

August 20, 2020

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Cascade Corporation- Fairview, OR

Sample Delivery Group: L1249774
Samples Received: 08/12/2020
Project Number: PNG0564S19
Description: Cascade TSA

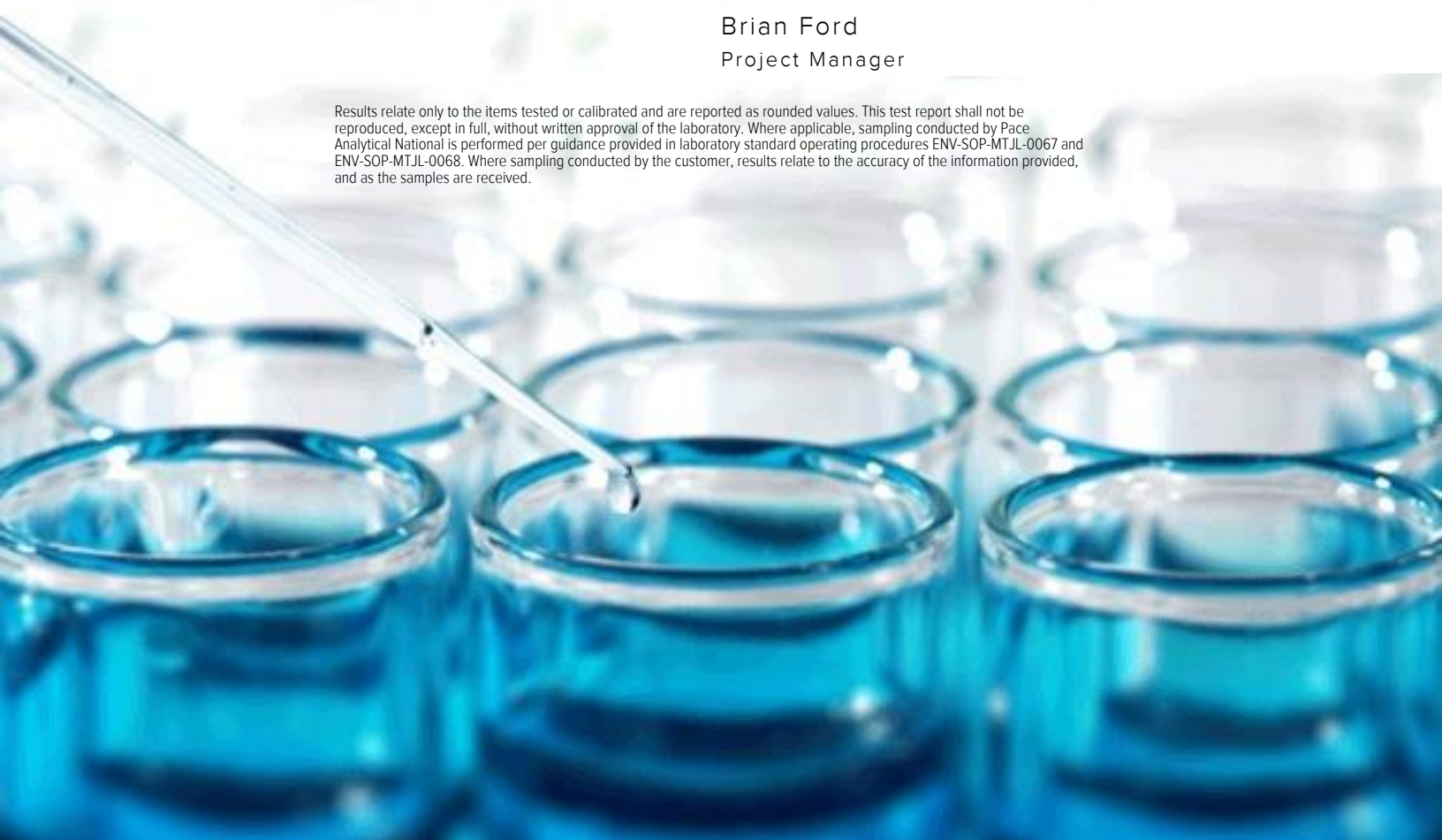
Report To: Cindy Bartlett
2201 NE 201st Avenue
Fairview, OR 97024-9718

Entire Report Reviewed By:

Brian Ford

Brian Ford
Project Manager

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





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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



VMWI-081020-T L1249774-01 GW

				Collected by PY/MT	Collected date/time	Received date/time
					08/10/20 08:40	08/12/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1525849	1	08/14/20 15:19	08/14/20 15:19	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528159	1	08/19/20 01:00	08/19/20 01:00	DWR	Mt. Juliet, TN

¹ Cp

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VMWI-081020-M L1249774-02 GW

				Collected by PY/MT	Collected date/time	Received date/time
					08/10/20 08:50	08/12/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1525849	1	08/14/20 15:38	08/14/20 15:38	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528159	1	08/19/20 01:19	08/19/20 01:19	DWR	Mt. Juliet, TN

⁴ Cn

⁵ Sr

⁶ Qc

VMWI-081020-B L1249774-03 GW

				Collected by PY/MT	Collected date/time	Received date/time
					08/10/20 09:00	08/12/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1525849	1	08/14/20 15:58	08/14/20 15:58	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528159	1	08/19/20 01:38	08/19/20 01:38	DWR	Mt. Juliet, TN

⁷ Gl

⁸ Al

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VMWJ2-081020-M L1249774-04 GW

				Collected by PY/MT	Collected date/time	Received date/time
					08/10/20 09:25	08/12/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1525849	1	08/14/20 16:17	08/14/20 16:17	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528159	1	08/19/20 01:57	08/19/20 01:57	DWR	Mt. Juliet, TN

VMWJ2-081020-B L1249774-05 GW

				Collected by PY/MT	Collected date/time	Received date/time
					08/10/20 09:35	08/12/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1525849	1	08/14/20 16:37	08/14/20 16:37	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528159	1	08/19/20 02:16	08/19/20 02:16	DWR	Mt. Juliet, TN

VMWK-081020-M L1249774-06 GW

				Collected by PY/MT	Collected date/time	Received date/time
					08/10/20 10:00	08/12/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1525849	1	08/14/20 16:56	08/14/20 16:56	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528159	1	08/19/20 02:36	08/19/20 02:36	DWR	Mt. Juliet, TN

VMWK-081020-B L1249774-07 GW

				Collected by PY/MT	Collected date/time	Received date/time
					08/10/20 10:10	08/12/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1525849	1	08/14/20 17:15	08/14/20 17:15	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528159	1	08/19/20 02:55	08/19/20 02:55	DWR	Mt. Juliet, TN

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



VMWL-081020-T L1249774-08 GW

				Collected by PY/MT	Collected date/time	Received date/time
					08/10/20 10:25	08/12/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1525849	1	08/14/20 17:35	08/14/20 17:35	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528159	1	08/19/20 03:14	08/19/20 03:14	DWR	Mt. Juliet, TN

¹ Cp

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VMWL-081020-M L1249774-09 GW

				Collected by PY/MT	Collected date/time	Received date/time
					08/10/20 10:35	08/12/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1525849	1	08/14/20 17:54	08/14/20 17:54	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528159	1	08/19/20 03:33	08/19/20 03:33	DWR	Mt. Juliet, TN

⁴ Cn

⁵ Sr

⁶ Qc

VMWL-081020-B L1249774-10 GW

				Collected by PY/MT	Collected date/time	Received date/time
					08/10/20 10:45	08/12/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1525849	1	08/14/20 18:13	08/14/20 18:13	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528159	1	08/19/20 03:52	08/19/20 03:52	DWR	Mt. Juliet, TN

⁷ Gl

⁸ Al

⁹ Sc

VMWM-081020-T L1249774-11 GW

				Collected by PY/MT	Collected date/time	Received date/time
					08/10/20 11:00	08/12/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1525849	1	08/14/20 18:32	08/14/20 18:32	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528159	1	08/19/20 04:11	08/19/20 04:11	DWR	Mt. Juliet, TN

VMWM-081020-M L1249774-12 GW

				Collected by PY/MT	Collected date/time	Received date/time
					08/10/20 11:12	08/12/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1525849	1	08/14/20 18:51	08/14/20 18:51	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528159	1	08/19/20 04:29	08/19/20 04:29	DWR	Mt. Juliet, TN

VMWM-081020-B L1249774-13 GW

				Collected by PY/MT	Collected date/time	Received date/time
					08/10/20 11:25	08/12/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1525849	1	08/14/20 19:11	08/14/20 19:11	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528159	1	08/19/20 04:48	08/19/20 04:48	DWR	Mt. Juliet, TN

VMWN-081020-T L1249774-14 GW

				Collected by PY/MT	Collected date/time	Received date/time
					08/10/20 11:40	08/12/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1525849	1	08/14/20 19:30	08/14/20 19:30	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528159	1	08/19/20 05:07	08/19/20 05:07	DWR	Mt. Juliet, TN

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VMWN-081020-M L1249774-15 GW

				Collected by PY/MT	Collected date/time	Received date/time
					08/10/20 11:50	08/12/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1525849	1	08/14/20 19:49	08/14/20 19:49	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528159	1	08/19/20 05:26	08/19/20 05:26	DWR	Mt. Juliet, TN

