMB	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

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.42	B C3	0.548	1.00	1	11/19/2020 13:46	WG1578897
Acrylonitrile	U		0.0760	0.500	1	11/19/2020 13:46	WG1578897
Benzene	U		0.0160	0.0400	1	11/19/2020 13:46	WG1578897
Bromobenzene	U		0.0420	0.500	1	11/19/2020 13:46	WG1578897
Bromodichloromethane	U		0.0315	0.100	1	11/19/2020 13:46	WG1578897
Bromoform	U		0.239	1.00	1	11/19/2020 13:46	WG1578897
Bromomethane	U		0.148	0.500	1	11/19/2020 13:46	WG1578897
n-Butylbenzene	U		0.153	0.500	1	11/19/2020 13:46	WG1578897
sec-Butylbenzene	U		0.101	0.500	1	11/19/2020 13:46	WG1578897
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2020 13:46	WG1578897
Carbon tetrachloride	U	J4	0.0432	0.200	1	11/19/2020 13:46	WG1578897
Chlorobenzene	U		0.0229	0.100	1	11/19/2020 13:46	WG1578897
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2020 13:46	WG1578897
Chloroethane	U	J4	0.0432	0.200	1	11/19/2020 13:46	WG1578897
Chloroform	U		0.0166	0.100	1	11/19/2020 13:46	WG1578897
Chloromethane	U		0.0556	0.500	1	11/19/2020 13:46	WG1578897
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2020 13:46	WG1578897
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2020 13:46	WG1578897
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2020 13:46	WG1578897
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2020 13:46	WG1578897
Dibromomethane	U		0.0400	0.200	1	11/19/2020 13:46	WG1578897
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2020 13:46	WG1578897
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2020 13:46	WG1578897
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2020 13:46	WG1578897
Dichlorodifluoromethane	U		0.0327	0.100	1	11/19/2020 13:46	WG1578897
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2020 13:46	WG1578897
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2020 13:46	WG1578897
1,1-Dichloroethene	U		0.0200	0.100	1	11/19/2020 13:46	WG1578897
cis-1,2-Dichloroethene	0.0820	J	0.0276	0.100	1	11/20/2020 12:07	WG1579425
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2020 13:46	WG1578897
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2020 13:46	WG1578897
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2020 13:46	WG1578897
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2020 13:46	WG1578897
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2020 13:46	WG1578897
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2020 13:46	WG1578897
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2020 13:46	WG1578897
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2020 13:46	WG1578897
Ethylbenzene	U		0.0212	0.100	1	11/19/2020 13:46	WG1578897
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/19/2020 13:46	WG1578897
Isopropylbenzene	U		0.0345	0.100	1	11/19/2020 13:46	WG1578897
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2020 13:46	WG1578897
2-Butanone (MEK)	0.563	J	0.500	1.00	1	11/19/2020 13:46	WG1578897
Methylene Chloride	U		0.265	1.00	1	11/19/2020 13:46	WG1578897
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/19/2020 13:46	WG1578897
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2020 13:46	WG1578897
Naphthalene	U		0.124	0.500	1	11/19/2020 13:46	WG1578897
n-Propylbenzene	U		0.0472	0.200	1	11/19/2020 13:46	WG1578897
Styrene	U		0.109	0.500	1	11/19/2020 13:46	WG1578897
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2020 13:46	WG1578897
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2020 13:46	WG1578897
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2020 13:46	WG1578897
Tetrachloroethene	0.137		0.0280	0.100	1	11/20/2020 12:07	WG1579425
Toluene	1.12	C3	0.0500	0.200	1	11/19/2020 13:46	WG1578897
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2020 13:46	WG1578897
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2020 13:46	WG1578897
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2020 13:46	WG1578897

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2020 13:46	WG1578897
Trichloroethene	0.0407		0.0160	0.0400	1	11/20/2020 12:07	WG1579425
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2020 13:46	WG1578897
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2020 13:46	WG1578897
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2020 13:46	WG1578897
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2020 13:46	WG1578897
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2020 13:46	WG1578897
Vinyl chloride	U	J4	0.0273	0.100	1	11/19/2020 13:46	WG1578897
Xylenes, Total	U		0.191	0.260	1	11/19/2020 13:46	WG1578897
Ethyl Ether	U	J4	0.0170	0.100	1	11/19/2020 13:46	WG1578897
Tetrahydrofuran	0.150	J	0.0900	0.500	1	11/19/2020 13:46	WG1578897
Iodomethane	U		0.242	0.500	1	11/19/2020 13:46	WG1578897
Allyl chloride	U		0.580	1.00	1	11/19/2020 13:46	WG1578897
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2020 13:46	WG1578897
(S) Toluene-d8	*102*			*75.0-131*		*11/19/2020 13:46*	WG1578897
(S) Toluene-d8	*101*			*75.0-131*		*11/20/2020 12:07*	WG1579425
(S) 4-Bromofluorobenzene	*112*			*67.0-138*		*11/19/2020 13:46*	WG1578897
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*11/20/2020 12:07*	WG1579425
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*11/19/2020 13:46*	WG1578897
(S) 1,2-Dichloroethane-d4	*95.0*			*70.0-130*		*11/20/2020 12:07*	WG1579425

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	0.783	B C3 J	0.548	1.00	1	11/19/2020 14:06	WG1578897
Acrylonitrile	U		0.0760	0.500	1	11/19/2020 14:06	WG1578897
Benzene	U		0.0160	0.0400	1	11/19/2020 14:06	WG1578897
Bromobenzene	U		0.0420	0.500	1	11/19/2020 14:06	WG1578897
Bromodichloromethane	U		0.0315	0.100	1	11/19/2020 14:06	WG1578897
Bromoform	U		0.239	1.00	1	11/19/2020 14:06	WG1578897
Bromomethane	U		0.148	0.500	1	11/19/2020 14:06	WG1578897
n-Butylbenzene	U		0.153	0.500	1	11/19/2020 14:06	WG1578897
sec-Butylbenzene	U		0.101	0.500	1	11/19/2020 14:06	WG1578897
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2020 14:06	WG1578897
Carbon tetrachloride	U	J4	0.0432	0.200	1	11/19/2020 14:06	WG1578897
Chlorobenzene	U		0.0229	0.100	1	11/19/2020 14:06	WG1578897
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2020 14:06	WG1578897
Chloroethane	U	J4	0.0432	0.200	1	11/19/2020 14:06	WG1578897
Chloroform	U		0.0166	0.100	1	11/19/2020 14:06	WG1578897
Chloromethane	U		0.0556	0.500	1	11/19/2020 14:06	WG1578897
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2020 14:06	WG1578897
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2020 14:06	WG1578897
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2020 14:06	WG1578897
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2020 14:06	WG1578897
Dibromomethane	U		0.0400	0.200	1	11/19/2020 14:06	WG1578897
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2020 14:06	WG1578897
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2020 14:06	WG1578897
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2020 14:06	WG1578897
Dichlorodifluoromethane	U		0.0327	0.100	1	11/19/2020 14:06	WG1578897
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2020 14:06	WG1578897
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2020 14:06	WG1578897
1,1-Dichloroethene	U		0.0200	0.100	1	11/19/2020 14:06	WG1578897
cis-1,2-Dichloroethene	0.0350	J	0.0276	0.100	1	11/20/2020 12:27	WG1579425
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2020 14:06	WG1578897
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2020 14:06	WG1578897
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2020 14:06	WG1578897
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2020 14:06	WG1578897
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2020 14:06	WG1578897
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2020 14:06	WG1578897
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2020 14:06	WG1578897
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2020 14:06	WG1578897
Ethylbenzene	U		0.0212	0.100	1	11/19/2020 14:06	WG1578897
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/19/2020 14:06	WG1578897
Isopropylbenzene	U		0.0345	0.100	1	11/19/2020 14:06	WG1578897
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2020 14:06	WG1578897
2-Butanone (MEK)	U		0.500	1.00	1	11/19/2020 14:06	WG1578897
Methylene Chloride	U		0.265	1.00	1	11/19/2020 14:06	WG1578897
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/19/2020 14:06	WG1578897
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2020 14:06	WG1578897
Naphthalene	U		0.124	0.500	1	11/19/2020 14:06	WG1578897
n-Propylbenzene	U		0.0472	0.200	1	11/19/2020 14:06	WG1578897
Styrene	U		0.109	0.500	1	11/19/2020 14:06	WG1578897
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2020 14:06	WG1578897
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2020 14:06	WG1578897
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2020 14:06	WG1578897
Tetrachloroethene	U		0.0280	0.100	1	11/20/2020 12:27	WG1579425
Toluene	0.338	C3	0.0500	0.200	1	11/19/2020 14:06	WG1578897
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2020 14:06	WG1578897
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2020 14:06	WG1578897
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2020 14:06	WG1578897

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2020 14:06	WG1578897
Trichloroethene	U		0.0160	0.0400	1	11/19/2020 14:06	WG1578897
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2020 14:06	WG1578897
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2020 14:06	WG1578897
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2020 14:06	WG1578897
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2020 14:06	WG1578897
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2020 14:06	WG1578897
Vinyl chloride	U	J4	0.0273	0.100	1	11/19/2020 14:06	WG1578897
Xylenes, Total	U		0.191	0.260	1	11/19/2020 14:06	WG1578897
Ethyl Ether	U	J4	0.0170	0.100	1	11/19/2020 14:06	WG1578897
Tetrahydrofuran	U		0.0900	0.500	1	11/19/2020 14:06	WG1578897
Iodomethane	U		0.242	0.500	1	11/19/2020 14:06	WG1578897
Allyl chloride	U		0.580	1.00	1	11/19/2020 14:06	WG1578897
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2020 14:06	WG1578897
(S) Toluene-d8	*111*			*75.0-131*		*11/19/2020 14:06*	WG1578897
(S) Toluene-d8	*101*			*75.0-131*		*11/20/2020 12:27*	WG1579425
(S) 4-Bromofluorobenzene	*142*	J1		*67.0-138*		*11/19/2020 14:06*	WG1578897
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/20/2020 12:27*	WG1579425
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*11/19/2020 14:06*	WG1578897
(S) 1,2-Dichloroethane-d4	*92.9*			*70.0-130*		*11/20/2020 12:27*	WG1579425

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	1940	J	594	5000	1	11/24/2020 01:29	WG1580304

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)	5900		102	1000	1	11/25/2020 21:52	WG1581342

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	5950		28.1	100	1	11/20/2020 16:31	WG1578885
Manganese	790		0.704	5.00	1	11/20/2020 16:31	WG1578885

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	10100		2.87	6.78	10	11/19/2020 16:34	WG1579392
Ethane	U		0.296	1.29	1	11/19/2020 14:21	WG1578180
Ethene	U		0.422	1.27	1	11/19/2020 14:21	WG1578180

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	C3	0.548	1.00	1	11/19/2020 14:26	WG1578897
Acrylonitrile	U		0.0760	0.500	1	11/19/2020 14:26	WG1578897
Benzene	U		0.0160	0.0400	1	11/19/2020 14:26	WG1578897
Bromobenzene	U		0.0420	0.500	1	11/19/2020 14:26	WG1578897
Bromodichloromethane	U		0.0315	0.100	1	11/19/2020 14:26	WG1578897
Bromoform	U		0.239	1.00	1	11/19/2020 14:26	WG1578897
Bromomethane	U		0.148	0.500	1	11/19/2020 14:26	WG1578897
n-Butylbenzene	U		0.153	0.500	1	11/19/2020 14:26	WG1578897
sec-Butylbenzene	U		0.101	0.500	1	11/19/2020 14:26	WG1578897
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2020 14:26	WG1578897
Carbon tetrachloride	U	J4	0.0432	0.200	1	11/19/2020 14:26	WG1578897
Chlorobenzene	U		0.0229	0.100	1	11/19/2020 14:26	WG1578897
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2020 14:26	WG1578897
Chloroethane	U	J4	0.0432	0.200	1	11/19/2020 14:26	WG1578897
Chloroform	U		0.0166	0.100	1	11/19/2020 14:26	WG1578897
Chloromethane	U		0.0556	0.500	1	11/19/2020 14:26	WG1578897
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2020 14:26	WG1578897
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2020 14:26	WG1578897
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2020 14:26	WG1578897
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2020 14:26	WG1578897
Dibromomethane	U		0.0400	0.200	1	11/19/2020 14:26	WG1578897
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2020 14:26	WG1578897
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2020 14:26	WG1578897
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2020 14:26	WG1578897
Dichlorodifluoromethane	U		0.0327	0.100	1	11/19/2020 14:26	WG1578897
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2020 14:26	WG1578897
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2020 14:26	WG1578897
1,1-Dichloroethene	U		0.0200	0.100	1	11/19/2020 14:26	WG1578897
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/19/2020 14:26	WG1578897
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2020 14:26	WG1578897
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2020 14:26	WG1578897