VMWN-081020-B L1249774-16 GW

				Collected by PY/MT	Collected date/time	Received date/time
					08/10/20 12:00	08/12/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1525849	1	08/14/20 20:08	08/14/20 20:08	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528159	1	08/19/20 05:45	08/19/20 05:45	DWR	Mt. Juliet, TN

TRIP BLANK LOT#444 L1249774-17 GW

				Collected by PY/MT	Collected date/time	Received date/time
					08/10/20 00:00	08/12/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1525849	1	08/14/20 14:01	08/14/20 14:01	BMB	Mt. Juliet, TN

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



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

Brian Ford
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	39.8	J3	25.0	1	08/19/2020 01:00	WG1528159
Acrolein	ND	J0 J3	50.0	1	08/14/2020 15:19	WG1525849
Acrylonitrile	ND		5.00	1	08/14/2020 15:19	WG1525849
Benzene	ND		0.500	1	08/14/2020 15:19	WG1525849
Bromobenzene	ND	J4	0.500	1	08/14/2020 15:19	WG1525849
Bromodichloromethane	ND		0.500	1	08/14/2020 15:19	WG1525849
Bromoform	ND		0.500	1	08/14/2020 15:19	WG1525849
Bromomethane	ND		2.50	1	08/14/2020 15:19	WG1525849
n-Butylbenzene	ND		0.500	1	08/14/2020 15:19	WG1525849
sec-Butylbenzene	ND		0.500	1	08/14/2020 15:19	WG1525849
tert-Butylbenzene	ND		0.500	1	08/14/2020 15:19	WG1525849
Carbon disulfide	ND		0.500	1	08/14/2020 15:19	WG1525849
Carbon tetrachloride	ND		0.500	1	08/14/2020 15:19	WG1525849
Chlorobenzene	ND	J4	0.500	1	08/14/2020 15:19	WG1525849
Chlorodibromomethane	ND	J4	0.500	1	08/14/2020 15:19	WG1525849
Chloroethane	ND		2.50	1	08/14/2020 15:19	WG1525849
Chloroform	ND		0.500	1	08/14/2020 15:19	WG1525849
Chloromethane	ND		1.25	1	08/14/2020 15:19	WG1525849
2-Chlorotoluene	ND		0.500	1	08/14/2020 15:19	WG1525849
4-Chlorotoluene	ND	J4	0.500	1	08/14/2020 15:19	WG1525849
1,2-Dibromo-3-Chloropropane	ND		2.50	1	08/14/2020 15:19	WG1525849
1,2-Dibromoethane	ND	J4	0.500	1	08/14/2020 15:19	WG1525849
Dibromomethane	ND	J4	0.500	1	08/14/2020 15:19	WG1525849
1,2-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 15:19	WG1525849
1,3-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 15:19	WG1525849
1,4-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 15:19	WG1525849
Dichlorodifluoromethane	ND		2.50	1	08/14/2020 15:19	WG1525849
1,1-Dichloroethane	ND		0.500	1	08/14/2020 15:19	WG1525849
1,2-Dichloroethane	ND		0.500	1	08/14/2020 15:19	WG1525849
1,1-Dichloroethene	ND		0.500	1	08/14/2020 15:19	WG1525849
cis-1,2-Dichloroethene	5.30		0.500	1	08/14/2020 15:19	WG1525849
trans-1,2-Dichloroethene	ND		0.500	1	08/14/2020 15:19	WG1525849
1,2-Dichloropropane	ND		0.500	1	08/14/2020 15:19	WG1525849
1,1-Dichloropropene	ND		0.500	1	08/14/2020 15:19	WG1525849
1,3-Dichloropropane	ND	J4	1.00	1	08/14/2020 15:19	WG1525849
cis-1,3-Dichloropropene	ND		0.500	1	08/14/2020 15:19	WG1525849
trans-1,3-Dichloropropene	ND	J4	0.500	1	08/14/2020 15:19	WG1525849
2,2-Dichloropropane	ND		0.500	1	08/14/2020 15:19	WG1525849
Di-isopropyl ether	ND		0.500	1	08/14/2020 15:19	WG1525849
Ethylbenzene	ND	J4	0.500	1	08/14/2020 15:19	WG1525849
Hexachloro-1,3-butadiene	ND		1.00	1	08/14/2020 15:19	WG1525849
Isopropylbenzene	ND	J4	0.500	1	08/14/2020 15:19	WG1525849
p-Isopropyltoluene	ND		0.500	1	08/14/2020 15:19	WG1525849
2-Butanone (MEK)	ND		5.00	1	08/14/2020 15:19	WG1525849
Methylene Chloride	ND		2.50	1	08/14/2020 15:19	WG1525849
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	08/14/2020 15:19	WG1525849
Methyl tert-butyl ether	ND		0.500	1	08/14/2020 15:19	WG1525849
Naphthalene	ND		2.50	1	08/14/2020 15:19	WG1525849
n-Propylbenzene	ND		0.500	1	08/14/2020 15:19	WG1525849
Styrene	ND	J4	0.500	1	08/14/2020 15:19	WG1525849
1,1,1,2-Tetrachloroethane	ND	J4	0.500	1	08/14/2020 15:19	WG1525849
1,1,2,2-Tetrachloroethane	ND		0.500	1	08/14/2020 15:19	WG1525849
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	08/14/2020 15:19	WG1525849
Tetrachloroethene	2.18		0.500	1	08/14/2020 15:19	WG1525849
Toluene	ND	J4	0.500	1	08/14/2020 15:19	WG1525849
1,2,3-Trichlorobenzene	ND		0.500	1	08/14/2020 15:19	WG1525849

1 Cp

2 Tc

3 Ss

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5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/10/20 08:40

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	08/14/2020 15:19	WG1525849
1,1,1-Trichloroethane	ND		0.500	1	08/14/2020 15:19	WG1525849
1,1,2-Trichloroethane	ND	<u>J4</u>	0.500	1	08/14/2020 15:19	WG1525849
Trichloroethene	53.9		0.500	1	08/14/2020 15:19	WG1525849
Trichlorofluoromethane	ND		2.50	1	08/14/2020 15:19	WG1525849
1,2,3-Trichloropropane	ND		2.50	1	08/14/2020 15:19	WG1525849
1,2,4-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 15:19	WG1525849
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 15:19	WG1525849
1,3,5-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 15:19	WG1525849
Vinyl chloride	ND		0.500	1	08/14/2020 15:19	WG1525849
Xylenes, Total	ND	<u>J4</u>	1.50	1	08/14/2020 15:19	WG1525849
(S) Toluene-d8	109		80.0-120		08/14/2020 15:19	WG1525849
(S) Toluene-d8	106		80.0-120		08/19/2020 01:00	WG1528159
(S) 4-Bromofluorobenzene	103		77.0-126		08/14/2020 15:19	WG1525849
(S) 4-Bromofluorobenzene	102		77.0-126		08/19/2020 01:00	WG1528159
(S) 1,2-Dichloroethane-d4	101		70.0-130		08/14/2020 15:19	WG1525849
(S) 1,2-Dichloroethane-d4	98.5		70.0-130		08/19/2020 01:00	WG1528159

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	96.7	J3	25.0	1	08/19/2020 01:19	WG1528159
Acrolein	ND	J0 J3	50.0	1	08/14/2020 15:38	WG1525849
Acrylonitrile	ND		5.00	1	08/14/2020 15:38	WG1525849
Benzene	ND		0.500	1	08/14/2020 15:38	WG1525849
Bromobenzene	ND	J4	0.500	1	08/14/2020 15:38	WG1525849
Bromodichloromethane	ND		0.500	1	08/14/2020 15:38	WG1525849
Bromoform	ND		0.500	1	08/14/2020 15:38	WG1525849
Bromomethane	ND		2.50	1	08/14/2020 15:38	WG1525849
n-Butylbenzene	ND		0.500	1	08/14/2020 15:38	WG1525849
sec-Butylbenzene	ND		0.500	1	08/14/2020 15:38	WG1525849
tert-Butylbenzene	ND		0.500	1	08/14/2020 15:38	WG1525849
Carbon disulfide	ND		0.500	1	08/14/2020 15:38	WG1525849
Carbon tetrachloride	ND		0.500	1	08/14/2020 15:38	WG1525849
Chlorobenzene	ND	J4	0.500	1	08/14/2020 15:38	WG1525849
Chlorodibromomethane	ND	J4	0.500	1	08/14/2020 15:38	WG1525849
Chloroethane	ND		2.50	1	08/14/2020 15:38	WG1525849
Chloroform	ND		0.500	1	08/14/2020 15:38	WG1525849
Chloromethane	ND		1.25	1	08/14/2020 15:38	WG1525849
2-Chlorotoluene	ND		0.500	1	08/14/2020 15:38	WG1525849
4-Chlorotoluene	ND	J4	0.500	1	08/14/2020 15:38	WG1525849
1,2-Dibromo-3-Chloropropane	ND		2.50	1	08/14/2020 15:38	WG1525849
1,2-Dibromoethane	ND	J4	0.500	1	08/14/2020 15:38	WG1525849
Dibromomethane	ND	J4	0.500	1	08/14/2020 15:38	WG1525849
1,2-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 15:38	WG1525849
1,3-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 15:38	WG1525849
1,4-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 15:38	WG1525849
Dichlorodifluoromethane	ND		2.50	1	08/14/2020 15:38	WG1525849
1,1-Dichloroethane	ND		0.500	1	08/14/2020 15:38	WG1525849
1,2-Dichloroethane	ND		0.500	1	08/14/2020 15:38	WG1525849
1,1-Dichloroethene	ND		0.500	1	08/14/2020 15:38	WG1525849
cis-1,2-Dichloroethene	3.08		0.500	1	08/14/2020 15:38	WG1525849
trans-1,2-Dichloroethene	ND		0.500	1	08/14/2020 15:38	WG1525849
1,2-Dichloropropane	ND		0.500	1	08/14/2020 15:38	WG1525849
1,1-Dichloropropene	ND		0.500	1	08/14/2020 15:38	WG1525849
1,3-Dichloropropane	ND	J4	1.00	1	08/14/2020 15:38	WG1525849
cis-1,3-Dichloropropene	ND		0.500	1	08/14/2020 15:38	WG1525849
trans-1,3-Dichloropropene	ND	J4	0.500	1	08/14/2020 15:38	WG1525849
2,2-Dichloropropane	ND		0.500	1	08/14/2020 15:38	WG1525849
Di-isopropyl ether	ND		0.500	1	08/14/2020 15:38	WG1525849
Ethylbenzene	ND	J4	0.500	1	08/14/2020 15:38	WG1525849
Hexachloro-1,3-butadiene	ND		1.00	1	08/14/2020 15:38	WG1525849
Isopropylbenzene	ND	J4	0.500	1	08/14/2020 15:38	WG1525849
p-Isopropyltoluene	ND		0.500	1	08/14/2020 15:38	WG1525849
2-Butanone (MEK)	ND		5.00	1	08/14/2020 15:38	WG1525849
Methylene Chloride	ND		2.50	1	08/14/2020 15:38	WG1525849
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	08/14/2020 15:38	WG1525849
Methyl tert-butyl ether	ND		0.500	1	08/14/2020 15:38	WG1525849
Naphthalene	ND		2.50	1	08/14/2020 15:38	WG1525849
n-Propylbenzene	ND		0.500	1	08/14/2020 15:38	WG1525849
Styrene	ND	J4	0.500	1	08/14/2020 15:38	WG1525849
1,1,1,2-Tetrachloroethane	ND	J4	0.500	1	08/14/2020 15:38	WG1525849
1,1,2,2-Tetrachloroethane	ND		0.500	1	08/14/2020 15:38	WG1525849
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	08/14/2020 15:38	WG1525849
Tetrachloroethene	1.58		0.500	1	08/14/2020 15:38	WG1525849
Toluene	ND	J4	0.500	1	08/14/2020 15:38	WG1525849
1,2,3-Trichlorobenzene	ND		0.500	1	08/14/2020 15:38	WG1525849

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	08/14/2020 15:38	WG1525849
1,1,1-Trichloroethane	ND		0.500	1	08/14/2020 15:38	WG1525849
1,1,2-Trichloroethane	ND	<u>J4</u>	0.500	1	08/14/2020 15:38	WG1525849
Trichloroethene	38.7		0.500	1	08/14/2020 15:38	WG1525849
Trichlorofluoromethane	ND		2.50	1	08/14/2020 15:38	WG1525849
1,2,3-Trichloropropane	ND		2.50	1	08/14/2020 15:38	WG1525849
1,2,4-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 15:38	WG1525849
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 15:38	WG1525849
1,3,5-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 15:38	WG1525849
Vinyl chloride	ND		0.500	1	08/14/2020 15:38	WG1525849
Xylenes, Total	ND	<u>J4</u>	1.50	1	08/14/2020 15:38	WG1525849
(S) Toluene-d8	109		80.0-120		08/14/2020 15:38	WG1525849
(S) Toluene-d8	111		80.0-120		08/19/2020 01:19	WG1528159
(S) 4-Bromofluorobenzene	101		77.0-126		08/14/2020 15:38	WG1525849
(S) 4-Bromofluorobenzene	96.7		77.0-126		08/19/2020 01:19	WG1528159
(S) 1,2-Dichloroethane-d4	104		70.0-130		08/14/2020 15:38	WG1525849
(S) 1,2-Dichloroethane-d4	97.6		70.0-130		08/19/2020 01:19	WG1528159

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	37.2	J3	25.0	1	08/19/2020 01:38	WG1528159
Acrolein	ND	J0 J3	50.0	1	08/14/2020 15:58	WG1525849
Acrylonitrile	ND		5.00	1	08/14/2020 15:58	WG1525849
Benzene	ND		0.500	1	08/14/2020 15:58	WG1525849
Bromobenzene	ND	J4	0.500	1	08/14/2020 15:58	WG1525849
Bromodichloromethane	ND		0.500	1	08/14/2020 15:58	WG1525849
Bromoform	ND		0.500	1	08/14/2020 15:58	WG1525849
Bromomethane	ND		2.50	1	08/14/2020 15:58	WG1525849
n-Butylbenzene	ND		0.500	1	08/14/2020 15:58	WG1525849
sec-Butylbenzene	ND		0.500	1	08/14/2020 15:58	WG1525849
tert-Butylbenzene	ND		0.500	1	08/14/2020 15:58	WG1525849
Carbon disulfide	ND		0.500	1	08/14/2020 15:58	WG1525849
Carbon tetrachloride	ND		0.500	1	08/14/2020 15:58	WG1525849
Chlorobenzene	ND	J4	0.500	1	08/14/2020 15:58	WG1525849
Chlorodibromomethane	ND	J4	0.500	1	08/14/2020 15:58	WG1525849
Chloroethane	ND		2.50	1	08/14/2020 15:58	WG1525849
Chloroform	ND		0.500	1	08/14/2020 15:58	WG1525849
Chloromethane	ND		1.25	1	08/14/2020 15:58	WG1525849
2-Chlorotoluene	ND		0.500	1	08/14/2020 15:58	WG1525849
4-Chlorotoluene	ND	J4	0.500	1	08/14/2020 15:58	WG1525849
1,2-Dibromo-3-Chloropropane	ND		2.50	1	08/14/2020 15:58	WG1525849
1,2-Dibromoethane	ND	J4	0.500	1	08/14/2020 15:58	WG1525849
Dibromomethane	ND	J4	0.500	1	08/14/2020 15:58	WG1525849
1,2-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 15:58	WG1525849
1,3-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 15:58	WG1525849
1,4-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 15:58	WG1525849
Dichlorodifluoromethane	ND		2.50	1	08/14/2020 15:58	WG1525849
1,1-Dichloroethane	ND		0.500	1	08/14/2020 15:58	WG1525849
1,2-Dichloroethane	ND		0.500	1	08/14/2020 15:58	WG1525849
1,1-Dichloroethene	ND		0.500	1	08/14/2020 15:58	WG1525849
cis-1,2-Dichloroethene	3.05		0.500	1	08/14/2020 15:58	WG1525849
trans-1,2-Dichloroethene	ND		0.500	1	08/14/2020 15:58	WG1525849
1,2-Dichloropropane	ND		0.500	1	08/14/2020 15:58	WG1525849
1,1-Dichloropropene	ND		0.500	1	08/14/2020 15:58	WG1525849
1,3-Dichloropropane	ND	J4	1.00	1	08/14/2020 15:58	WG1525849
cis-1,3-Dichloropropene	ND		0.500	1	08/14/2020 15:58	WG1525849
trans-1,3-Dichloropropene	ND	J4	0.500	1	08/14/2020 15:58	WG1525849
2,2-Dichloropropane	ND		0.500	1	08/14/2020 15:58	WG1525849
Di-isopropyl ether	ND		0.500	1	08/14/2020 15:58	WG1525849
Ethylbenzene	ND	J4	0.500	1	08/14/2020 15:58	WG1525849
Hexachloro-1,3-butadiene	ND		1.00	1	08/14/2020 15:58	WG1525849
Isopropylbenzene	ND	J4	0.500	1	08/14/2020 15:58	WG1525849
p-Isopropyltoluene	ND		0.500	1	08/14/2020 15:58	WG1525849
2-Butanone (MEK)	ND		5.00	1	08/14/2020 15:58	WG1525849
Methylene Chloride	ND		2.50	1	08/14/2020 15:58	WG1525849
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	08/14/2020 15:58	WG1525849
Methyl tert-butyl ether	ND		0.500	1	08/14/2020 15:58	WG1525849
Naphthalene	ND		2.50	1	08/14/2020 15:58	WG1525849
n-Propylbenzene	ND		0.500	1	08/14/2020 15:58	WG1525849
Styrene	ND	J4	0.500	1	08/14/2020 15:58	WG1525849
1,1,1,2-Tetrachloroethane	ND	J4	0.500	1	08/14/2020 15:58	WG1525849
1,1,2,2-Tetrachloroethane	ND		0.500	1	08/14/2020 15:58	WG1525849
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	08/14/2020 15:58	WG1525849
Tetrachloroethene	1.59		0.500	1	08/14/2020 15:58	WG1525849
Toluene	ND	J4	0.500	1	08/14/2020 15:58	WG1525849
1,2,3-Trichlorobenzene	ND		0.500	1	08/14/2020 15:58	WG1525849