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2020 14:26	WG1578897
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2020 14:26	WG1578897
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2020 14:26	WG1578897
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2020 14:26	WG1578897
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2020 14:26	WG1578897
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2020 14:26	WG1578897
Ethylbenzene	U		0.0212	0.100	1	11/19/2020 14:26	WG1578897
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/19/2020 14:26	WG1578897
Isopropylbenzene	U		0.0345	0.100	1	11/19/2020 14:26	WG1578897
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2020 14:26	WG1578897
2-Butanone (MEK)	U		0.500	1.00	1	11/19/2020 14:26	WG1578897
Methylene Chloride	U		0.265	1.00	1	11/19/2020 14:26	WG1578897
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/19/2020 14:26	WG1578897
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2020 14:26	WG1578897
Naphthalene	U		0.124	0.500	1	11/19/2020 14:26	WG1578897
n-Propylbenzene	U		0.0472	0.200	1	11/19/2020 14:26	WG1578897
Styrene	U		0.109	0.500	1	11/19/2020 14:26	WG1578897
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2020 14:26	WG1578897
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2020 14:26	WG1578897
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2020 14:26	WG1578897
Tetrachloroethene	U		0.0280	0.100	1	11/19/2020 14:26	WG1578897
Toluene	U	C3	0.0500	0.200	1	11/19/2020 14:26	WG1578897
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2020 14:26	WG1578897
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2020 14:26	WG1578897
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2020 14:26	WG1578897
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2020 14:26	WG1578897
Trichloroethene	U		0.0160	0.0400	1	11/19/2020 14:26	WG1578897
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2020 14:26	WG1578897
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2020 14:26	WG1578897
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2020 14:26	WG1578897
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2020 14:26	WG1578897
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2020 14:26	WG1578897
Vinyl chloride	U	J4	0.0273	0.100	1	11/19/2020 14:26	WG1578897
Xylenes, Total	U		0.191	0.260	1	11/19/2020 14:26	WG1578897
Ethyl Ether	U	J4	0.0170	0.100	1	11/19/2020 14:26	WG1578897
Tetrahydrofuran	U		0.0900	0.500	1	11/19/2020 14:26	WG1578897
Iodomethane	U		0.242	0.500	1	11/19/2020 14:26	WG1578897
Allyl chloride	U		0.580	1.00	1	11/19/2020 14:26	WG1578897
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2020 14:26	WG1578897
(S) Toluene-d8	*102*			*75.0-131*		*11/19/2020 14:26*	WG1578897
(S) 4-Bromofluorobenzene	*135*			*67.0-138*		*11/19/2020 14:26*	WG1578897
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*11/19/2020 14:26*	WG1578897

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	0.618	B C3 J	0.548	1.00	1	11/19/2020 14:46	WG1578897
Acrylonitrile	U		0.0760	0.500	1	11/19/2020 14:46	WG1578897
Benzene	U		0.0160	0.0400	1	11/19/2020 14:46	WG1578897
Bromobenzene	U		0.0420	0.500	1	11/19/2020 14:46	WG1578897
Bromodichloromethane	U		0.0315	0.100	1	11/19/2020 14:46	WG1578897
Bromoform	U		0.239	1.00	1	11/19/2020 14:46	WG1578897
Bromomethane	U		0.148	0.500	1	11/19/2020 14:46	WG1578897
n-Butylbenzene	U		0.153	0.500	1	11/19/2020 14:46	WG1578897
sec-Butylbenzene	U		0.101	0.500	1	11/19/2020 14:46	WG1578897
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2020 14:46	WG1578897
Carbon tetrachloride	U	J4	0.0432	0.200	1	11/19/2020 14:46	WG1578897
Chlorobenzene	U		0.0229	0.100	1	11/19/2020 14:46	WG1578897
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2020 14:46	WG1578897
Chloroethane	U	J4	0.0432	0.200	1	11/19/2020 14:46	WG1578897
Chloroform	U		0.0166	0.100	1	11/19/2020 14:46	WG1578897
Chloromethane	U		0.0556	0.500	1	11/19/2020 14:46	WG1578897
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2020 14:46	WG1578897
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2020 14:46	WG1578897
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2020 14:46	WG1578897
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2020 14:46	WG1578897
Dibromomethane	U		0.0400	0.200	1	11/19/2020 14:46	WG1578897
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2020 14:46	WG1578897
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2020 14:46	WG1578897
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2020 14:46	WG1578897
Dichlorodifluoromethane	U		0.0327	0.100	1	11/19/2020 14:46	WG1578897
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2020 14:46	WG1578897
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2020 14:46	WG1578897
1,1-Dichloroethene	U		0.0200	0.100	1	11/19/2020 14:46	WG1578897
cis-1,2-Dichloroethene	0.202		0.0276	0.100	1	11/19/2020 14:46	WG1578897
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2020 14:46	WG1578897
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2020 14:46	WG1578897
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2020 14:46	WG1578897
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2020 14:46	WG1578897
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2020 14:46	WG1578897
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2020 14:46	WG1578897
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2020 14:46	WG1578897
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2020 14:46	WG1578897
Ethylbenzene	U		0.0212	0.100	1	11/19/2020 14:46	WG1578897
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/19/2020 14:46	WG1578897
Isopropylbenzene	U		0.0345	0.100	1	11/19/2020 14:46	WG1578897
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2020 14:46	WG1578897
2-Butanone (MEK)	U		0.500	1.00	1	11/19/2020 14:46	WG1578897
Methylene Chloride	U		0.265	1.00	1	11/19/2020 14:46	WG1578897
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/19/2020 14:46	WG1578897
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2020 14:46	WG1578897
Naphthalene	U		0.124	0.500	1	11/19/2020 14:46	WG1578897
n-Propylbenzene	U		0.0472	0.200	1	11/19/2020 14:46	WG1578897
Styrene	U		0.109	0.500	1	11/19/2020 14:46	WG1578897
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2020 14:46	WG1578897
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2020 14:46	WG1578897
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2020 14:46	WG1578897
Tetrachloroethene	0.112		0.0280	0.100	1	11/19/2020 14:46	WG1578897
Toluene	0.584	C3	0.0500	0.200	1	11/19/2020 14:46	WG1578897
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2020 14:46	WG1578897
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2020 14:46	WG1578897
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2020 14:46	WG1578897

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2020 14:46	WG1578897
Trichloroethene	U		0.0160	0.0400	1	11/19/2020 14:46	WG1578897
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2020 14:46	WG1578897
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2020 14:46	WG1578897
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2020 14:46	WG1578897
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2020 14:46	WG1578897
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2020 14:46	WG1578897
Vinyl chloride	0.102	C5 J4	0.0273	0.100	1	11/19/2020 14:46	WG1578897
Xylenes, Total	U		0.191	0.260	1	11/19/2020 14:46	WG1578897
Ethyl Ether	U	J4	0.0170	0.100	1	11/19/2020 14:46	WG1578897
Tetrahydrofuran	U		0.0900	0.500	1	11/19/2020 14:46	WG1578897
Iodomethane	U		0.242	0.500	1	11/19/2020 14:46	WG1578897
Allyl chloride	U		0.580	1.00	1	11/19/2020 14:46	WG1578897
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2020 14:46	WG1578897
(S) Toluene-d8	*156*	J1		*75.0-131*		*11/19/2020 14:46*	WG1578897
(S) 4-Bromofluorobenzene	*126*			*67.0-138*		*11/19/2020 14:46*	WG1578897
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*11/19/2020 14:46*	WG1578897

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	C3	0.548	1.00	1	11/19/2020 15:07	WG1578897
Acrylonitrile	U		0.0760	0.500	1	11/19/2020 15:07	WG1578897
Benzene	4.20		0.0160	0.0400	1	11/19/2020 15:07	WG1578897
Bromobenzene	U		0.0420	0.500	1	11/19/2020 15:07	WG1578897
Bromodichloromethane	U		0.0315	0.100	1	11/19/2020 15:07	WG1578897
Bromoform	U		0.239	1.00	1	11/19/2020 15:07	WG1578897
Bromomethane	U		0.148	0.500	1	11/19/2020 15:07	WG1578897
n-Butylbenzene	U		0.153	0.500	1	11/19/2020 15:07	WG1578897
sec-Butylbenzene	U		0.101	0.500	1	11/19/2020 15:07	WG1578897
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2020 15:07	WG1578897
Carbon tetrachloride	U	J4	0.0432	0.200	1	11/19/2020 15:07	WG1578897
Chlorobenzene	U		0.0229	0.100	1	11/19/2020 15:07	WG1578897
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2020 15:07	WG1578897
Chloroethane	U	J4	0.0432	0.200	1	11/19/2020 15:07	WG1578897
Chloroform	U		0.0166	0.100	1	11/19/2020 15:07	WG1578897
Chloromethane	U		0.0556	0.500	1	11/19/2020 15:07	WG1578897
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2020 15:07	WG1578897
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2020 15:07	WG1578897
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2020 15:07	WG1578897
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2020 15:07	WG1578897
Dibromomethane	U		0.0400	0.200	1	11/19/2020 15:07	WG1578897
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2020 15:07	WG1578897
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2020 15:07	WG1578897
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2020 15:07	WG1578897
Dichlorodifluoromethane	U		0.0327	0.100	1	11/19/2020 15:07	WG1578897
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2020 15:07	WG1578897
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2020 15:07	WG1578897
1,1-Dichloroethene	U		0.0200	0.100	1	11/19/2020 15:07	WG1578897
cis-1,2-Dichloroethene	0.499		0.0276	0.100	1	11/19/2020 15:07	WG1578897
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2020 15:07	WG1578897
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2020 15:07	WG1578897
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2020 15:07	WG1578897
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2020 15:07	WG1578897
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2020 15:07	WG1578897
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2020 15:07	WG1578897
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2020 15:07	WG1578897
Di-isopropyl ether	0.330		0.0140	0.0400	1	11/19/2020 15:07	WG1578897
Ethylbenzene	U		0.0212	0.100	1	11/19/2020 15:07	WG1578897
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/19/2020 15:07	WG1578897
Isopropylbenzene	U		0.0345	0.100	1	11/19/2020 15:07	WG1578897
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2020 15:07	WG1578897
2-Butanone (MEK)	U		0.500	1.00	1	11/19/2020 15:07	WG1578897
Methylene Chloride	U		0.265	1.00	1	11/19/2020 15:07	WG1578897
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/19/2020 15:07	WG1578897
Methyl tert-butyl ether	0.270		0.0118	0.0400	1	11/19/2020 15:07	WG1578897
Naphthalene	U		0.124	0.500	1	11/19/2020 15:07	WG1578897
n-Propylbenzene	U		0.0472	0.200	1	11/19/2020 15:07	WG1578897
Styrene	U		0.109	0.500	1	11/19/2020 15:07	WG1578897
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2020 15:07	WG1578897
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2020 15:07	WG1578897
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2020 15:07	WG1578897
Tetrachloroethene	U		0.0280	0.100	1	11/19/2020 15:07	WG1578897
Toluene	0.224	C3	0.0500	0.200	1	11/19/2020 15:07	WG1578897
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2020 15:07	WG1578897
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2020 15:07	WG1578897
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2020 15:07	WG1578897

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2020 15:07	WG1578897
Trichloroethene	U		0.0160	0.0400	1	11/19/2020 15:07	WG1578897
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2020 15:07	WG1578897
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2020 15:07	WG1578897
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2020 15:07	WG1578897
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2020 15:07	WG1578897
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2020 15:07	WG1578897
Vinyl chloride	0.865	C5 J4	0.0273	0.100	1	11/19/2020 15:07	WG1578897
Xylenes, Total	0.229	J	0.191	0.260	1	11/19/2020 15:07	WG1578897
Ethyl Ether	1.20	C5 J4	0.0170	0.100	1	11/19/2020 15:07	WG1578897
Tetrahydrofuran	U		0.0900	0.500	1	11/19/2020 15:07	WG1578897
Iodomethane	U		0.242	0.500	1	11/19/2020 15:07	WG1578897
Allyl chloride	U		0.580	1.00	1	11/19/2020 15:07	WG1578897
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2020 15:07	WG1578897
(S) Toluene-d8	*101*			*75.0-131*		*11/19/2020 15:07*	WG1578897
(S) 4-Bromofluorobenzene	*137*			*67.0-138*		*11/19/2020 15:07*	WG1578897
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*11/19/2020 15:07*	WG1578897

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	170000		2970	25000	5	11/24/2020 02:06	WG1580304

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)	7330		102	1000	1	11/25/2020 22:18	WG1581342

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	7990		28.1	100	1	11/20/2020 16:43	WG1578885
Manganese	1560		0.704	5.00	1	11/20/2020 16:43	WG1578885

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	641		0.287	0.678	1	11/19/2020 14:23	WG1578180
Ethane	3.90		0.296	1.29	1	11/19/2020 14:23	WG1578180
Ethene	U		0.422	1.27	1	11/19/2020 14:23	WG1578180

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	0.691	B C3 J	0.548	1.00	1	11/19/2020 15:27	WG1578897
Acrylonitrile	U		0.0760	0.500	1	11/19/2020 15:27	WG1578897
Benzene	U		0.0160	0.0400	1	11/19/2020 15:27	WG1578897
Bromobenzene	U		0.0420	0.500	1	11/19/2020 15:27	WG1578897
Bromodichloromethane	U		0.0315	0.100	1	11/19/2020 15:27	WG1578897
Bromoform	U		0.239	1.00	1	11/19/2020 15:27	WG1578897
Bromomethane	U		0.148	0.500	1	11/19/2020 15:27	WG1578897
n-Butylbenzene	U		0.153	0.500	1	11/19/2020 15:27	WG1578897
sec-Butylbenzene	U		0.101	0.500	1	11/19/2020 15:27	WG1578897
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2020 15:27	WG1578897
Carbon tetrachloride	U	J4	0.0432	0.200	1	11/19/2020 15:27	WG1578897
Chlorobenzene	U		0.0229	0.100	1	11/19/2020 15:27	WG1578897
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2020 15:27	WG1578897
Chloroethane	U	J4	0.0432	0.200	1	11/19/2020 15:27	WG1578897
Chloroform	U		0.0166	0.100	1	11/19/2020 15:27	WG1578897
Chloromethane	U		0.0556	0.500	1	11/19/2020 15:27	WG1578897
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2020 15:27	WG1578897
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2020 15:27	WG1578897
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2020 15:27	WG1578897
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2020 15:27	WG1578897
Dibromomethane	U		0.0400	0.200	1	11/19/2020 15:27	WG1578897
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2020 15:27	WG1578897
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2020 15:27	WG1578897
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2020 15:27	WG1578897
Dichlorodifluoromethane	U		0.0327	0.100	1	11/19/2020 15:27	WG1578897
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2020 15:27	WG1578897
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2020 15:27	WG1578897
1,1-Dichloroethene	U		0.0200	0.100	1	11/19/2020 15:27	WG1578897
cis-1,2-Dichloroethene	0.308		0.0276	0.100	1	11/19/2020 15:27	WG1578897
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2020 15:27	WG1578897
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2020 15:27	WG1578897

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2020 15:27	WG1578897
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2020 15:27	WG1578897
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2020 15:27	WG1578897
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2020 15:27	WG1578897
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2020 15:27	WG1578897
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2020 15:27	WG1578897
Ethylbenzene	U		0.0212	0.100	1	11/19/2020 15:27	WG1578897
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/19/2020 15:27	WG1578897
Isopropylbenzene	U		0.0345	0.100	1	11/19/2020 15:27	WG1578897
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2020 15:27	WG1578897
2-Butanone (MEK)	U		0.500	1.00	1	11/19/2020 15:27	WG1578897
Methylene Chloride	U		0.265	1.00	1	11/19/2020 15:27	WG1578897
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/19/2020 15:27	WG1578897
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2020 15:27	WG1578897
Naphthalene	U		0.124	0.500	1	11/19/2020 15:27	WG1578897
n-Propylbenzene	U		0.0472	0.200	1	11/19/2020 15:27	WG1578897
Styrene	U		0.109	0.500	1	11/19/2020 15:27	WG1578897
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2020 15:27	WG1578897
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2020 15:27	WG1578897
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2020 15:27	WG1578897
Tetrachloroethene	U		0.0280	0.100	1	11/19/2020 15:27	WG1578897
Toluene	0.221	C3	0.0500	0.200	1	11/19/2020 15:27	WG1578897
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2020 15:27	WG1578897
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2020 15:27	WG1578897
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2020 15:27	WG1578897
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2020 15:27	WG1578897
Trichloroethene	U		0.0160	0.0400	1	11/19/2020 15:27	WG1578897
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2020 15:27	WG1578897
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2020 15:27	WG1578897
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2020 15:27	WG1578897
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2020 15:27	WG1578897
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2020 15:27	WG1578897
Vinyl chloride	0.808	C5 J4	0.0273	0.100	1	11/19/2020 15:27	WG1578897
Xylenes, Total	U		0.191	0.260	1	11/19/2020 15:27	WG1578897
Ethyl Ether	0.195	C5 J4	0.0170	0.100	1	11/19/2020 15:27	WG1578897
Tetrahydrofuran	U		0.0900	0.500	1	11/19/2020 15:27	WG1578897
Iodomethane	U		0.242	0.500	1	11/19/2020 15:27	WG1578897
Allyl chloride	U		0.580	1.00	1	11/19/2020 15:27	WG1578897
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2020 15:27	WG1578897
(S) Toluene-d8	*127*			*75.0-131*		*11/19/2020 15:27*	WG1578897
(S) 4-Bromofluorobenzene	*111*			*67.0-138*		*11/19/2020 15:27*	WG1578897
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*11/19/2020 15:27*	WG1578897

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	C3	0.548	1.00	1	11/19/2020 15:47	WG1578897
Acrylonitrile	U		0.0760	0.500	1	11/19/2020 15:47	WG1578897
Benzene	U		0.0160	0.0400	1	11/19/2020 15:47	WG1578897
Bromobenzene	U		0.0420	0.500	1	11/19/2020 15:47	WG1578897
Bromodichloromethane	U		0.0315	0.100	1	11/19/2020 15:47	WG1578897
Bromoform	U		0.239	1.00	1	11/19/2020 15:47	WG1578897
Bromomethane	U		0.148	0.500	1	11/19/2020 15:47	WG1578897
n-Butylbenzene	U		0.153	0.500	1	11/19/2020 15:47	WG1578897
sec-Butylbenzene	U		0.101	0.500	1	11/19/2020 15:47	WG1578897
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2020 15:47	WG1578897
Carbon tetrachloride	U	J4	0.0432	0.200	1	11/19/2020 15:47	WG1578897
Chlorobenzene	U		0.0229	0.100	1	11/19/2020 15:47	WG1578897
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2020 15:47	WG1578897
Chloroethane	U	J4	0.0432	0.200	1	11/19/2020 15:47	WG1578897
Chloroform	U		0.0166	0.100	1	11/19/2020 15:47	WG1578897
Chloromethane	U		0.0556	0.500	1	11/19/2020 15:47	WG1578897
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2020 15:47	WG1578897
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2020 15:47	WG1578897
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2020 15:47	WG1578897
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2020 15:47	WG1578897
Dibromomethane	U		0.0400	0.200	1	11/19/2020 15:47	WG1578897
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2020 15:47	WG1578897
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2020 15:47	WG1578897
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2020 15:47	WG1578897
Dichlorodifluoromethane	U		0.0327	0.100	1	11/19/2020 15:47	WG1578897
1,1-Dichloroethane	0.176		0.0230	0.100	1	11/19/2020 15:47	WG1578897
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2020 15:47	WG1578897
1,1-Dichloroethene	0.143		0.0200	0.100	1	11/19/2020 15:47	WG1578897
cis-1,2-Dichloroethene	47.6		0.0276	0.100	1	11/19/2020 15:47	WG1578897
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2020 15:47	WG1578897
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2020 15:47	WG1578897
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2020 15:47	WG1578897
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2020 15:47	WG1578897
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2020 15:47	WG1578897
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2020 15:47	WG1578897
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2020 15:47	WG1578897
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2020 15:47	WG1578897
Ethylbenzene	U		0.0212	0.100	1	11/19/2020 15:47	WG1578897
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/19/2020 15:47	WG1578897
Isopropylbenzene	U		0.0345	0.100	1	11/19/2020 15:47	WG1578897
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2020 15:47	WG1578897
2-Butanone (MEK)	U		0.500	1.00	1	11/19/2020 15:47	WG1578897
Methylene Chloride	U		0.265	1.00	1	11/19/2020 15:47	WG1578897
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/19/2020 15:47	WG1578897
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2020 15:47	WG1578897
Naphthalene	U		0.124	0.500	1	11/19/2020 15:47	WG1578897
n-Propylbenzene	U		0.0472	0.200	1	11/19/2020 15:47	WG1578897
Styrene	U		0.109	0.500	1	11/19/2020 15:47	WG1578897
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2020 15:47	WG1578897
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2020 15:47	WG1578897
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2020 15:47	WG1578897
Tetrachloroethene	0.110		0.0280	0.100	1	11/19/2020 15:47	WG1578897
Toluene	U	C3	0.0500	0.200	1	11/19/2020 15:47	WG1578897
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2020 15:47	WG1578897
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2020 15:47	WG1578897
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2020 15:47	WG1578897

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2020 15:47	WG1578897
Trichloroethene	13.9		0.0160	0.0400	1	11/19/2020 15:47	WG1578897
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2020 15:47	WG1578897
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2020 15:47	WG1578897
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2020 15:47	WG1578897
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2020 15:47	WG1578897
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2020 15:47	WG1578897
Vinyl chloride	4.58	C5 J4	0.0273	0.100	1	11/19/2020 15:47	WG1578897
Xylenes, Total	U		0.191	0.260	1	11/19/2020 15:47	WG1578897
Ethyl Ether	U	J4	0.0170	0.100	1	11/19/2020 15:47	WG1578897
Tetrahydrofuran	U		0.0900	0.500	1	11/19/2020 15:47	WG1578897
Iodomethane	U		0.242	0.500	1	11/19/2020 15:47	WG1578897
Allyl chloride	U		0.580	1.00	1	11/19/2020 15:47	WG1578897
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2020 15:47	WG1578897
(S) Toluene-d8	*105*			*75.0-131*		*11/19/2020 15:47*	WG1578897
(S) 4-Bromofluorobenzene	*135*			*67.0-138*		*11/19/2020 15:47*	WG1578897
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*11/19/2020 15:47*	WG1578897

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	0.640	C3 J	0.548	1.00	1	11/22/2020 14:15	WG1580676
Acrylonitrile	U	C3	0.0760	0.500	1	11/22/2020 14:15	WG1580676
Benzene	U		0.0160	0.0400	1	11/22/2020 14:15	WG1580676
Bromobenzene	U		0.0420	0.500	1	11/22/2020 14:15	WG1580676
Bromodichloromethane	U		0.0315	0.100	1	11/22/2020 14:15	WG1580676
Bromoform	U		0.239	1.00	1	11/22/2020 14:15	WG1580676
Bromomethane	U	J4	0.148	0.500	1	11/22/2020 14:15	WG1580676
n-Butylbenzene	U		0.153	0.500	1	11/22/2020 14:15	WG1580676
sec-Butylbenzene	U		0.101	0.500	1	11/22/2020 14:15	WG1580676
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2020 14:15	WG1580676
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2020 14:15	WG1580676
Chlorobenzene	U		0.0229	0.100	1	11/22/2020 14:15	WG1580676
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2020 14:15	WG1580676
Chloroethane	U		0.0432	0.200	1	11/22/2020 14:15	WG1580676
Chloroform	U		0.0166	0.100	1	11/22/2020 14:15	WG1580676
Chloromethane	U	C3	0.0556	0.500	1	11/22/2020 14:15	WG1580676
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2020 14:15	WG1580676
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2020 14:15	WG1580676
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2020 14:15	WG1580676
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2020 14:15	WG1580676
Dibromomethane	U		0.0400	0.200	1	11/22/2020 14:15	WG1580676
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2020 14:15	WG1580676
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2020 14:15	WG1580676
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2020 14:15	WG1580676
Dichlorodifluoromethane	U	J3	0.0327	0.100	1	11/22/2020 14:15	WG1580676
1,1-Dichloroethane	0.103		0.0230	0.100	1	11/22/2020 14:15	WG1580676
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2020 14:15	WG1580676
1,1-Dichloroethene	U	C3	0.0200	0.100	1	11/22/2020 14:15	WG1580676
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/22/2020 14:15	WG1580676
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2020 14:15	WG1580676
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2020 14:15	WG1580676
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2020 14:15	WG1580676
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2020 14:15	WG1580676
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2020 14:15	WG1580676
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2020 14:15	WG1580676
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2020 14:15	WG1580676
Di-isopropyl ether	0.0222	C3 J	0.0140	0.0400	1	11/22/2020 14:15	WG1580676
Ethylbenzene	0.0217	J	0.0212	0.100	1	11/22/2020 14:15	WG1580676
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/22/2020 14:15	WG1580676
Isopropylbenzene	U		0.0345	0.100	1	11/22/2020 14:15	WG1580676
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2020 14:15	WG1580676
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/22/2020 14:15	WG1580676
Methylene Chloride	U		0.265	1.00	1	11/22/2020 14:15	WG1580676
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/22/2020 14:15	WG1580676
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2020 14:15	WG1580676
Naphthalene	U		0.124	0.500	1	11/22/2020 14:15	WG1580676
n-Propylbenzene	U		0.0472	0.200	1	11/22/2020 14:15	WG1580676
Styrene	U		0.109	0.500	1	11/22/2020 14:15	WG1580676
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2020 14:15	WG1580676
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2020 14:15	WG1580676
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/24/2020 17:23	WG1581939
Tetrachloroethene	U		0.0280	0.100	1	11/22/2020 14:15	WG1580676
Toluene	0.296		0.0500	0.200	1	11/22/2020 14:15	WG1580676
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2020 14:15	WG1580676
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/22/2020 14:15	WG1580676
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2020 14:15	WG1580676

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2020 14:15	WG1580676
Trichloroethene	U		0.0160	0.0400	1	11/22/2020 14:15	WG1580676
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2020 14:15	WG1580676
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2020 14:15	WG1580676
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2020 14:15	WG1580676
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2020 14:15	WG1580676
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2020 14:15	WG1580676
Vinyl chloride	U		0.0273	0.100	1	11/22/2020 14:15	WG1580676
Xylenes, Total	0.236	J	0.191	0.260	1	11/22/2020 14:15	WG1580676
Ethyl Ether	0.112		0.0170	0.100	1	11/22/2020 14:15	WG1580676
Tetrahydrofuran	U	C3	0.0900	0.500	1	11/22/2020 14:15	WG1580676
Iodomethane	U		0.242	0.500	1	11/22/2020 14:15	WG1580676
Allyl chloride	U		0.580	1.00	1	11/22/2020 14:15	WG1580676
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2020 14:15	WG1580676
(S) Toluene-d8	*100*			*75.0-131*		*11/22/2020 14:15*	WG1580676
(S) Toluene-d8	*98.4*			*75.0-131*		*11/24/2020 17:23*	WG1581939
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*11/22/2020 14:15*	WG1580676
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*11/24/2020 17:23*	WG1581939
(S) 1,2-Dichloroethane-d4	*94.1*			*70.0-130*		*11/22/2020 14:15*	WG1580676
(S) 1,2-Dichloroethane-d4	*129*			*70.0-130*		*11/24/2020 17:23*	WG1581939

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	U		594	5000	1	11/24/2020 02:24	WG1580304