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/10/20 09:00

L1249774

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	08/14/2020 15:58	WG1525849
1,1,1-Trichloroethane	ND		0.500	1	08/14/2020 15:58	WG1525849
1,1,2-Trichloroethane	ND	<u>J4</u>	0.500	1	08/14/2020 15:58	WG1525849
Trichloroethene	37.8		0.500	1	08/14/2020 15:58	WG1525849
Trichlorofluoromethane	ND		2.50	1	08/14/2020 15:58	WG1525849
1,2,3-Trichloropropane	ND		2.50	1	08/14/2020 15:58	WG1525849
1,2,4-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 15:58	WG1525849
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 15:58	WG1525849
1,3,5-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 15:58	WG1525849
Vinyl chloride	ND		0.500	1	08/14/2020 15:58	WG1525849
Xylenes, Total	ND	<u>J4</u>	1.50	1	08/14/2020 15:58	WG1525849
(S) Toluene-d8	110		80.0-120		08/14/2020 15:58	WG1525849
(S) Toluene-d8	110		80.0-120		08/19/2020 01:38	WG1528159
(S) 4-Bromofluorobenzene	101		77.0-126		08/14/2020 15:58	WG1525849
(S) 4-Bromofluorobenzene	102		77.0-126		08/19/2020 01:38	WG1528159
(S) 1,2-Dichloroethane-d4	103		70.0-130		08/14/2020 15:58	WG1525849
(S) 1,2-Dichloroethane-d4	97.1		70.0-130		08/19/2020 01:38	WG1528159

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	77.2	J3	25.0	1	08/19/2020 01:57	WG1528159
Acrolein	ND	J0 J3	50.0	1	08/14/2020 16:17	WG1525849
Acrylonitrile	ND		5.00	1	08/14/2020 16:17	WG1525849
Benzene	ND		0.500	1	08/14/2020 16:17	WG1525849
Bromobenzene	ND	J4	0.500	1	08/14/2020 16:17	WG1525849
Bromodichloromethane	ND		0.500	1	08/14/2020 16:17	WG1525849
Bromoform	ND		0.500	1	08/14/2020 16:17	WG1525849
Bromomethane	ND		2.50	1	08/14/2020 16:17	WG1525849
n-Butylbenzene	ND		0.500	1	08/14/2020 16:17	WG1525849
sec-Butylbenzene	ND		0.500	1	08/14/2020 16:17	WG1525849
tert-Butylbenzene	ND		0.500	1	08/14/2020 16:17	WG1525849
Carbon disulfide	ND		0.500	1	08/14/2020 16:17	WG1525849
Carbon tetrachloride	ND		0.500	1	08/14/2020 16:17	WG1525849
Chlorobenzene	ND	J4	0.500	1	08/14/2020 16:17	WG1525849
Chlorodibromomethane	ND	J4	0.500	1	08/14/2020 16:17	WG1525849
Chloroethane	ND		2.50	1	08/14/2020 16:17	WG1525849
Chloroform	7.53		0.500	1	08/14/2020 16:17	WG1525849
Chloromethane	ND		1.25	1	08/14/2020 16:17	WG1525849
2-Chlorotoluene	ND		0.500	1	08/14/2020 16:17	WG1525849
4-Chlorotoluene	ND	J4	0.500	1	08/14/2020 16:17	WG1525849
1,2-Dibromo-3-Chloropropane	ND		2.50	1	08/14/2020 16:17	WG1525849
1,2-Dibromoethane	ND	J4	0.500	1	08/14/2020 16:17	WG1525849
Dibromomethane	ND	J4	0.500	1	08/14/2020 16:17	WG1525849
1,2-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 16:17	WG1525849
1,3-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 16:17	WG1525849
1,4-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 16:17	WG1525849
Dichlorodifluoromethane	ND		2.50	1	08/14/2020 16:17	WG1525849
1,1-Dichloroethane	ND		0.500	1	08/14/2020 16:17	WG1525849
1,2-Dichloroethane	ND		0.500	1	08/14/2020 16:17	WG1525849
1,1-Dichloroethene	ND		0.500	1	08/14/2020 16:17	WG1525849
cis-1,2-Dichloroethene	5.52		0.500	1	08/14/2020 16:17	WG1525849
trans-1,2-Dichloroethene	ND		0.500	1	08/14/2020 16:17	WG1525849
1,2-Dichloropropane	ND		0.500	1	08/14/2020 16:17	WG1525849
1,1-Dichloropropene	ND		0.500	1	08/14/2020 16:17	WG1525849
1,3-Dichloropropane	ND	J4	1.00	1	08/14/2020 16:17	WG1525849
cis-1,3-Dichloropropene	ND		0.500	1	08/14/2020 16:17	WG1525849
trans-1,3-Dichloropropene	ND	J4	0.500	1	08/14/2020 16:17	WG1525849
2,2-Dichloropropane	ND		0.500	1	08/14/2020 16:17	WG1525849
Di-isopropyl ether	ND		0.500	1	08/14/2020 16:17	WG1525849
Ethylbenzene	ND	J4	0.500	1	08/14/2020 16:17	WG1525849
Hexachloro-1,3-butadiene	ND		1.00	1	08/14/2020 16:17	WG1525849
Isopropylbenzene	ND	J4	0.500	1	08/14/2020 16:17	WG1525849
p-Isopropyltoluene	ND		0.500	1	08/14/2020 16:17	WG1525849
2-Butanone (MEK)	ND		5.00	1	08/14/2020 16:17	WG1525849
Methylene Chloride	ND		2.50	1	08/14/2020 16:17	WG1525849
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	08/14/2020 16:17	WG1525849
Methyl tert-butyl ether	ND		0.500	1	08/14/2020 16:17	WG1525849
Naphthalene	ND		2.50	1	08/14/2020 16:17	WG1525849
n-Propylbenzene	ND		0.500	1	08/14/2020 16:17	WG1525849
Styrene	ND	J4	0.500	1	08/14/2020 16:17	WG1525849
1,1,1,2-Tetrachloroethane	ND	J4	0.500	1	08/14/2020 16:17	WG1525849
1,1,2,2-Tetrachloroethane	ND		0.500	1	08/14/2020 16:17	WG1525849
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	08/14/2020 16:17	WG1525849
Tetrachloroethene	0.725		0.500	1	08/14/2020 16:17	WG1525849
Toluene	2.48		0.500	1	08/19/2020 01:57	WG1528159
1,2,3-Trichlorobenzene	ND		0.500	1	08/14/2020 16:17	WG1525849

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/10/20 09:25

L1249774

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	08/14/2020 16:17	WG1525849
1,1,1-Trichloroethane	ND		0.500	1	08/14/2020 16:17	WG1525849
1,1,2-Trichloroethane	ND	<u>J4</u>	0.500	1	08/14/2020 16:17	WG1525849
Trichloroethene	41.7		0.500	1	08/14/2020 16:17	WG1525849
Trichlorofluoromethane	ND		2.50	1	08/14/2020 16:17	WG1525849
1,2,3-Trichloropropane	ND		2.50	1	08/14/2020 16:17	WG1525849
1,2,4-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 16:17	WG1525849
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 16:17	WG1525849
1,3,5-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 16:17	WG1525849
Vinyl chloride	ND		0.500	1	08/14/2020 16:17	WG1525849
Xylenes, Total	ND	<u>J4</u>	1.50	1	08/14/2020 16:17	WG1525849
(S) Toluene-d8	109		80.0-120		08/14/2020 16:17	WG1525849
(S) Toluene-d8	108		80.0-120		08/19/2020 01:57	WG1528159
(S) 4-Bromofluorobenzene	100		77.0-126		08/14/2020 16:17	WG1525849
(S) 4-Bromofluorobenzene	99.2		77.0-126		08/19/2020 01:57	WG1528159
(S) 1,2-Dichloroethane-d4	103		70.0-130		08/14/2020 16:17	WG1525849
(S) 1,2-Dichloroethane-d4	102		70.0-130		08/19/2020 01:57	WG1528159