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)	375	B J	102	1000	1	11/25/2020 15:00	WG1582403

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	U		28.1	100	1	11/20/2020 16:46	WG1578885
Manganese	2.20	J	0.704	5.00	1	11/20/2020 16:46	WG1578885

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	11/19/2020 14:27	WG1578180
Ethane	U		0.296	1.29	1	11/19/2020 14:27	WG1578180
Ethene	U		0.422	1.27	1	11/19/2020 14:27	WG1578180

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.08	C3	0.548	1.00	1	11/22/2020 12:33	WG1580676
Acrylonitrile	U	C3	0.0760	0.500	1	11/22/2020 12:33	WG1580676
Benzene	U		0.0160	0.0400	1	11/22/2020 12:33	WG1580676
Bromobenzene	U		0.0420	0.500	1	11/22/2020 12:33	WG1580676
Bromodichloromethane	U		0.0315	0.100	1	11/22/2020 12:33	WG1580676
Bromoform	U		0.239	1.00	1	11/22/2020 12:33	WG1580676
Bromomethane	U	J4	0.148	0.500	1	11/22/2020 12:33	WG1580676
n-Butylbenzene	U		0.153	0.500	1	11/22/2020 12:33	WG1580676
sec-Butylbenzene	U		0.101	0.500	1	11/22/2020 12:33	WG1580676
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2020 12:33	WG1580676
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2020 12:33	WG1580676
Chlorobenzene	U		0.0229	0.100	1	11/22/2020 12:33	WG1580676
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2020 12:33	WG1580676
Chloroethane	U		0.0432	0.200	1	11/22/2020 12:33	WG1580676
Chloroform	U		0.0166	0.100	1	11/22/2020 12:33	WG1580676
Chloromethane	U	C3	0.0556	0.500	1	11/22/2020 12:33	WG1580676
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2020 12:33	WG1580676
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2020 12:33	WG1580676
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2020 12:33	WG1580676
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2020 12:33	WG1580676
Dibromomethane	U		0.0400	0.200	1	11/22/2020 12:33	WG1580676
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2020 12:33	WG1580676
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2020 12:33	WG1580676
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2020 12:33	WG1580676
Dichlorodifluoromethane	U	J3	0.0327	0.100	1	11/22/2020 12:33	WG1580676
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2020 12:33	WG1580676
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2020 12:33	WG1580676
1,1-Dichloroethene	U	C3	0.0200	0.100	1	11/22/2020 12:33	WG1580676
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/22/2020 12:33	WG1580676
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2020 12:33	WG1580676
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2020 12:33	WG1580676

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2020 12:33	WG1580676
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2020 12:33	WG1580676
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2020 12:33	WG1580676
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2020 12:33	WG1580676
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2020 12:33	WG1580676
Di-isopropyl ether	U	C3	0.0140	0.0400	1	11/22/2020 12:33	WG1580676
Ethylbenzene	U		0.0212	0.100	1	11/22/2020 12:33	WG1580676
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/22/2020 12:33	WG1580676
Isopropylbenzene	U		0.0345	0.100	1	11/22/2020 12:33	WG1580676
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2020 12:33	WG1580676
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/22/2020 12:33	WG1580676
Methylene Chloride	U		0.265	1.00	1	11/22/2020 12:33	WG1580676
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/22/2020 12:33	WG1580676
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2020 12:33	WG1580676
Naphthalene	U		0.124	0.500	1	11/22/2020 12:33	WG1580676
n-Propylbenzene	U		0.0472	0.200	1	11/22/2020 12:33	WG1580676
Styrene	U		0.109	0.500	1	11/22/2020 12:33	WG1580676
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2020 12:33	WG1580676
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2020 12:33	WG1580676
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/24/2020 17:41	WG1581939
Tetrachloroethene	U		0.0280	0.100	1	11/22/2020 12:33	WG1580676
Toluene	U		0.0500	0.200	1	11/22/2020 12:33	WG1580676
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2020 12:33	WG1580676
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/22/2020 12:33	WG1580676
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2020 12:33	WG1580676
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2020 12:33	WG1580676
Trichloroethene	U		0.0160	0.0400	1	11/22/2020 12:33	WG1580676
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2020 12:33	WG1580676
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2020 12:33	WG1580676
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2020 12:33	WG1580676
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2020 12:33	WG1580676
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2020 12:33	WG1580676
Vinyl chloride	U		0.0273	0.100	1	11/22/2020 12:33	WG1580676
Xylenes, Total	U		0.191	0.260	1	11/22/2020 12:33	WG1580676
Ethyl Ether	U		0.0170	0.100	1	11/22/2020 12:33	WG1580676
Tetrahydrofuran	U	C3	0.0900	0.500	1	11/22/2020 12:33	WG1580676
Iodomethane	U		0.242	0.500	1	11/22/2020 12:33	WG1580676
Allyl chloride	U		0.580	1.00	1	11/22/2020 12:33	WG1580676
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2020 12:33	WG1580676
(S) Toluene-d8	*102*			*75.0-131*		*11/22/2020 12:33*	WG1580676
(S) Toluene-d8	*101*			*75.0-131*		*11/24/2020 17:41*	WG1581939
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*11/22/2020 12:33*	WG1580676
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*11/24/2020 17:41*	WG1581939
(S) 1,2-Dichloroethane-d4	*93.7*			*70.0-130*		*11/22/2020 12:33*	WG1580676
(S) 1,2-Dichloroethane-d4	*129*			*70.0-130*		*11/24/2020 17:41*	WG1581939

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	C3	0.548	1.00	1	11/22/2020 11:52	WG1580676
Acrylonitrile	U	C3	0.0760	0.500	1	11/22/2020 11:52	WG1580676
Benzene	U		0.0160	0.0400	1	11/22/2020 11:52	WG1580676
Bromobenzene	U		0.0420	0.500	1	11/22/2020 11:52	WG1580676
Bromodichloromethane	U		0.0315	0.100	1	11/22/2020 11:52	WG1580676
Bromoform	U		0.239	1.00	1	11/22/2020 11:52	WG1580676
Bromomethane	U	J4	0.148	0.500	1	11/22/2020 11:52	WG1580676
n-Butylbenzene	U		0.153	0.500	1	11/22/2020 11:52	WG1580676
sec-Butylbenzene	U		0.101	0.500	1	11/22/2020 11:52	WG1580676
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2020 11:52	WG1580676
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2020 11:52	WG1580676
Chlorobenzene	U		0.0229	0.100	1	11/22/2020 11:52	WG1580676
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2020 11:52	WG1580676
Chloroethane	U		0.0432	0.200	1	11/22/2020 11:52	WG1580676
Chloroform	U		0.0166	0.100	1	11/22/2020 11:52	WG1580676
Chloromethane	U	C3	0.0556	0.500	1	11/22/2020 11:52	WG1580676
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2020 11:52	WG1580676
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2020 11:52	WG1580676
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2020 11:52	WG1580676
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2020 11:52	WG1580676
Dibromomethane	U		0.0400	0.200	1	11/22/2020 11:52	WG1580676
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2020 11:52	WG1580676
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2020 11:52	WG1580676
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2020 11:52	WG1580676
Dichlorodifluoromethane	U	J3	0.0327	0.100	1	11/22/2020 11:52	WG1580676
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2020 11:52	WG1580676
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2020 11:52	WG1580676
1,1-Dichloroethene	U	C3	0.0200	0.100	1	11/22/2020 11:52	WG1580676
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/22/2020 11:52	WG1580676
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2020 11:52	WG1580676
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2020 11:52	WG1580676
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2020 11:52	WG1580676
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2020 11:52	WG1580676
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2020 11:52	WG1580676
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2020 11:52	WG1580676
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2020 11:52	WG1580676
Di-isopropyl ether	U	C3	0.0140	0.0400	1	11/22/2020 11:52	WG1580676
Ethylbenzene	U		0.0212	0.100	1	11/22/2020 11:52	WG1580676
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/22/2020 11:52	WG1580676
Isopropylbenzene	U		0.0345	0.100	1	11/22/2020 11:52	WG1580676
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2020 11:52	WG1580676
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/22/2020 11:52	WG1580676
Methylene Chloride	U		0.265	1.00	1	11/22/2020 11:52	WG1580676
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/22/2020 11:52	WG1580676
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2020 11:52	WG1580676
Naphthalene	U		0.124	0.500	1	11/22/2020 11:52	WG1580676
n-Propylbenzene	U		0.0472	0.200	1	11/22/2020 11:52	WG1580676
Styrene	U		0.109	0.500	1	11/22/2020 11:52	WG1580676
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2020 11:52	WG1580676
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2020 11:52	WG1580676
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/24/2020 15:29	WG1581939
Tetrachloroethene	U		0.0280	0.100	1	11/22/2020 11:52	WG1580676
Toluene	U		0.0500	0.200	1	11/22/2020 11:52	WG1580676
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2020 11:52	WG1580676
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/22/2020 11:52	WG1580676
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2020 11:52	WG1580676

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2020 11:52	WG1580676
Trichloroethene	U		0.0160	0.0400	1	11/22/2020 11:52	WG1580676
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2020 11:52	WG1580676
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2020 11:52	WG1580676
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2020 11:52	WG1580676
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2020 11:52	WG1580676
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2020 11:52	WG1580676
Vinyl chloride	U		0.0273	0.100	1	11/22/2020 11:52	WG1580676
Xylenes, Total	U		0.191	0.260	1	11/22/2020 11:52	WG1580676
Ethyl Ether	U		0.0170	0.100	1	11/22/2020 11:52	WG1580676
Tetrahydrofuran	U	C3	0.0900	0.500	1	11/22/2020 11:52	WG1580676
Iodomethane	U		0.242	0.500	1	11/22/2020 11:52	WG1580676
Allyl chloride	U		0.580	1.00	1	11/22/2020 11:52	WG1580676
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2020 11:52	WG1580676
(S) Toluene-d8	*102*			*75.0-131*		*11/22/2020 11:52*	WG1580676
(S) Toluene-d8	*97.5*			*75.0-131*		*11/24/2020 15:29*	WG1581939
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/22/2020 11:52*	WG1580676
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*11/24/2020 15:29*	WG1581939
(S) 1,2-Dichloroethane-d4	*92.7*			*70.0-130*		*11/22/2020 11:52*	WG1580676
(S) 1,2-Dichloroethane-d4	*131*	J1		*70.0-130*		*11/24/2020 15:29*	WG1581939

Method Blank (MB)

(MB) R3596813-1 11/23/20 16:44

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Sulfate	U		594	5000

L1285779-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1285779-04 11/24/20 00:52 • (DUP) R3596813-6 11/24/20 01:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Sulfate	175000	177000	5	1.38		15

L1283167-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1283167-01 11/24/20 03:01 • (DUP) R3596813-8 11/24/20 03:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Sulfate	124000	123000	5	0.388		15

Laboratory Control Sample (LCS)

(LCS) R3596813-2 11/23/20 17:03

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Sulfate	40000	40500	101	80.0-120	

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3596813-4 11/23/20 22:25 • (MSD) R3596813-5 11/23/20 22:43

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	%	%		%			%	%
Sulfate	50000		65000	66600	104	107	1	80.0-120			2.45	15

L1285785-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1285785-03 11/24/20 01:29 • (MS) R3596813-7 11/24/20 01:47

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	ug/l	ug/l	ug/l	%		%	
Sulfate	50000	1940	53500	103	1	80.0-120	

Method Blank (MB)

(MB) R3597704-1 11/24/20 13:43

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	U		102	1000

L1283203-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1283203-07 11/25/20 12:54 • (DUP) R3597704-5 11/25/20 13:21

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	1030	1050	1	2.52		20

L1285736-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1285736-20 11/25/20 19:12 • (DUP) R3597704-8 11/25/20 19:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	1560	1740	1	10.9		20

Laboratory Control Sample (LCS)

(LCS) R3597704-2 11/24/20 14:36

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	75000	76300	102	85.0-115	

L1283203-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283203-02 11/24/20 18:33 • (MS) R3597704-3 11/24/20 19:00 • (MSD) R3597704-4 11/24/20 19:27

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	%	%		%			%	%
TOC (Total Organic Carbon)	50000	1710	50800	50000	98.1	96.5	1	80.0-120			1.59	20

L1283203-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283203-09 11/25/20 14:19 • (MS) R3597704-6 11/25/20 14:45 • (MSD) R3597704-7 11/25/20 15:11

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	%	%		%			%	%
TOC (Total Organic Carbon)	50000	262	49100	50800	97.6	101	1	80.0-120			3.47	20

Method Blank (MB)

(MB) R3597821-1 11/25/20 12:36

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	470	J	102	1000

L1285876-31 Original Sample (OS) • Duplicate (DUP)

(OS) L1285876-31 11/25/20 23:36 • (DUP) R3597821-6 11/25/20 23:48

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	1050	1020	1	2.51		20

L1285863-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1285863-04 11/26/20 17:32 • (DUP) R3597821-9 11/26/20 17:49

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	2890	3100	1	7.14		20

Laboratory Control Sample (LCS)

(LCS) R3597821-2 11/25/20 13:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	72300	96.4	85.0-115	

L1285785-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1285785-09 11/25/20 15:00 • (MS) R3597821-3 11/25/20 15:21 • (MSD) R3597821-4 11/25/20 15:41

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 (Total Organic Carbon)	50000	375	45700	47300	90.6	93.9	1	80.0-120			3.50	20

L1285876-32 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1285876-32 11/26/20 00:01 • (MS) R3597821-7 11/26/20 00:23 • (MSD) R3597821-8 11/26/20 00:43

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 (Total Organic Carbon)	50000	2410	51400	48400	97.9	91.9	1	80.0-120			6.00	20

Method Blank (MB)

(MB) R3595675-1 11/20/20 16:02

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

Laboratory Control Sample (LCS)

(LCS) R3595675-2 11/20/20 16:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	5000	5160	103	80.0-120	
Manganese	50.0	53.9	108	80.0-120	

L1283203-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1283203-11 11/20/20 16:08 • (MS) R3595675-4 11/20/20 16:15 • (MSD) R3595675-5 11/20/20 16:18

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	%	%		%			%	%
Iron	5000		5220	5050	103	99.0	1	75.0-125			3.46	20
Manganese	50.0		53.1	51.9	103	101	1	75.0-125			2.19	20

Method Blank (MB)

(MB) R3595042-2 11/19/20 11:47

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

L1285332-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1285332-01 11/19/20 11:52 • (DUP) R3595042-3 11/19/20 13:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	40.7	39.4	1	3.25		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1285330-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1285330-05 11/19/20 14:29 • (DUP) R3595042-4 11/19/20 14:34

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	63.5	63.3	1	0.315		20
Ethane	5.59	5.44	1	2.72		20
Ethene	U	U	1	0.000		20

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

(LCS) R3595042-1 11/19/20 11:42 • (LCSD) R3595042-5 11/19/20 14:38

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	71.2	69.4	105	102	85.0-115			2.56	20
Ethane	129	131	132	102	102	85.0-115			0.760	20
Ethene	127	128	130	101	102	85.0-115			1.55	20

Method Blank (MB)

(MB) R3595156-2 11/19/20 16:27

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678

L1285736-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1285736-22 11/19/20 16:30 • (DUP) R3595156-3 11/19/20 16:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	9540	8850	10	7.50		20

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

(LCS) R3595156-1 11/19/20 15:57 • (LCSD) R3595156-4 11/19/20 16:45

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	67.5	66.4	99.6	97.9	85.0-115			1.64	20

Method Blank (MB)

(MB) R3595003-2 11/19/20 08:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	0.771	J	0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100

Method Blank (MB)

(MB) R3595003-2 11/19/20 08:40

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*127*			*75.0-131*
(S) 4-Bromofluorobenzene	*108*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3595003-1 11/19/20 06:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	19.3	77.2	10.0-160	
Acrylonitrile	25.0	25.1	100	45.0-153	
Benzene	5.00	5.00	100	70.0-123	
Bromobenzene	5.00	4.11	82.2	73.0-121	
Bromodichloromethane	5.00	5.26	105	73.0-121	
Bromoform	5.00	4.56	91.2	64.0-132	
Bromomethane	5.00	6.67	133	56.0-147	
n-Butylbenzene	5.00	5.35	107	68.0-135	
sec-Butylbenzene	5.00	4.87	97.4	74.0-130	
tert-Butylbenzene	5.00	4.90	98.0	75.0-127	
Carbon tetrachloride	5.00	6.47	129	66.0-128	J4
Chlorobenzene	5.00	4.91	98.2	76.0-128	
Chlorodibromomethane	5.00	5.18	104	74.0-127	
Chloroethane	5.00	7.45	149	61.0-134	J4
Chloroform	5.00	5.46	109	72.0-123	
Chloromethane	5.00	6.28	126	51.0-138	
2-Chlorotoluene	5.00	4.53	90.6	75.0-124	
4-Chlorotoluene	5.00	4.48	89.6	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	4.84	96.8	59.0-130	
1,2-Dibromoethane	5.00	5.05	101	74.0-128	
Dibromomethane	5.00	5.24	105	75.0-122	
1,2-Dichlorobenzene	5.00	5.56	111	76.0-124	
1,3-Dichlorobenzene	5.00	4.96	99.2	76.0-125	
1,4-Dichlorobenzene	5.00	4.79	95.8	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	3.54	70.8	45.0-143	
Dichlorodifluoromethane	5.00	6.08	122	43.0-156	
1,1-Dichloroethane	5.00	5.04	101	70.0-127	
1,2-Dichloroethane	5.00	5.55	111	65.0-131	
1,1-Dichloroethene	5.00	5.37	107	65.0-131	
cis-1,2-Dichloroethene	5.00	5.34	107	73.0-125	
trans-1,2-Dichloroethene	5.00	5.08	102	71.0-125	
1,2-Dichloropropane	5.00	4.90	98.0	74.0-125	
1,1-Dichloropropene	5.00	5.46	109	73.0-125	
1,3-Dichloropropane	5.00	4.96	99.2	80.0-125	
cis-1,3-Dichloropropene	5.00	5.22	104	76.0-127	
trans-1,3-Dichloropropene	5.00	4.37	87.4	73.0-127	
2,2-Dichloropropane	5.00	6.33	127	59.0-135	
Di-isopropyl ether	5.00	4.81	96.2	60.0-136	
Ethylbenzene	5.00	4.93	98.6	74.0-126	
Ethyl ether	5.00	7.81	156	64.0-137	J4

Laboratory Control Sample (LCS)

(LCS) R3595003-1 11/19/20 06:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexachloro-1,3-butadiene	5.00	5.69	114	57.0-150	
Iodomethane	25.0	28.1	112	74.0-134	
Isopropylbenzene	5.00	4.33	86.6	72.0-127	
p-Isopropyltoluene	5.00	5.00	100	72.0-133	
2-Butanone (MEK)	25.0	24.0	96.0	30.0-160	
Methylene Chloride	5.00	4.30	86.0	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	19.7	78.8	56.0-143	
Methyl tert-butyl ether	5.00	5.84	117	66.0-132	
Naphthalene	5.00	4.85	97.0	59.0-130	
n-Propylbenzene	5.00	4.46	89.2	74.0-126	
Styrene	5.00	4.14	82.8	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	5.26	105	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	4.00	80.0	68.0-128	
Tetrachloroethene	5.00	4.57	91.4	70.0-136	
Tetrahydrofuran	5.00	4.24	84.8	37.0-146	
Toluene	5.00	3.89	77.8	75.0-121	
1,1,2-Trichlorotrifluoroethane	5.00	4.92	98.4	61.0-139	
1,2,3-Trichlorobenzene	5.00	5.24	105	59.0-139	
1,2,4-Trichlorobenzene	5.00	5.37	107	62.0-137	
1,1,1-Trichloroethane	5.00	6.03	121	69.0-126	
1,1,2-Trichloroethane	5.00	4.39	87.8	78.0-123	
Trichloroethene	5.00	5.74	115	76.0-126	
Trichlorofluoromethane	5.00	6.72	134	61.0-142	
1,2,3-Trichloropropane	5.00	4.96	99.2	67.0-129	
1,2,3-Trimethylbenzene	5.00	4.70	94.0	74.0-124	
1,2,4-Trimethylbenzene	5.00	4.80	96.0	70.0-126	
1,3,5-Trimethylbenzene	5.00	4.80	96.0	73.0-127	
Vinyl chloride	5.00	6.76	135	63.0-134	J4
Xylenes, Total	15.0	13.5	90.0	72.0-127	
Allyl chloride	25.0	24.6	98.4	70.0-131	
(S) Toluene-d8			*85.4*	*75.0-131*	
(S) 4-Bromofluorobenzene			*88.1*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*113*	*70.0-130*	

Method Blank (MB)

(MB) R3595452-2 11/20/20 10:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Tetrachloroethene	U		0.0280	0.100
Trichloroethene	U		0.0160	0.0400
(S) Toluene-d8	*102*			*75.0-131*
(S) 4-Bromofluorobenzene	*102*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*93.2*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3595452-1 11/20/20 09:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	5.00	5.22	104	73.0-125	
Tetrachloroethene	5.00	4.91	98.2	70.0-136	
Trichloroethene	5.00	5.02	100	76.0-126	
(S) Toluene-d8			*98.9*	*75.0-131*	
(S) 4-Bromofluorobenzene			*102*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*94.9*	*70.0-130*	

Method Blank (MB)

(MB) R3596914-3 11/22/20 08:23

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

Method Blank (MB)

(MB) R3596914-3 11/22/20 08:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	0.154	J	0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	0.142	J	0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	0.0514	J	0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*101*			*75.0-131*
(S) 4-Bromofluorobenzene	*104*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*91.1*			*70.0-130*

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

(LCS) R3596914-1 11/22/20 07:22 • (LCSD) R3596914-2 11/22/20 07:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	12.9	11.9	51.6	47.6	10.0-160			8.06	31
Acrylonitrile	25.0	16.8	16.0	67.2	64.0	45.0-153			4.88	22
Benzene	5.00	5.46	5.23	109	105	70.0-123			4.30	20
Bromobenzene	5.00	4.62	4.67	92.4	93.4	73.0-121			1.08	20
Bromodichloromethane	5.00	5.23	5.20	105	104	73.0-121			0.575	20
Bromoform	5.00	4.46	4.41	89.2	88.2	64.0-132			1.13	20
Bromomethane	5.00	7.92	7.40	158	148	56.0-147	J4	J4	6.79	20
n-Butylbenzene	5.00	5.11	5.17	102	103	68.0-135			1.17	20
sec-Butylbenzene	5.00	4.95	5.01	99.0	100	74.0-130			1.20	20
tert-Butylbenzene	5.00	4.77	4.79	95.4	95.8	75.0-127			0.418	20
Carbon tetrachloride	5.00	5.60	5.12	112	102	66.0-128			8.96	20
Chlorobenzene	5.00	4.85	4.86	97.0	97.2	76.0-128			0.206	20
Chlorodibromomethane	5.00	4.61	4.59	92.2	91.8	74.0-127			0.435	20
Chloroethane	5.00	4.38	4.17	87.6	83.4	61.0-134			4.91	20
Chloroform	5.00	5.60	5.29	112	106	72.0-123			5.69	20
Chloromethane	5.00	3.89	3.79	77.8	75.8	51.0-138			2.60	20
2-Chlorotoluene	5.00	4.82	4.73	96.4	94.6	75.0-124			1.88	20
4-Chlorotoluene	5.00	4.67	4.62	93.4	92.4	75.0-124			1.08	20
1,2-Dibromo-3-Chloropropane	5.00	4.24	4.21	84.8	84.2	59.0-130			0.710	20
1,2-Dibromoethane	5.00	4.97	4.90	99.4	98.0	74.0-128			1.42	20
Dibromomethane	5.00	5.60	5.34	112	107	75.0-122			4.75	20
1,2-Dichlorobenzene	5.00	4.95	4.96	99.0	99.2	76.0-124			0.202	20
1,3-Dichlorobenzene	5.00	4.89	4.85	97.8	97.0	76.0-125			0.821	20
1,4-Dichlorobenzene	5.00	4.80	4.77	96.0	95.4	77.0-121			0.627	20
trans-1,4-Dichloro-2-butene	5.00	2.92	2.68	58.4	53.6	45.0-143			8.57	20
Dichlorodifluoromethane	5.00	5.85	4.68	117	93.6	43.0-156		J3	22.2	20
1,1-Dichloroethane	5.00	4.43	4.30	88.6	86.0	70.0-127			2.98	20
1,2-Dichloroethane	5.00	4.62	4.31	92.4	86.2	65.0-131			6.94	20
1,1-Dichloroethene	5.00	3.99	3.83	79.8	76.6	65.0-131			4.09	20
cis-1,2-Dichloroethene	5.00	5.57	5.27	111	105	73.0-125			5.54	20
trans-1,2-Dichloroethene	5.00	5.30	4.85	106	97.0	71.0-125			8.87	20
1,2-Dichloropropane	5.00	4.38	4.17	87.6	83.4	74.0-125			4.91	20
1,1-Dichloropropene	5.00	5.48	5.30	110	106	73.0-125			3.34	20
1,3-Dichloropropane	5.00	4.85	4.97	97.0	99.4	80.0-125			2.44	20
cis-1,3-Dichloropropene	5.00	5.49	5.11	110	102	76.0-127			7.17	20
trans-1,3-Dichloropropene	5.00	4.85	4.82	97.0	96.4	73.0-127			0.620	20
2,2-Dichloropropane	5.00	5.22	4.78	104	95.6	59.0-135			8.80	20
Di-isopropyl ether	5.00	3.53	3.38	70.6	67.6	60.0-136			4.34	20
Ethylbenzene	5.00	5.07	4.83	101	96.6	74.0-126			4.85	20
Ethyl ether	5.00	4.11	4.00	82.2	80.0	64.0-137			2.71	20