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	62.2	J3	25.0	1	08/19/2020 02:16	WG1528159
Acrolein	ND	J0 J3	50.0	1	08/14/2020 16:37	WG1525849
Acrylonitrile	ND		5.00	1	08/14/2020 16:37	WG1525849
Benzene	ND		0.500	1	08/14/2020 16:37	WG1525849
Bromobenzene	ND	J4	0.500	1	08/14/2020 16:37	WG1525849
Bromodichloromethane	ND		0.500	1	08/14/2020 16:37	WG1525849
Bromoform	ND		0.500	1	08/14/2020 16:37	WG1525849
Bromomethane	ND		2.50	1	08/14/2020 16:37	WG1525849
n-Butylbenzene	ND		0.500	1	08/14/2020 16:37	WG1525849
sec-Butylbenzene	ND		0.500	1	08/14/2020 16:37	WG1525849
tert-Butylbenzene	ND		0.500	1	08/14/2020 16:37	WG1525849
Carbon disulfide	ND		0.500	1	08/14/2020 16:37	WG1525849
Carbon tetrachloride	ND		0.500	1	08/14/2020 16:37	WG1525849
Chlorobenzene	ND	J4	0.500	1	08/14/2020 16:37	WG1525849
Chlorodibromomethane	ND	J4	0.500	1	08/14/2020 16:37	WG1525849
Chloroethane	ND		2.50	1	08/14/2020 16:37	WG1525849
Chloroform	1.36		0.500	1	08/14/2020 16:37	WG1525849
Chloromethane	ND		1.25	1	08/14/2020 16:37	WG1525849
2-Chlorotoluene	ND		0.500	1	08/14/2020 16:37	WG1525849
4-Chlorotoluene	ND	J4	0.500	1	08/14/2020 16:37	WG1525849
1,2-Dibromo-3-Chloropropane	ND		2.50	1	08/14/2020 16:37	WG1525849
1,2-Dibromoethane	ND	J4	0.500	1	08/14/2020 16:37	WG1525849
Dibromomethane	ND	J4	0.500	1	08/14/2020 16:37	WG1525849
1,2-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 16:37	WG1525849
1,3-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 16:37	WG1525849
1,4-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 16:37	WG1525849
Dichlorodifluoromethane	ND		2.50	1	08/14/2020 16:37	WG1525849
1,1-Dichloroethane	ND		0.500	1	08/14/2020 16:37	WG1525849
1,2-Dichloroethane	ND		0.500	1	08/14/2020 16:37	WG1525849
1,1-Dichloroethene	ND		0.500	1	08/14/2020 16:37	WG1525849
cis-1,2-Dichloroethene	10.0		0.500	1	08/14/2020 16:37	WG1525849
trans-1,2-Dichloroethene	ND		0.500	1	08/14/2020 16:37	WG1525849
1,2-Dichloropropane	ND		0.500	1	08/14/2020 16:37	WG1525849
1,1-Dichloropropene	ND		0.500	1	08/14/2020 16:37	WG1525849
1,3-Dichloropropane	ND	J4	1.00	1	08/14/2020 16:37	WG1525849
cis-1,3-Dichloropropene	ND		0.500	1	08/14/2020 16:37	WG1525849
trans-1,3-Dichloropropene	ND	J4	0.500	1	08/14/2020 16:37	WG1525849
2,2-Dichloropropane	ND		0.500	1	08/14/2020 16:37	WG1525849
Di-isopropyl ether	ND		0.500	1	08/14/2020 16:37	WG1525849
Ethylbenzene	ND	J4	0.500	1	08/14/2020 16:37	WG1525849
Hexachloro-1,3-butadiene	ND		1.00	1	08/14/2020 16:37	WG1525849
Isopropylbenzene	ND	J4	0.500	1	08/14/2020 16:37	WG1525849
p-Isopropyltoluene	ND		0.500	1	08/14/2020 16:37	WG1525849
2-Butanone (MEK)	ND		5.00	1	08/14/2020 16:37	WG1525849
Methylene Chloride	ND		2.50	1	08/14/2020 16:37	WG1525849
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	08/14/2020 16:37	WG1525849
Methyl tert-butyl ether	ND		0.500	1	08/14/2020 16:37	WG1525849
Naphthalene	ND		2.50	1	08/14/2020 16:37	WG1525849
n-Propylbenzene	ND		0.500	1	08/14/2020 16:37	WG1525849
Styrene	ND	J4	0.500	1	08/14/2020 16:37	WG1525849
1,1,1,2-Tetrachloroethane	ND	J4	0.500	1	08/14/2020 16:37	WG1525849
1,1,2,2-Tetrachloroethane	ND		0.500	1	08/14/2020 16:37	WG1525849
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	08/14/2020 16:37	WG1525849
Tetrachloroethene	0.732		0.500	1	08/14/2020 16:37	WG1525849
Toluene	1.74		0.500	1	08/19/2020 02:16	WG1528159
1,2,3-Trichlorobenzene	ND		0.500	1	08/14/2020 16:37	WG1525849

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/10/20 09:35

L1249774

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	08/14/2020 16:37	WG1525849
1,1,1-Trichloroethane	ND		0.500	1	08/14/2020 16:37	WG1525849
1,1,2-Trichloroethane	ND	<u>J4</u>	0.500	1	08/14/2020 16:37	WG1525849
Trichloroethene	58.9		0.500	1	08/14/2020 16:37	WG1525849
Trichlorofluoromethane	ND		2.50	1	08/14/2020 16:37	WG1525849
1,2,3-Trichloropropane	ND		2.50	1	08/14/2020 16:37	WG1525849
1,2,4-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 16:37	WG1525849
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 16:37	WG1525849
1,3,5-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 16:37	WG1525849
Vinyl chloride	ND		0.500	1	08/14/2020 16:37	WG1525849
Xylenes, Total	ND	<u>J4</u>	1.50	1	08/14/2020 16:37	WG1525849
(S) Toluene-d8	110		80.0-120		08/14/2020 16:37	WG1525849
(S) Toluene-d8	106		80.0-120		08/19/2020 02:16	WG1528159
(S) 4-Bromofluorobenzene	100		77.0-126		08/14/2020 16:37	WG1525849
(S) 4-Bromofluorobenzene	104		77.0-126		08/19/2020 02:16	WG1528159
(S) 1,2-Dichloroethane-d4	104		70.0-130		08/14/2020 16:37	WG1525849
(S) 1,2-Dichloroethane-d4	104		70.0-130		08/19/2020 02:16	WG1528159

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	98.9	J3	25.0	1	08/19/2020 02:36	WG1528159
Acrolein	ND	J0 J3	50.0	1	08/14/2020 16:56	WG1525849
Acrylonitrile	ND		5.00	1	08/14/2020 16:56	WG1525849
Benzene	ND		0.500	1	08/14/2020 16:56	WG1525849
Bromobenzene	ND	J4	0.500	1	08/14/2020 16:56	WG1525849
Bromodichloromethane	ND		0.500	1	08/14/2020 16:56	WG1525849
Bromoform	ND		0.500	1	08/14/2020 16:56	WG1525849
Bromomethane	ND		2.50	1	08/14/2020 16:56	WG1525849
n-Butylbenzene	ND		0.500	1	08/14/2020 16:56	WG1525849
sec-Butylbenzene	ND		0.500	1	08/14/2020 16:56	WG1525849
tert-Butylbenzene	ND		0.500	1	08/14/2020 16:56	WG1525849
Carbon disulfide	ND		0.500	1	08/14/2020 16:56	WG1525849
Carbon tetrachloride	ND		0.500	1	08/14/2020 16:56	WG1525849
Chlorobenzene	ND	J4	0.500	1	08/14/2020 16:56	WG1525849
Chlorodibromomethane	ND	J4	0.500	1	08/14/2020 16:56	WG1525849
Chloroethane	ND		2.50	1	08/14/2020 16:56	WG1525849
Chloroform	ND		0.500	1	08/14/2020 16:56	WG1525849
Chloromethane	ND		1.25	1	08/14/2020 16:56	WG1525849
2-Chlorotoluene	ND		0.500	1	08/14/2020 16:56	WG1525849
4-Chlorotoluene	ND	J4	0.500	1	08/14/2020 16:56	WG1525849
1,2-Dibromo-3-Chloropropane	ND		2.50	1	08/14/2020 16:56	WG1525849
1,2-Dibromoethane	ND	J4	0.500	1	08/14/2020 16:56	WG1525849
Dibromomethane	ND	J4	0.500	1	08/14/2020 16:56	WG1525849
1,2-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 16:56	WG1525849
1,3-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 16:56	WG1525849
1,4-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 16:56	WG1525849
Dichlorodifluoromethane	ND		2.50	1	08/14/2020 16:56	WG1525849
1,1-Dichloroethane	ND		0.500	1	08/14/2020 16:56	WG1525849
1,2-Dichloroethane	ND		0.500	1	08/14/2020 16:56	WG1525849
1,1-Dichloroethene	ND		0.500	1	08/14/2020 16:56	WG1525849
cis-1,2-Dichloroethene	ND		0.500	1	08/14/2020 16:56	WG1525849
trans-1,2-Dichloroethene	ND		0.500	1	08/14/2020 16:56	WG1525849
1,2-Dichloropropane	ND		0.500	1	08/14/2020 16:56	WG1525849
1,1-Dichloropropene	ND		0.500	1	08/14/2020 16:56	WG1525849
1,3-Dichloropropane	ND	J4	1.00	1	08/14/2020 16:56	WG1525849
cis-1,3-Dichloropropene	ND		0.500	1	08/14/2020 16:56	WG1525849
trans-1,3-Dichloropropene	ND	J4	0.500	1	08/14/2020 16:56	WG1525849
2,2-Dichloropropane	ND		0.500	1	08/14/2020 16:56	WG1525849
Di-isopropyl ether	ND		0.500	1	08/14/2020 16:56	WG1525849
Ethylbenzene	ND	J4	0.500	1	08/14/2020 16:56	WG1525849
Hexachloro-1,3-butadiene	ND		1.00	1	08/14/2020 16:56	WG1525849
Isopropylbenzene	ND	J4	0.500	1	08/14/2020 16:56	WG1525849
p-Isopropyltoluene	ND		0.500	1	08/14/2020 16:56	WG1525849
2-Butanone (MEK)	ND		5.00	1	08/14/2020 16:56	WG1525849
Methylene Chloride	ND		2.50	1	08/14/2020 16:56	WG1525849
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	08/14/2020 16:56	WG1525849
Methyl tert-butyl ether	ND		0.500	1	08/14/2020 16:56	WG1525849
Naphthalene	ND		2.50	1	08/14/2020 16:56	WG1525849
n-Propylbenzene	ND		0.500	1	08/14/2020 16:56	WG1525849
Styrene	ND	J4	0.500	1	08/14/2020 16:56	WG1525849
1,1,1,2-Tetrachloroethane	ND	J4	0.500	1	08/14/2020 16:56	WG1525849
1,1,2,2-Tetrachloroethane	ND		0.500	1	08/14/2020 16:56	WG1525849
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	08/14/2020 16:56	WG1525849
Tetrachloroethene	ND		0.500	1	08/14/2020 16:56	WG1525849
Toluene	ND	J4	0.500	1	08/14/2020 16:56	WG1525849
1,2,3-Trichlorobenzene	ND		0.500	1	08/14/2020 16:56	WG1525849