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

(LCS) R3596914-1 11/22/20 07:22 • (LCSD) R3596914-2 11/22/20 07:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	4.81	5.21	96.2	104	57.0-150			7.98	20
Iodomethane	25.0	28.9	26.6	116	106	74.0-134			8.29	20
Isopropylbenzene	5.00	4.97	4.91	99.4	98.2	72.0-127			1.21	20
p-Isopropyltoluene	5.00	4.96	4.93	99.2	98.6	72.0-133			0.607	20
2-Butanone (MEK)	25.0	17.0	16.2	68.0	64.8	30.0-160			4.82	24
Methylene Chloride	5.00	4.96	4.77	99.2	95.4	68.0-123			3.91	20
4-Methyl-2-pentanone (MIBK)	25.0	16.9	16.8	67.6	67.2	56.0-143			0.593	20
Methyl tert-butyl ether	5.00	5.70	5.79	114	116	66.0-132			1.57	20
Naphthalene	5.00	5.40	5.32	108	106	59.0-130			1.49	20
n-Propylbenzene	5.00	4.82	4.82	96.4	96.4	74.0-126			0.000	20
Styrene	5.00	4.77	4.77	95.4	95.4	72.0-127			0.000	20
1,1,1,2-Tetrachloroethane	5.00	5.07	5.03	101	101	74.0-129			0.792	20
1,1,2,2-Tetrachloroethane	5.00	4.31	4.31	86.2	86.2	68.0-128			0.000	20
Tetrachloroethene	5.00	4.74	4.76	94.8	95.2	70.0-136			0.421	20
Tetrahydrofuran	5.00	3.03	2.88	60.6	57.6	37.0-146			5.08	24
Toluene	5.00	4.89	4.77	97.8	95.4	75.0-121			2.48	20
1,2,3-Trichlorobenzene	5.00	4.48	5.06	89.6	101	59.0-139			12.2	20
1,2,4-Trichlorobenzene	5.00	4.82	4.98	96.4	99.6	62.0-137			3.27	20
1,1,1-Trichloroethane	5.00	5.19	5.03	104	101	69.0-126			3.13	20
1,1,2-Trichloroethane	5.00	5.22	4.98	104	99.6	78.0-123			4.71	20
Trichloroethene	5.00	5.82	5.57	116	111	76.0-126			4.39	20
Trichlorofluoromethane	5.00	4.30	3.98	86.0	79.6	61.0-142			7.73	20
1,2,3-Trichloropropane	5.00	5.08	5.20	102	104	67.0-129			2.33	20
1,2,3-Trimethylbenzene	5.00	4.99	4.83	99.8	96.6	74.0-124			3.26	20
1,2,4-Trimethylbenzene	5.00	5.16	4.76	103	95.2	70.0-126			8.06	20
1,3,5-Trimethylbenzene	5.00	5.02	4.88	100	97.6	73.0-127			2.83	20
Vinyl chloride	5.00	5.45	5.19	109	104	63.0-134			4.89	20
Xylenes, Total	15.0	14.9	14.6	99.3	97.3	72.0-127			2.03	20
Allyl chloride	25.0	25.4	24.3	102	97.2	70.0-131			4.43	20
(S) Toluene-d8				*96.8*	*98.9*	*75.0-131*				
(S) 4-Bromofluorobenzene				*102*	*102*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*95.4*	*94.1*	*70.0-130*				

Method Blank (MB)

(MB) R3597116-3 11/24/20 13:13

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
(S) Toluene-d8	*102*			*75.0-131*
(S) 4-Bromofluorobenzene	*107*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*126*			*70.0-130*

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

(LCS) R3597116-1 11/24/20 12:17 • (LCSD) R3597116-2 11/24/20 12:36

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 %
1,1,2-Trichlorotrifluoroethane	5.00	4.51	5.11	90.2	102	61.0-139			12.5	20
(S) Toluene-d8				*97.3*	*101*	*75.0-131*				
(S) 4-Bromofluorobenzene				*98.2*	*98.8*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*119*	*118*	*70.0-130*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
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	LAO00356
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

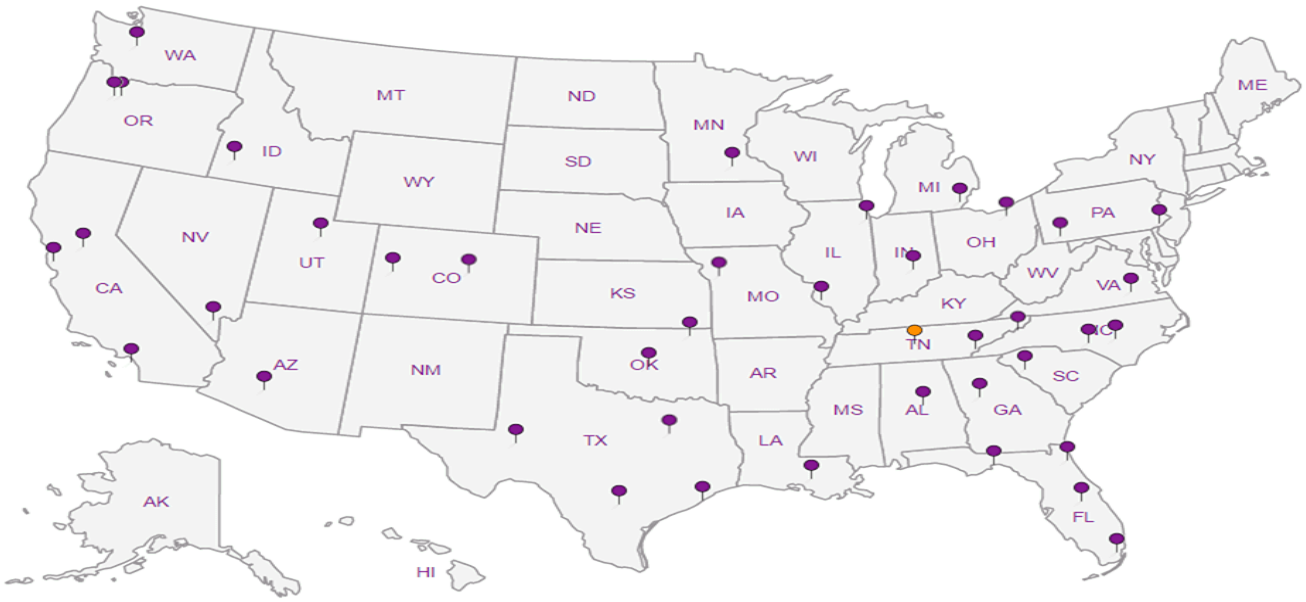
Third Party Federal Accreditations

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.



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 # 1413.001.02.501E

Lab Project # PESENVSWA-ALP

Collected by (print): HRC/BLH

Site/Facility ID #

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed: Standard TAT

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*~~H03,Cl,SO4~~ 125mlHDPE-NoPres	ALK 125mlHDPE-NoPres	RSK175LL 40mlAmb-HCl	TOC 250mlHDPE-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	V8260ULLC 40mlAmb HCl					Remarks	Sample # (lab only)
MW-312-111120	Grab	GW	24	11/11/20	1525	3						X						-01
MW-320-111220	|	GW	24	11/12/20	1005	3						X						02
MW116-111220	|	GW	40	|	1040	8	X		X	X	X	X						03
MW-332-111220	|	GW	28	|	1125	3						X						04
MW-318-111220	|	GW	60	|	1305	3						X						05
MW115-111220	|	GW	40	|	1340	8	X		X	X	X	X						06
MW-319-111220	|	GW	80	|	1400	3						X						07
MW123-111220	|	GW	75	|	1505	~~3~~ 8						X						08
EQ-111220	|	GW	—	|	1515	8	X		X	X	X	X						09
TB-111220	—	GW	—	|	1530	1						X						10

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 9050 0867 6298

Relinquished by : (Signature) [signature] Date: 11/12/20 Time: 1615

Received by: (Signature)

Trip Blank Received: Yes / No (HCL / MeoH) TBR

Relinquished by : (Signature) Date: Time:

Received by: (Signature)

Temp: 4.6 °C Bottles Received: 42

If preservation required by Login: Date/Time

Relinquished by : (Signature) Date: Time:

Received for lab by: (Signature) [signature] Date: 11/13/20 Time: 9:00

Hold:

Condition: NCF / OK

Chain of Custody Page 1 of 1

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 # L1265785

A032

Acctnum: PESENVSWA
Template: T170884
Prelogin: P788931
PM: 546 - Jared Starkey
PB:

Shipped Via: FedEx 2nd Day

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

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

November 25, 2020

PES Environmental, Inc.- WA

Sample Delivery Group:	L1286095
Samples Received:	11/14/2020
Project Number:	1413.001.02.501E
Description:	American Linen
Site:	1413.001.02.501E
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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FMW-140-111320 L1286095-01 GW

Collected by: Ben Hecht
Collected date/time: 11/13/20 09:00
Received date/time: 11/14/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1580676	1	11/22/20 14:36	11/22/20 14:36	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1581939	1	11/24/20 18:00	11/24/20 18:00	BMB	Mt. Juliet, TN

MW-324-111320 L1286095-02 GW

Collected by: Ben Hecht
Collected date/time: 11/13/20 10:20
Received date/time: 11/14/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1580676	50	11/22/20 18:00	11/22/20 18:00	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1581939	50	11/24/20 21:10	11/24/20 21:10	BMB	Mt. Juliet, TN

MW127-111320 L1286095-03 GW

Collected by: Ben Hecht
Collected date/time: 11/13/20 13:35
Received date/time: 11/14/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1580676	1	11/22/20 14:57	11/22/20 14:57	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1581939	1	11/24/20 18:19	11/24/20 18:19	BMB	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

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	0.607	C3 J	0.548	1.00	1	11/22/2020 14:36	WG1580676
Acrylonitrile	U	C3	0.0760	0.500	1	11/22/2020 14:36	WG1580676
Benzene	44.1		0.0160	0.0400	1	11/22/2020 14:36	WG1580676
Bromobenzene	U		0.0420	0.500	1	11/22/2020 14:36	WG1580676
Bromodichloromethane	U		0.0315	0.100	1	11/22/2020 14:36	WG1580676
Bromoform	U		0.239	1.00	1	11/22/2020 14:36	WG1580676
Bromomethane	U	J4	0.148	0.500	1	11/22/2020 14:36	WG1580676
n-Butylbenzene	U		0.153	0.500	1	11/22/2020 14:36	WG1580676
sec-Butylbenzene	U		0.101	0.500	1	11/22/2020 14:36	WG1580676
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2020 14:36	WG1580676
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2020 14:36	WG1580676
Chlorobenzene	U		0.0229	0.100	1	11/22/2020 14:36	WG1580676
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2020 14:36	WG1580676
Chloroethane	U		0.0432	0.200	1	11/22/2020 14:36	WG1580676
Chloroform	U		0.0166	0.100	1	11/22/2020 14:36	WG1580676
Chloromethane	U	C3	0.0556	0.500	1	11/22/2020 14:36	WG1580676
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2020 14:36	WG1580676
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2020 14:36	WG1580676
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2020 14:36	WG1580676
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2020 14:36	WG1580676
Dibromomethane	U		0.0400	0.200	1	11/22/2020 14:36	WG1580676
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2020 14:36	WG1580676
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2020 14:36	WG1580676
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2020 14:36	WG1580676
Dichlorodifluoromethane	U	J3	0.0327	0.100	1	11/22/2020 14:36	WG1580676
1,1-Dichloroethane	0.279		0.0230	0.100	1	11/22/2020 14:36	WG1580676
1,2-Dichloroethane	0.478		0.0190	0.100	1	11/22/2020 14:36	WG1580676
1,1-Dichloroethene	U	C3	0.0200	0.100	1	11/22/2020 14:36	WG1580676
cis-1,2-Dichloroethene	6.15		0.0276	0.100	1	11/22/2020 14:36	WG1580676
trans-1,2-Dichloroethene	0.0665	J	0.0572	0.200	1	11/22/2020 14:36	WG1580676
1,2-Dichloropropane	0.110	J	0.0508	0.200	1	11/22/2020 14:36	WG1580676
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2020 14:36	WG1580676
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2020 14:36	WG1580676
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2020 14:36	WG1580676
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2020 14:36	WG1580676
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2020 14:36	WG1580676
Di-isopropyl ether	0.189	C3	0.0140	0.0400	1	11/22/2020 14:36	WG1580676
Ethylbenzene	U		0.0212	0.100	1	11/22/2020 14:36	WG1580676
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/22/2020 14:36	WG1580676
Isopropylbenzene	U		0.0345	0.100	1	11/22/2020 14:36	WG1580676
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2020 14:36	WG1580676
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/22/2020 14:36	WG1580676
Methylene Chloride	U		0.265	1.00	1	11/22/2020 14:36	WG1580676
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/22/2020 14:36	WG1580676
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2020 14:36	WG1580676
Naphthalene	U		0.124	0.500	1	11/22/2020 14:36	WG1580676
n-Propylbenzene	U		0.0472	0.200	1	11/22/2020 14:36	WG1580676
Styrene	U		0.109	0.500	1	11/22/2020 14:36	WG1580676
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2020 14:36	WG1580676
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2020 14:36	WG1580676
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/24/2020 18:00	WG1581939
Tetrachloroethene	U		0.0280	0.100	1	11/22/2020 14:36	WG1580676
Toluene	0.147	J	0.0500	0.200	1	11/22/2020 14:36	WG1580676
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2020 14:36	WG1580676
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/22/2020 14:36	WG1580676
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2020 14:36	WG1580676

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2020 14:36	WG1580676
Trichloroethene	U		0.0160	0.0400	1	11/22/2020 14:36	WG1580676
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2020 14:36	WG1580676
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2020 14:36	WG1580676
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2020 14:36	WG1580676
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2020 14:36	WG1580676
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2020 14:36	WG1580676
Vinyl chloride	30.8		0.0273	0.100	1	11/22/2020 14:36	WG1580676
Xylenes, Total	U		0.191	0.260	1	11/22/2020 14:36	WG1580676
Ethyl Ether	0.394		0.0170	0.100	1	11/22/2020 14:36	WG1580676
Tetrahydrofuran	U	C3	0.0900	0.500	1	11/22/2020 14:36	WG1580676
Iodomethane	U		0.242	0.500	1	11/22/2020 14:36	WG1580676
Allyl chloride	U		0.580	1.00	1	11/22/2020 14:36	WG1580676
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2020 14:36	WG1580676
(S) Toluene-d8	*99.2*			*75.0-131*		*11/22/2020 14:36*	WG1580676
(S) Toluene-d8	*102*			*75.0-131*		*11/24/2020 18:00*	WG1581939
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/22/2020 14:36*	WG1580676
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*11/24/2020 18:00*	WG1581939
(S) 1,2-Dichloroethane-d4	*92.8*			*70.0-130*		*11/22/2020 14:36*	WG1580676
(S) 1,2-Dichloroethane-d4	*129*			*70.0-130*		*11/24/2020 18:00*	WG1581939