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/10/20 10:00

L1249774

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	08/14/2020 16:56	WG1525849
1,1,1-Trichloroethane	ND		0.500	1	08/14/2020 16:56	WG1525849
1,1,2-Trichloroethane	ND	<u>J4</u>	0.500	1	08/14/2020 16:56	WG1525849
Trichloroethene	1.02		0.500	1	08/14/2020 16:56	WG1525849
Trichlorofluoromethane	ND		2.50	1	08/14/2020 16:56	WG1525849
1,2,3-Trichloropropane	ND		2.50	1	08/14/2020 16:56	WG1525849
1,2,4-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 16:56	WG1525849
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 16:56	WG1525849
1,3,5-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 16:56	WG1525849
Vinyl chloride	ND		0.500	1	08/14/2020 16:56	WG1525849
Xylenes, Total	ND	<u>J4</u>	1.50	1	08/14/2020 16:56	WG1525849
(S) Toluene-d8	109		80.0-120		08/14/2020 16:56	WG1525849
(S) Toluene-d8	105		80.0-120		08/19/2020 02:36	WG1528159
(S) 4-Bromofluorobenzene	99.9		77.0-126		08/14/2020 16:56	WG1525849
(S) 4-Bromofluorobenzene	108		77.0-126		08/19/2020 02:36	WG1528159
(S) 1,2-Dichloroethane-d4	102		70.0-130		08/14/2020 16:56	WG1525849
(S) 1,2-Dichloroethane-d4	108		70.0-130		08/19/2020 02:36	WG1528159

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	72.2	J3	25.0	1	08/19/2020 02:55	WG1528159
Acrolein	ND	J0 J3	50.0	1	08/14/2020 17:15	WG1525849
Acrylonitrile	ND		5.00	1	08/14/2020 17:15	WG1525849
Benzene	ND		0.500	1	08/14/2020 17:15	WG1525849
Bromobenzene	ND	J4	0.500	1	08/14/2020 17:15	WG1525849
Bromodichloromethane	ND		0.500	1	08/14/2020 17:15	WG1525849
Bromoform	ND		0.500	1	08/14/2020 17:15	WG1525849
Bromomethane	ND		2.50	1	08/14/2020 17:15	WG1525849
n-Butylbenzene	ND		0.500	1	08/14/2020 17:15	WG1525849
sec-Butylbenzene	ND		0.500	1	08/14/2020 17:15	WG1525849
tert-Butylbenzene	ND		0.500	1	08/14/2020 17:15	WG1525849
Carbon disulfide	ND		0.500	1	08/14/2020 17:15	WG1525849
Carbon tetrachloride	ND		0.500	1	08/14/2020 17:15	WG1525849
Chlorobenzene	ND	J4	0.500	1	08/14/2020 17:15	WG1525849
Chlorodibromomethane	ND	J4	0.500	1	08/14/2020 17:15	WG1525849
Chloroethane	ND		2.50	1	08/14/2020 17:15	WG1525849
Chloroform	ND		0.500	1	08/14/2020 17:15	WG1525849
Chloromethane	ND		1.25	1	08/14/2020 17:15	WG1525849
2-Chlorotoluene	ND		0.500	1	08/14/2020 17:15	WG1525849
4-Chlorotoluene	ND	J4	0.500	1	08/14/2020 17:15	WG1525849
1,2-Dibromo-3-Chloropropane	ND		2.50	1	08/14/2020 17:15	WG1525849
1,2-Dibromoethane	ND	J4	0.500	1	08/14/2020 17:15	WG1525849
Dibromomethane	ND	J4	0.500	1	08/14/2020 17:15	WG1525849
1,2-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 17:15	WG1525849
1,3-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 17:15	WG1525849
1,4-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 17:15	WG1525849
Dichlorodifluoromethane	ND		2.50	1	08/14/2020 17:15	WG1525849
1,1-Dichloroethane	ND		0.500	1	08/14/2020 17:15	WG1525849
1,2-Dichloroethane	ND		0.500	1	08/14/2020 17:15	WG1525849
1,1-Dichloroethene	ND		0.500	1	08/14/2020 17:15	WG1525849
cis-1,2-Dichloroethene	ND		0.500	1	08/14/2020 17:15	WG1525849
trans-1,2-Dichloroethene	ND		0.500	1	08/14/2020 17:15	WG1525849
1,2-Dichloropropane	ND		0.500	1	08/14/2020 17:15	WG1525849
1,1-Dichloropropene	ND		0.500	1	08/14/2020 17:15	WG1525849
1,3-Dichloropropane	ND	J4	1.00	1	08/14/2020 17:15	WG1525849
cis-1,3-Dichloropropene	ND		0.500	1	08/14/2020 17:15	WG1525849
trans-1,3-Dichloropropene	ND	J4	0.500	1	08/14/2020 17:15	WG1525849
2,2-Dichloropropane	ND		0.500	1	08/14/2020 17:15	WG1525849
Di-isopropyl ether	ND		0.500	1	08/14/2020 17:15	WG1525849
Ethylbenzene	ND	J4	0.500	1	08/14/2020 17:15	WG1525849
Hexachloro-1,3-butadiene	ND		1.00	1	08/14/2020 17:15	WG1525849
Isopropylbenzene	ND	J4	0.500	1	08/14/2020 17:15	WG1525849
p-Isopropyltoluene	ND		0.500	1	08/14/2020 17:15	WG1525849
2-Butanone (MEK)	ND		5.00	1	08/14/2020 17:15	WG1525849
Methylene Chloride	ND		2.50	1	08/14/2020 17:15	WG1525849
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	08/14/2020 17:15	WG1525849
Methyl tert-butyl ether	ND		0.500	1	08/14/2020 17:15	WG1525849
Naphthalene	ND		2.50	1	08/14/2020 17:15	WG1525849
n-Propylbenzene	ND		0.500	1	08/14/2020 17:15	WG1525849
Styrene	ND	J4	0.500	1	08/14/2020 17:15	WG1525849
1,1,1,2-Tetrachloroethane	ND	J4	0.500	1	08/14/2020 17:15	WG1525849
1,1,2,2-Tetrachloroethane	ND		0.500	1	08/14/2020 17:15	WG1525849
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	08/14/2020 17:15	WG1525849
Tetrachloroethene	ND		0.500	1	08/14/2020 17:15	WG1525849
Toluene	ND	J4	0.500	1	08/14/2020 17:15	WG1525849
1,2,3-Trichlorobenzene	ND		0.500	1	08/14/2020 17:15	WG1525849

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/10/20 10:10

L1249774

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	08/14/2020 17:15	WG1525849
1,1,1-Trichloroethane	ND		0.500	1	08/14/2020 17:15	WG1525849
1,1,2-Trichloroethane	ND	<u>J4</u>	0.500	1	08/14/2020 17:15	WG1525849
Trichloroethene	1.26		0.500	1	08/14/2020 17:15	WG1525849
Trichlorofluoromethane	ND		2.50	1	08/14/2020 17:15	WG1525849
1,2,3-Trichloropropane	ND		2.50	1	08/14/2020 17:15	WG1525849
1,2,4-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 17:15	WG1525849
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 17:15	WG1525849
1,3,5-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 17:15	WG1525849
Vinyl chloride	ND		0.500	1	08/14/2020 17:15	WG1525849
Xylenes, Total	ND	<u>J4</u>	1.50	1	08/14/2020 17:15	WG1525849
(S) Toluene-d8	109		80.0-120		08/14/2020 17:15	WG1525849
(S) Toluene-d8	107		80.0-120		08/19/2020 02:55	WG1528159
(S) 4-Bromofluorobenzene	99.4		77.0-126		08/14/2020 17:15	WG1525849
(S) 4-Bromofluorobenzene	99.1		77.0-126		08/19/2020 02:55	WG1528159
(S) 1,2-Dichloroethane-d4	103		70.0-130		08/14/2020 17:15	WG1525849
(S) 1,2-Dichloroethane-d4	111		70.0-130		08/19/2020 02:55	WG1528159