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	C3	27.4	50.0	50	11/22/2020 18:00	WG1580676
Acrylonitrile	U	C3	3.80	25.0	50	11/22/2020 18:00	WG1580676
Benzene	2.51		0.800	2.00	50	11/22/2020 18:00	WG1580676
Bromobenzene	U		2.10	25.0	50	11/22/2020 18:00	WG1580676
Bromodichloromethane	U		1.58	5.00	50	11/22/2020 18:00	WG1580676
Bromoform	U		12.0	50.0	50	11/22/2020 18:00	WG1580676
Bromomethane	U	J4	7.40	25.0	50	11/22/2020 18:00	WG1580676
n-Butylbenzene	U		7.65	25.0	50	11/22/2020 18:00	WG1580676
sec-Butylbenzene	U		5.05	25.0	50	11/22/2020 18:00	WG1580676
tert-Butylbenzene	U		3.10	10.0	50	11/22/2020 18:00	WG1580676
Carbon tetrachloride	U		2.16	10.0	50	11/22/2020 18:00	WG1580676
Chlorobenzene	U		1.15	5.00	50	11/22/2020 18:00	WG1580676
Chlorodibromomethane	U		0.900	5.00	50	11/22/2020 18:00	WG1580676
Chloroethane	U		2.16	10.0	50	11/22/2020 18:00	WG1580676
Chloroform	U		0.830	5.00	50	11/22/2020 18:00	WG1580676
Chloromethane	U	C3	2.78	25.0	50	11/22/2020 18:00	WG1580676
2-Chlorotoluene	U		1.84	5.00	50	11/22/2020 18:00	WG1580676
4-Chlorotoluene	U		2.26	10.0	50	11/22/2020 18:00	WG1580676
1,2-Dibromo-3-Chloropropane	U		10.2	50.0	50	11/22/2020 18:00	WG1580676
1,2-Dibromoethane	U		1.05	5.00	50	11/22/2020 18:00	WG1580676
Dibromomethane	U		2.00	10.0	50	11/22/2020 18:00	WG1580676
1,2-Dichlorobenzene	U		2.90	10.0	50	11/22/2020 18:00	WG1580676
1,3-Dichlorobenzene	U		3.40	10.0	50	11/22/2020 18:00	WG1580676
1,4-Dichlorobenzene	U		3.94	10.0	50	11/22/2020 18:00	WG1580676
Dichlorodifluoromethane	U	J3	1.64	5.00	50	11/22/2020 18:00	WG1580676
1,1-Dichloroethane	U		1.15	5.00	50	11/22/2020 18:00	WG1580676
1,2-Dichloroethane	U		0.950	5.00	50	11/22/2020 18:00	WG1580676
1,1-Dichloroethene	7.97	C3	1.00	5.00	50	11/22/2020 18:00	WG1580676
cis-1,2-Dichloroethene	7210		1.38	5.00	50	11/22/2020 18:00	WG1580676
trans-1,2-Dichloroethene	13.7		2.86	10.0	50	11/22/2020 18:00	WG1580676
1,2-Dichloropropane	U		2.54	10.0	50	11/22/2020 18:00	WG1580676
1,1-Dichloropropene	U		1.40	5.00	50	11/22/2020 18:00	WG1580676
1,3-Dichloropropane	U		3.50	10.0	50	11/22/2020 18:00	WG1580676
cis-1,3-Dichloropropene	U		1.36	5.00	50	11/22/2020 18:00	WG1580676
trans-1,3-Dichloropropene	U		3.06	10.0	50	11/22/2020 18:00	WG1580676
2,2-Dichloropropane	U		1.59	5.00	50	11/22/2020 18:00	WG1580676
Di-isopropyl ether	U	C3	0.700	2.00	50	11/22/2020 18:00	WG1580676
Ethylbenzene	U		1.06	5.00	50	11/22/2020 18:00	WG1580676
Hexachloro-1,3-butadiene	U		25.4	50.0	50	11/22/2020 18:00	WG1580676
Isopropylbenzene	U		1.73	5.00	50	11/22/2020 18:00	WG1580676
p-Isopropyltoluene	U		4.66	10.0	50	11/22/2020 18:00	WG1580676
2-Butanone (MEK)	U	C3	25.0	50.0	50	11/22/2020 18:00	WG1580676
Methylene Chloride	U		13.3	50.0	50	11/22/2020 18:00	WG1580676
4-Methyl-2-pentanone (MIBK)	U	C3	20.0	50.0	50	11/22/2020 18:00	WG1580676
Methyl tert-butyl ether	U		0.590	2.00	50	11/22/2020 18:00	WG1580676
Naphthalene	U		6.20	25.0	50	11/22/2020 18:00	WG1580676
n-Propylbenzene	U		2.36	10.0	50	11/22/2020 18:00	WG1580676
Styrene	U		5.45	25.0	50	11/22/2020 18:00	WG1580676
1,1,1,2-Tetrachloroethane	U		1.00	5.00	50	11/22/2020 18:00	WG1580676
1,1,2,2-Tetrachloroethane	U		0.780	5.00	50	11/22/2020 18:00	WG1580676
1,1,2-Trichlorotrifluoroethane	U		1.35	5.00	50	11/24/2020 21:10	WG1581939
Tetrachloroethene	U		1.40	5.00	50	11/22/2020 18:00	WG1580676
Toluene	U		2.50	10.0	50	11/22/2020 18:00	WG1580676
1,2,3-Trichlorobenzene	U		1.25	25.0	50	11/22/2020 18:00	WG1580676
1,2,4-Trichlorobenzene	U		9.65	25.0	50	11/22/2020 18:00	WG1580676
1,1,1-Trichloroethane	U		0.550	5.00	50	11/22/2020 18:00	WG1580676

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		1.77	5.00	50	11/22/2020 18:00	WG1580676
Trichloroethene	U		0.800	2.00	50	11/22/2020 18:00	WG1580676
Trichlorofluoromethane	U		1.00	5.00	50	11/22/2020 18:00	WG1580676
1,2,3-Trichloropropane	U		10.2	25.0	50	11/22/2020 18:00	WG1580676
1,2,4-Trimethylbenzene	U		2.32	10.0	50	11/22/2020 18:00	WG1580676
1,2,3-Trimethylbenzene	U		2.30	10.0	50	11/22/2020 18:00	WG1580676
1,3,5-Trimethylbenzene	U		2.16	10.0	50	11/22/2020 18:00	WG1580676
Vinyl chloride	184		1.36	5.00	50	11/22/2020 18:00	WG1580676
Xylenes, Total	U		9.55	13.0	50	11/22/2020 18:00	WG1580676
Ethyl Ether	U		0.850	5.00	50	11/22/2020 18:00	WG1580676
Tetrahydrofuran	U	C3	4.50	25.0	50	11/22/2020 18:00	WG1580676
Iodomethane	U		12.1	25.0	50	11/22/2020 18:00	WG1580676
Allyl chloride	U		29.0	50.0	50	11/22/2020 18:00	WG1580676
Trans-1,4-Dichloro-2-butene	U	C3	2.80	10.0	50	11/22/2020 18:00	WG1580676
(S) Toluene-d8	*101*			*75.0-131*		*11/22/2020 18:00*	WG1580676
(S) Toluene-d8	*103*			*75.0-131*		*11/24/2020 21:10*	WG1581939
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/22/2020 18:00*	WG1580676
(S) 4-Bromofluorobenzene	*99.7*			*67.0-138*		*11/24/2020 21:10*	WG1581939
(S) 1,2-Dichloroethane-d4	*94.4*			*70.0-130*		*11/22/2020 18:00*	WG1580676
(S) 1,2-Dichloroethane-d4	*128*			*70.0-130*		*11/24/2020 21:10*	WG1581939

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	C3	0.548	1.00	1	11/22/2020 14:57	WG1580676
Acrylonitrile	U	C3	0.0760	0.500	1	11/22/2020 14:57	WG1580676
Benzene	0.0453		0.0160	0.0400	1	11/22/2020 14:57	WG1580676
Bromobenzene	U		0.0420	0.500	1	11/22/2020 14:57	WG1580676
Bromodichloromethane	U		0.0315	0.100	1	11/22/2020 14:57	WG1580676
Bromoform	U		0.239	1.00	1	11/22/2020 14:57	WG1580676
Bromomethane	U	J4	0.148	0.500	1	11/22/2020 14:57	WG1580676
n-Butylbenzene	U		0.153	0.500	1	11/22/2020 14:57	WG1580676
sec-Butylbenzene	U		0.101	0.500	1	11/22/2020 14:57	WG1580676
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2020 14:57	WG1580676
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2020 14:57	WG1580676
Chlorobenzene	U		0.0229	0.100	1	11/22/2020 14:57	WG1580676
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2020 14:57	WG1580676
Chloroethane	U		0.0432	0.200	1	11/22/2020 14:57	WG1580676
Chloroform	U		0.0166	0.100	1	11/22/2020 14:57	WG1580676
Chloromethane	U	C3	0.0556	0.500	1	11/22/2020 14:57	WG1580676
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2020 14:57	WG1580676
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2020 14:57	WG1580676
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2020 14:57	WG1580676
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2020 14:57	WG1580676
Dibromomethane	U		0.0400	0.200	1	11/22/2020 14:57	WG1580676
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2020 14:57	WG1580676
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2020 14:57	WG1580676
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2020 14:57	WG1580676
Dichlorodifluoromethane	U	J3	0.0327	0.100	1	11/22/2020 14:57	WG1580676
1,1-Dichloroethane	0.366		0.0230	0.100	1	11/22/2020 14:57	WG1580676
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2020 14:57	WG1580676
1,1-Dichloroethene	U	C3	0.0200	0.100	1	11/22/2020 14:57	WG1580676
cis-1,2-Dichloroethene	0.898		0.0276	0.100	1	11/22/2020 14:57	WG1580676
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2020 14:57	WG1580676
1,2-Dichloropropane	0.0576	J	0.0508	0.200	1	11/22/2020 14:57	WG1580676
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2020 14:57	WG1580676
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2020 14:57	WG1580676
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2020 14:57	WG1580676
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2020 14:57	WG1580676
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2020 14:57	WG1580676
Di-isopropyl ether	U	C3	0.0140	0.0400	1	11/22/2020 14:57	WG1580676
Ethylbenzene	U		0.0212	0.100	1	11/22/2020 14:57	WG1580676
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/22/2020 14:57	WG1580676
Isopropylbenzene	U		0.0345	0.100	1	11/22/2020 14:57	WG1580676
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2020 14:57	WG1580676
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/22/2020 14:57	WG1580676
Methylene Chloride	U		0.265	1.00	1	11/22/2020 14:57	WG1580676
4-Methyl-2-pentanone (MIBK)	U	C3	0.400	1.00	1	11/22/2020 14:57	WG1580676
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2020 14:57	WG1580676
Naphthalene	U		0.124	0.500	1	11/22/2020 14:57	WG1580676
n-Propylbenzene	U		0.0472	0.200	1	11/22/2020 14:57	WG1580676
Styrene	U		0.109	0.500	1	11/22/2020 14:57	WG1580676
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2020 14:57	WG1580676
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2020 14:57	WG1580676
1,1,2-Trichlorotrifluoroethane	0.458		0.0270	0.100	1	11/24/2020 18:19	WG1581939
Tetrachloroethene	U		0.0280	0.100	1	11/22/2020 14:57	WG1580676
Toluene	0.0726	J	0.0500	0.200	1	11/22/2020 14:57	WG1580676
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2020 14:57	WG1580676
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/22/2020 14:57	WG1580676
1,1,1-Trichloroethane	0.0917	J	0.0110	0.100	1	11/22/2020 14:57	WG1580676

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2020 14:57	WG1580676
Trichloroethene	U		0.0160	0.0400	1	11/22/2020 14:57	WG1580676
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2020 14:57	WG1580676
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2020 14:57	WG1580676
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2020 14:57	WG1580676
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2020 14:57	WG1580676
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2020 14:57	WG1580676
Vinyl chloride	U		0.0273	0.100	1	11/22/2020 14:57	WG1580676
Xylenes, Total	U		0.191	0.260	1	11/22/2020 14:57	WG1580676
Ethyl Ether	U		0.0170	0.100	1	11/22/2020 14:57	WG1580676
Tetrahydrofuran	U	C3	0.0900	0.500	1	11/22/2020 14:57	WG1580676
Iodomethane	U		0.242	0.500	1	11/22/2020 14:57	WG1580676
Allyl chloride	U		0.580	1.00	1	11/22/2020 14:57	WG1580676
Trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2020 14:57	WG1580676
(S) Toluene-d8	*100*			*75.0-131*		*11/22/2020 14:57*	WG1580676
(S) Toluene-d8	*95.4*			*75.0-131*		*11/24/2020 18:19*	WG1581939
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*11/22/2020 14:57*	WG1580676
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*11/24/2020 18:19*	WG1581939
(S) 1,2-Dichloroethane-d4	*95.3*			*70.0-130*		*11/22/2020 14:57*	WG1580676
(S) 1,2-Dichloroethane-d4	*134*	J1		*70.0-130*		*11/24/2020 18:19*	WG1581939