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	92.7	J3	25.0	1	08/19/2020 03:14	WG1528159
Acrolein	ND	J0 J3	50.0	1	08/14/2020 17:35	WG1525849
Acrylonitrile	ND		5.00	1	08/14/2020 17:35	WG1525849
Benzene	ND		0.500	1	08/14/2020 17:35	WG1525849
Bromobenzene	ND	J4	0.500	1	08/14/2020 17:35	WG1525849
Bromodichloromethane	ND		0.500	1	08/14/2020 17:35	WG1525849
Bromoform	ND		0.500	1	08/14/2020 17:35	WG1525849
Bromomethane	ND		2.50	1	08/14/2020 17:35	WG1525849
n-Butylbenzene	ND		0.500	1	08/14/2020 17:35	WG1525849
sec-Butylbenzene	ND		0.500	1	08/14/2020 17:35	WG1525849
tert-Butylbenzene	ND		0.500	1	08/14/2020 17:35	WG1525849
Carbon disulfide	ND		0.500	1	08/14/2020 17:35	WG1525849
Carbon tetrachloride	ND		0.500	1	08/14/2020 17:35	WG1525849
Chlorobenzene	ND	J4	0.500	1	08/14/2020 17:35	WG1525849
Chlorodibromomethane	ND	J4	0.500	1	08/14/2020 17:35	WG1525849
Chloroethane	ND		2.50	1	08/14/2020 17:35	WG1525849
Chloroform	ND		0.500	1	08/14/2020 17:35	WG1525849
Chloromethane	ND		1.25	1	08/14/2020 17:35	WG1525849
2-Chlorotoluene	ND		0.500	1	08/14/2020 17:35	WG1525849
4-Chlorotoluene	ND	J4	0.500	1	08/14/2020 17:35	WG1525849
1,2-Dibromo-3-Chloropropane	ND		2.50	1	08/14/2020 17:35	WG1525849
1,2-Dibromoethane	ND	J4	0.500	1	08/14/2020 17:35	WG1525849
Dibromomethane	ND	J4	0.500	1	08/14/2020 17:35	WG1525849
1,2-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 17:35	WG1525849
1,3-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 17:35	WG1525849
1,4-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 17:35	WG1525849
Dichlorodifluoromethane	ND		2.50	1	08/14/2020 17:35	WG1525849
1,1-Dichloroethane	ND		0.500	1	08/14/2020 17:35	WG1525849
1,2-Dichloroethane	ND		0.500	1	08/14/2020 17:35	WG1525849
1,1-Dichloroethene	ND		0.500	1	08/14/2020 17:35	WG1525849
cis-1,2-Dichloroethene	ND		0.500	1	08/14/2020 17:35	WG1525849
trans-1,2-Dichloroethene	ND		0.500	1	08/14/2020 17:35	WG1525849
1,2-Dichloropropane	ND		0.500	1	08/14/2020 17:35	WG1525849
1,1-Dichloropropene	ND		0.500	1	08/14/2020 17:35	WG1525849
1,3-Dichloropropane	ND	J4	1.00	1	08/14/2020 17:35	WG1525849
cis-1,3-Dichloropropene	ND		0.500	1	08/14/2020 17:35	WG1525849
trans-1,3-Dichloropropene	ND	J4	0.500	1	08/14/2020 17:35	WG1525849
2,2-Dichloropropane	ND		0.500	1	08/14/2020 17:35	WG1525849
Di-isopropyl ether	ND		0.500	1	08/14/2020 17:35	WG1525849
Ethylbenzene	ND	J4	0.500	1	08/14/2020 17:35	WG1525849
Hexachloro-1,3-butadiene	ND		1.00	1	08/14/2020 17:35	WG1525849
Isopropylbenzene	ND	J4	0.500	1	08/14/2020 17:35	WG1525849
p-Isopropyltoluene	ND		0.500	1	08/14/2020 17:35	WG1525849
2-Butanone (MEK)	ND		5.00	1	08/14/2020 17:35	WG1525849
Methylene Chloride	ND		2.50	1	08/14/2020 17:35	WG1525849
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	08/14/2020 17:35	WG1525849
Methyl tert-butyl ether	ND		0.500	1	08/14/2020 17:35	WG1525849
Naphthalene	ND		2.50	1	08/14/2020 17:35	WG1525849
n-Propylbenzene	ND		0.500	1	08/14/2020 17:35	WG1525849
Styrene	ND	J4	0.500	1	08/14/2020 17:35	WG1525849
1,1,1,2-Tetrachloroethane	ND	J4	0.500	1	08/14/2020 17:35	WG1525849
1,1,2,2-Tetrachloroethane	ND		0.500	1	08/14/2020 17:35	WG1525849
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	08/14/2020 17:35	WG1525849
Tetrachloroethene	ND		0.500	1	08/14/2020 17:35	WG1525849
Toluene	ND	J4	0.500	1	08/14/2020 17:35	WG1525849
1,2,3-Trichlorobenzene	ND		0.500	1	08/14/2020 17:35	WG1525849

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/10/20 10:25

L1249774

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	08/14/2020 17:35	WG1525849
1,1,1-Trichloroethane	ND		0.500	1	08/14/2020 17:35	WG1525849
1,1,2-Trichloroethane	ND	<u>J4</u>	0.500	1	08/14/2020 17:35	WG1525849
Trichloroethene	ND		0.500	1	08/14/2020 17:35	WG1525849
Trichlorofluoromethane	ND		2.50	1	08/14/2020 17:35	WG1525849
1,2,3-Trichloropropane	ND		2.50	1	08/14/2020 17:35	WG1525849
1,2,4-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 17:35	WG1525849
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 17:35	WG1525849
1,3,5-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 17:35	WG1525849
Vinyl chloride	ND		0.500	1	08/14/2020 17:35	WG1525849
Xylenes, Total	ND	<u>J4</u>	1.50	1	08/14/2020 17:35	WG1525849
(S) Toluene-d8	111		80.0-120		08/14/2020 17:35	WG1525849
(S) Toluene-d8	106		80.0-120		08/19/2020 03:14	WG1528159
(S) 4-Bromofluorobenzene	102		77.0-126		08/14/2020 17:35	WG1525849
(S) 4-Bromofluorobenzene	102		77.0-126		08/19/2020 03:14	WG1528159
(S) 1,2-Dichloroethane-d4	105		70.0-130		08/14/2020 17:35	WG1525849
(S) 1,2-Dichloroethane-d4	113		70.0-130		08/19/2020 03:14	WG1528159

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	56.5	<u>J3</u>	25.0	1	08/19/2020 03:33	WG1528159
Acrolein	ND	<u>J0 J3</u>	50.0	1	08/14/2020 17:54	WG1525849
Acrylonitrile	ND		5.00	1	08/14/2020 17:54	WG1525849
Benzene	ND		0.500	1	08/14/2020 17:54	WG1525849
Bromobenzene	ND	<u>J4</u>	0.500	1	08/14/2020 17:54	WG1525849
Bromodichloromethane	ND		0.500	1	08/14/2020 17:54	WG1525849
Bromoform	ND		0.500	1	08/14/2020 17:54	WG1525849
Bromomethane	ND		2.50	1	08/14/2020 17:54	WG1525849
n-Butylbenzene	ND		0.500	1	08/14/2020 17:54	WG1525849
sec-Butylbenzene	ND		0.500	1	08/14/2020 17:54	WG1525849
tert-Butylbenzene	ND		0.500	1	08/14/2020 17:54	WG1525849
Carbon disulfide	ND		0.500	1	08/14/2020 17:54	WG1525849
Carbon tetrachloride	ND		0.500	1	08/14/2020 17:54	WG1525849
Chlorobenzene	ND	<u>J4</u>	0.500	1	08/14/2020 17:54	WG1525849
Chlorodibromomethane	ND	<u>J4</u>	0.500	1	08/14/2020 17:54	WG1525849
Chloroethane	ND		2.50	1	08/14/2020 17:54	WG1525849
Chloroform	ND		0.500	1	08/14/2020 17:54	WG1525849
Chloromethane	ND		1.25	1	08/14/2020 17:54	WG1525849
2-Chlorotoluene	ND		0.500	1	08/14/2020 17:54	WG1525849
4-Chlorotoluene	ND	<u>J4</u>	0.500	1	08/14/2020 17:54	WG1525849
1,2-Dibromo-3-Chloropropane	ND		2.50	1	08/14/2020 17:54	WG1525849
1,2-Dibromoethane	ND	<u>J4</u>	0.500	1	08/14/2020 17:54	WG1525849
Dibromomethane	ND	<u>J4</u>	0.500	1	08/14/2020 17:54	WG1525849
1,2-Dichlorobenzene	ND	<u>J4</u>	0.500	1	08/14/2020 17:54	WG1525849
1,3-Dichlorobenzene	ND	<u>J4</u>	0.500	1	08/14/2020 17:54	WG1525849
1,4-Dichlorobenzene	ND	<u>J4</u>	0.500	1	08/14/2020 17:54	WG1525849
Dichlorodifluoromethane	ND		2.50	1	08/14/2020 17:54	WG1525849
1,1-Dichloroethane	ND		0.500	1	08/14/2020 17:54	WG1525849
1,2-Dichloroethane	ND		0.500	1	08/14/2020 17:54	WG1525849
1,1-Dichloroethene	ND		0.500	1	08/14/2020 17:54	WG1525849
cis-1,2-Dichloroethene	ND		0.500	1	08/14/2020 17:54	WG1525849
trans-1,2-Dichloroethene	ND		0.500	1	08/14/2020 17:54	WG1525849
1,2-Dichloropropane	ND		0.500	1	08/14/2020 17:54	WG1525849
1,1-Dichloropropene	ND		0.500	1	08/14/2020 17:54	WG1525849
1,3-Dichloropropane	ND	<u>J4</u>	1.00	1	08/14/2020 17:54	WG1525849
cis-1,3-Dichloropropene	ND		0.500	1	08/14/2020 17:54	WG1525849
trans-1,3-Dichloropropene	ND	<u>J4</u>	0.500	1	08/14/2020 17:54	WG1525849
2,2-Dichloropropane	ND		0.500	1	08/14/2020 17:54	WG1525849
Di-isopropyl ether	ND		0.500	1	08/14/2020 17:54	WG1525849
Ethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 17:54	WG1525849
Hexachloro-1,3-butadiene	ND		1.00	1	08/14/2020 17:54	WG1525849
Isopropylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 17:54	WG1525849
p-Isopropyltoluene	ND		0.500	1	08/14/2020 17:54	WG1525849
2-Butanone (MEK)	ND		5.00	1	08/14/2020 17:54	WG1525849
Methylene Chloride	ND		2.50	1	08/14/2020 17:54	WG1525849
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	08/14/2020 17:54	WG1525849
Methyl tert-butyl ether	ND		0.500	1	08/14/2020 17:54	WG1525849
Naphthalene	ND		2.50	1	08/14/2020 17:54	WG1525849
n-Propylbenzene	ND		0.500	1	08/14/2020 17:54	WG1525849
Styrene	ND	<u>J4</u>	0.500	1	08/14/2020 17:54	WG1525849
1,1,1,2-Tetrachloroethane	ND	<u>J4</u>	0.500	1	08/14/2020 17:54	WG1525849
1,1,2,2-Tetrachloroethane	ND		0.500	1	08/14/2020 17:54	WG1525849
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	08/14/2020 17:54	WG1525849
Tetrachloroethene	ND		0.500	1	08/14/2020 17:54	WG1525849
Toluene	ND	<u>J4</u>	0.500	1	08/14/2020 17:54	WG1525849
1,2,3-Trichlorobenzene	ND		0.500	1	08/14/2020 17:54	WG1525849