Method Blank (MB)

(MB) R3596914-3 11/22/20 08:23

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

Method Blank (MB)

(MB) R3596914-3 11/22/20 08:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	0.154	J	0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	0.142	J	0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	0.0514	J	0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*101*			*75.0-131*
(S) 4-Bromofluorobenzene	*104*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*91.1*			*70.0-130*

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

(LCS) R3596914-1 11/22/20 07:22 • (LCSD) R3596914-2 11/22/20 07:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	12.9	11.9	51.6	47.6	10.0-160			8.06	31
Acrylonitrile	25.0	16.8	16.0	67.2	64.0	45.0-153			4.88	22
Benzene	5.00	5.46	5.23	109	105	70.0-123			4.30	20
Bromobenzene	5.00	4.62	4.67	92.4	93.4	73.0-121			1.08	20
Bromodichloromethane	5.00	5.23	5.20	105	104	73.0-121			0.575	20
Bromoform	5.00	4.46	4.41	89.2	88.2	64.0-132			1.13	20
Bromomethane	5.00	7.92	7.40	158	148	56.0-147	J4	J4	6.79	20
n-Butylbenzene	5.00	5.11	5.17	102	103	68.0-135			1.17	20
sec-Butylbenzene	5.00	4.95	5.01	99.0	100	74.0-130			1.20	20
tert-Butylbenzene	5.00	4.77	4.79	95.4	95.8	75.0-127			0.418	20
Carbon tetrachloride	5.00	5.60	5.12	112	102	66.0-128			8.96	20
Chlorobenzene	5.00	4.85	4.86	97.0	97.2	76.0-128			0.206	20
Chlorodibromomethane	5.00	4.61	4.59	92.2	91.8	74.0-127			0.435	20
Chloroethane	5.00	4.38	4.17	87.6	83.4	61.0-134			4.91	20
Chloroform	5.00	5.60	5.29	112	106	72.0-123			5.69	20
Chloromethane	5.00	3.89	3.79	77.8	75.8	51.0-138			2.60	20
2-Chlorotoluene	5.00	4.82	4.73	96.4	94.6	75.0-124			1.88	20
4-Chlorotoluene	5.00	4.67	4.62	93.4	92.4	75.0-124			1.08	20
1,2-Dibromo-3-Chloropropane	5.00	4.24	4.21	84.8	84.2	59.0-130			0.710	20
1,2-Dibromoethane	5.00	4.97	4.90	99.4	98.0	74.0-128			1.42	20
Dibromomethane	5.00	5.60	5.34	112	107	75.0-122			4.75	20
1,2-Dichlorobenzene	5.00	4.95	4.96	99.0	99.2	76.0-124			0.202	20
1,3-Dichlorobenzene	5.00	4.89	4.85	97.8	97.0	76.0-125			0.821	20
1,4-Dichlorobenzene	5.00	4.80	4.77	96.0	95.4	77.0-121			0.627	20
trans-1,4-Dichloro-2-butene	5.00	2.92	2.68	58.4	53.6	45.0-143			8.57	20
Dichlorodifluoromethane	5.00	5.85	4.68	117	93.6	43.0-156		J3	22.2	20
1,1-Dichloroethane	5.00	4.43	4.30	88.6	86.0	70.0-127			2.98	20
1,2-Dichloroethane	5.00	4.62	4.31	92.4	86.2	65.0-131			6.94	20
1,1-Dichloroethene	5.00	3.99	3.83	79.8	76.6	65.0-131			4.09	20
cis-1,2-Dichloroethene	5.00	5.57	5.27	111	105	73.0-125			5.54	20
trans-1,2-Dichloroethene	5.00	5.30	4.85	106	97.0	71.0-125			8.87	20
1,2-Dichloropropane	5.00	4.38	4.17	87.6	83.4	74.0-125			4.91	20
1,1-Dichloropropene	5.00	5.48	5.30	110	106	73.0-125			3.34	20
1,3-Dichloropropane	5.00	4.85	4.97	97.0	99.4	80.0-125			2.44	20
cis-1,3-Dichloropropene	5.00	5.49	5.11	110	102	76.0-127			7.17	20
trans-1,3-Dichloropropene	5.00	4.85	4.82	97.0	96.4	73.0-127			0.620	20
2,2-Dichloropropane	5.00	5.22	4.78	104	95.6	59.0-135			8.80	20
Di-isopropyl ether	5.00	3.53	3.38	70.6	67.6	60.0-136			4.34	20
Ethylbenzene	5.00	5.07	4.83	101	96.6	74.0-126			4.85	20
Ethyl ether	5.00	4.11	4.00	82.2	80.0	64.0-137			2.71	20

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

(LCS) R3596914-1 11/22/20 07:22 • (LCSD) R3596914-2 11/22/20 07:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	4.81	5.21	96.2	104	57.0-150			7.98	20
Iodomethane	25.0	28.9	26.6	116	106	74.0-134			8.29	20
Isopropylbenzene	5.00	4.97	4.91	99.4	98.2	72.0-127			1.21	20
p-Isopropyltoluene	5.00	4.96	4.93	99.2	98.6	72.0-133			0.607	20
2-Butanone (MEK)	25.0	17.0	16.2	68.0	64.8	30.0-160			4.82	24
Methylene Chloride	5.00	4.96	4.77	99.2	95.4	68.0-123			3.91	20
4-Methyl-2-pentanone (MIBK)	25.0	16.9	16.8	67.6	67.2	56.0-143			0.593	20
Methyl tert-butyl ether	5.00	5.70	5.79	114	116	66.0-132			1.57	20
Naphthalene	5.00	5.40	5.32	108	106	59.0-130			1.49	20
n-Propylbenzene	5.00	4.82	4.82	96.4	96.4	74.0-126			0.000	20
Styrene	5.00	4.77	4.77	95.4	95.4	72.0-127			0.000	20
1,1,1,2-Tetrachloroethane	5.00	5.07	5.03	101	101	74.0-129			0.792	20
1,1,2,2-Tetrachloroethane	5.00	4.31	4.31	86.2	86.2	68.0-128			0.000	20
Tetrachloroethene	5.00	4.74	4.76	94.8	95.2	70.0-136			0.421	20
Tetrahydrofuran	5.00	3.03	2.88	60.6	57.6	37.0-146			5.08	24
Toluene	5.00	4.89	4.77	97.8	95.4	75.0-121			2.48	20
1,2,3-Trichlorobenzene	5.00	4.48	5.06	89.6	101	59.0-139			12.2	20
1,2,4-Trichlorobenzene	5.00	4.82	4.98	96.4	99.6	62.0-137			3.27	20
1,1,1-Trichloroethane	5.00	5.19	5.03	104	101	69.0-126			3.13	20
1,1,2-Trichloroethane	5.00	5.22	4.98	104	99.6	78.0-123			4.71	20
Trichloroethene	5.00	5.82	5.57	116	111	76.0-126			4.39	20
Trichlorofluoromethane	5.00	4.30	3.98	86.0	79.6	61.0-142			7.73	20
1,2,3-Trichloropropane	5.00	5.08	5.20	102	104	67.0-129			2.33	20
1,2,3-Trimethylbenzene	5.00	4.99	4.83	99.8	96.6	74.0-124			3.26	20
1,2,4-Trimethylbenzene	5.00	5.16	4.76	103	95.2	70.0-126			8.06	20
1,3,5-Trimethylbenzene	5.00	5.02	4.88	100	97.6	73.0-127			2.83	20
Vinyl chloride	5.00	5.45	5.19	109	104	63.0-134			4.89	20
Xylenes, Total	15.0	14.9	14.6	99.3	97.3	72.0-127			2.03	20
Allyl chloride	25.0	25.4	24.3	102	97.2	70.0-131			4.43	20
(S) Toluene-d8				*96.8*	*98.9*	*75.0-131*				
(S) 4-Bromofluorobenzene				*102*	*102*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*95.4*	*94.1*	*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) R3597116-3 11/24/20 13:13

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
(S) Toluene-d8	*102*			*75.0-131*
(S) 4-Bromofluorobenzene	*107*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*126*			*70.0-130*

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

(LCS) R3597116-1 11/24/20 12:17 • (LCSD) R3597116-2 11/24/20 12:36

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 %
1,1,2-Trichlorotrifluoroethane	5.00	4.51	5.11	90.2	102	61.0-139			12.5	20
(S) Toluene-d8				*97.3*	*101*	*75.0-131*				
(S) 4-Bromofluorobenzene				*98.2*	*98.8*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*119*	*118*	*70.0-130*				

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.
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
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
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	LAO00356
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

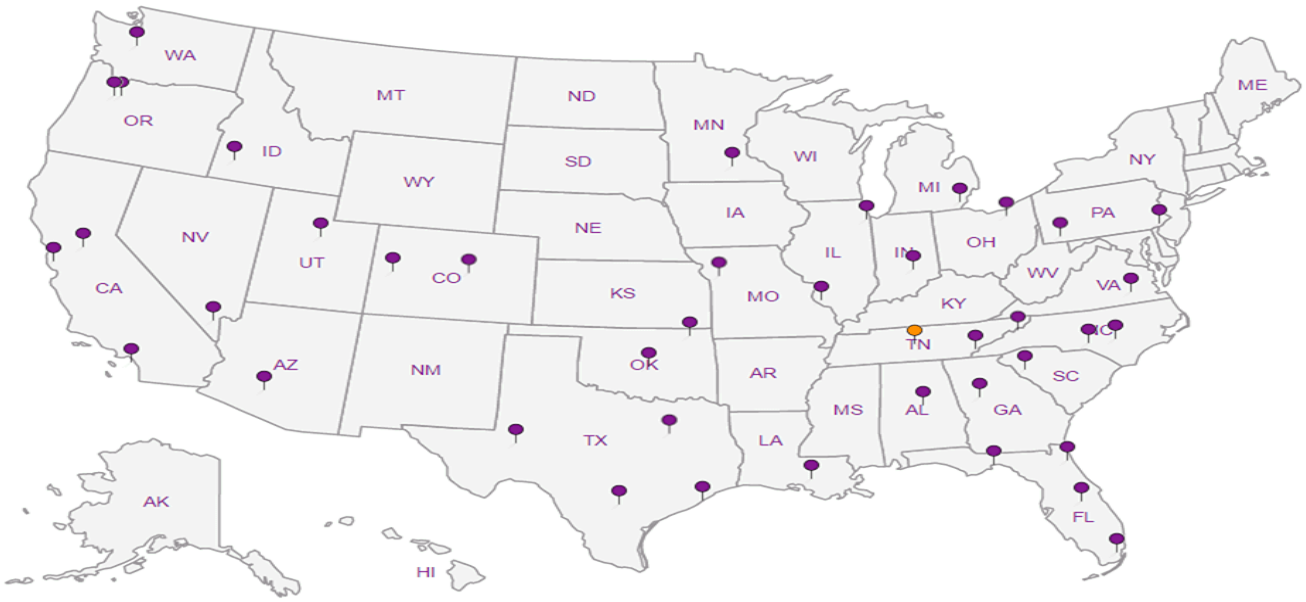
Third Party Federal Accreditations

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.



CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: F178

ALL SHADED AREAS are for LAB USE ONLY

Company: **PES Environmental, Inc.**	Billing Information: **Attn: Accounts Payable 1215 4th Ave STE 1350, Seattle, WA 98161**
Address: **1215 4th Ave STE 1350, Seattle, WA 98161**	
Report To: **Bill Haldeman/Brian O'Neal**	Email To: **bhaldeman@pesenv.com; boneal@pesenv.com**
Copy To: **Kim Vik, Shannon McKernan, Karsten Springstead**	Site Collection Info/Address: **700 Dexter Ave N**
Customer Project Name/Number: American Linen **1413.001.02.501E**	State: **WA** / County/City: **King/Seattle** Time Zone Collected: [x]PT [ ]MT [ ]CT [ ]ET
Phone: 206-529-3980 Email: **agilvezan@pesenv.com**	Site/Facility ID #: **1413.001.02.501E**
Collected By (print): Ben Hecht	Purchase Order # : **1413.001.02.501E** Quote #: **PESENVSWA-ALP**
Collected By (signature):	Turnaround Date Required: Standard
Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: Standard [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [x] Yes [ ] No

DW PWS ID #:

DW Location Code:

Immediately Packed on Ice: [x] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	*NO3, SO4, Cl* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM (RSK175LL) 40mlAmb-HCl	TOC 250mlAmb-HCl or 250mlHDPE-HCl	Total Fe, Mn 6020 250mlHDPE-HNO3	VOCs (8260ULLC)	GRO (NWTPH-Gx)	Lab Profile/Line:
FMW-140-111320	GW	Grab	11-13-20	9:00				3						X		4286095-01
MW-324-111320	GW	Grab	↓	10:20				3						X		-02
MW-127-111320	GW	Grab	↓	13:35				3						X		-03
	GW	Grab														
	GW	Grab														
	GW	Grab														
	GW	Grab														
	GW	Grab														
	GW	Grab														
	GW	Grab														

BSH

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:	
Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:
4286095

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 9050 0867 8815

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: IR2
Cooler 1 Temp Upon Receipt: 1.7 oC
Cooler 1 Therm Corr. Factor: 0.0 oC
Cooler 1 Corrected Temp: 1.7 oC
Comments:

Relinquished by/Company: (Signature) PES Environmental	Date/Time: 11/13/20 @ 1520	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 11/14/2020	PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

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