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/10/20 10:35

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	08/14/2020 17:54	WG1525849
1,1,1-Trichloroethane	ND		0.500	1	08/14/2020 17:54	WG1525849
1,1,2-Trichloroethane	ND	<u>J4</u>	0.500	1	08/14/2020 17:54	WG1525849
Trichloroethene	ND		0.500	1	08/14/2020 17:54	WG1525849
Trichlorofluoromethane	ND		2.50	1	08/14/2020 17:54	WG1525849
1,2,3-Trichloropropane	ND		2.50	1	08/14/2020 17:54	WG1525849
1,2,4-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 17:54	WG1525849
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 17:54	WG1525849
1,3,5-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 17:54	WG1525849
Vinyl chloride	ND		0.500	1	08/14/2020 17:54	WG1525849
Xylenes, Total	ND	<u>J4</u>	1.50	1	08/14/2020 17:54	WG1525849
(S) Toluene-d8	109		80.0-120		08/14/2020 17:54	WG1525849
(S) Toluene-d8	106		80.0-120		08/19/2020 03:33	WG1528159
(S) 4-Bromofluorobenzene	99.1		77.0-126		08/14/2020 17:54	WG1525849
(S) 4-Bromofluorobenzene	108		77.0-126		08/19/2020 03:33	WG1528159
(S) 1,2-Dichloroethane-d4	106		70.0-130		08/14/2020 17:54	WG1525849
(S) 1,2-Dichloroethane-d4	117		70.0-130		08/19/2020 03:33	WG1528159

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	113	J3	25.0	1	08/19/2020 03:52	WG1528159
Acrolein	ND	J0 J3	50.0	1	08/14/2020 18:13	WG1525849
Acrylonitrile	ND		5.00	1	08/14/2020 18:13	WG1525849
Benzene	ND		0.500	1	08/14/2020 18:13	WG1525849
Bromobenzene	ND	J4	0.500	1	08/14/2020 18:13	WG1525849
Bromodichloromethane	ND		0.500	1	08/14/2020 18:13	WG1525849
Bromoform	ND		0.500	1	08/14/2020 18:13	WG1525849
Bromomethane	ND		2.50	1	08/14/2020 18:13	WG1525849
n-Butylbenzene	ND		0.500	1	08/14/2020 18:13	WG1525849
sec-Butylbenzene	ND		0.500	1	08/14/2020 18:13	WG1525849
tert-Butylbenzene	ND		0.500	1	08/14/2020 18:13	WG1525849
Carbon disulfide	ND		0.500	1	08/14/2020 18:13	WG1525849
Carbon tetrachloride	ND		0.500	1	08/14/2020 18:13	WG1525849
Chlorobenzene	ND	J4	0.500	1	08/14/2020 18:13	WG1525849
Chlorodibromomethane	ND	J4	0.500	1	08/14/2020 18:13	WG1525849
Chloroethane	ND		2.50	1	08/14/2020 18:13	WG1525849
Chloroform	ND		0.500	1	08/14/2020 18:13	WG1525849
Chloromethane	ND		1.25	1	08/14/2020 18:13	WG1525849
2-Chlorotoluene	ND		0.500	1	08/14/2020 18:13	WG1525849
4-Chlorotoluene	ND	J4	0.500	1	08/14/2020 18:13	WG1525849
1,2-Dibromo-3-Chloropropane	ND		2.50	1	08/14/2020 18:13	WG1525849
1,2-Dibromoethane	ND	J4	0.500	1	08/14/2020 18:13	WG1525849
Dibromomethane	ND	J4	0.500	1	08/14/2020 18:13	WG1525849
1,2-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 18:13	WG1525849
1,3-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 18:13	WG1525849
1,4-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 18:13	WG1525849
Dichlorodifluoromethane	ND		2.50	1	08/14/2020 18:13	WG1525849
1,1-Dichloroethane	ND		0.500	1	08/14/2020 18:13	WG1525849
1,2-Dichloroethane	ND		0.500	1	08/14/2020 18:13	WG1525849
1,1-Dichloroethene	ND		0.500	1	08/14/2020 18:13	WG1525849
cis-1,2-Dichloroethene	ND		0.500	1	08/14/2020 18:13	WG1525849
trans-1,2-Dichloroethene	ND		0.500	1	08/14/2020 18:13	WG1525849
1,2-Dichloropropane	ND		0.500	1	08/14/2020 18:13	WG1525849
1,1-Dichloropropene	ND		0.500	1	08/14/2020 18:13	WG1525849
1,3-Dichloropropane	ND	J4	1.00	1	08/14/2020 18:13	WG1525849
cis-1,3-Dichloropropene	ND		0.500	1	08/14/2020 18:13	WG1525849
trans-1,3-Dichloropropene	ND	J4	0.500	1	08/14/2020 18:13	WG1525849
2,2-Dichloropropane	ND		0.500	1	08/14/2020 18:13	WG1525849
Di-isopropyl ether	ND		0.500	1	08/14/2020 18:13	WG1525849
Ethylbenzene	ND	J4	0.500	1	08/14/2020 18:13	WG1525849
Hexachloro-1,3-butadiene	ND		1.00	1	08/14/2020 18:13	WG1525849
Isopropylbenzene	ND	J4	0.500	1	08/14/2020 18:13	WG1525849
p-Isopropyltoluene	ND		0.500	1	08/14/2020 18:13	WG1525849
2-Butanone (MEK)	ND		5.00	1	08/14/2020 18:13	WG1525849
Methylene Chloride	ND		2.50	1	08/14/2020 18:13	WG1525849
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	08/14/2020 18:13	WG1525849
Methyl tert-butyl ether	ND		0.500	1	08/14/2020 18:13	WG1525849
Naphthalene	ND		2.50	1	08/14/2020 18:13	WG1525849
n-Propylbenzene	ND		0.500	1	08/14/2020 18:13	WG1525849
Styrene	ND	J4	0.500	1	08/14/2020 18:13	WG1525849
1,1,1,2-Tetrachloroethane	ND	J4	0.500	1	08/14/2020 18:13	WG1525849
1,1,2,2-Tetrachloroethane	ND		0.500	1	08/14/2020 18:13	WG1525849
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	08/14/2020 18:13	WG1525849
Tetrachloroethene	ND		0.500	1	08/14/2020 18:13	WG1525849
Toluene	ND	J4	0.500	1	08/14/2020 18:13	WG1525849
1,2,3-Trichlorobenzene	ND		0.500	1	08/14/2020 18:13	WG1525849

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/10/20 10:45

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	08/14/2020 18:13	WG1525849
1,1,1-Trichloroethane	ND		0.500	1	08/14/2020 18:13	WG1525849
1,1,2-Trichloroethane	ND	<u>J4</u>	0.500	1	08/14/2020 18:13	WG1525849
Trichloroethene	ND		0.500	1	08/14/2020 18:13	WG1525849
Trichlorofluoromethane	ND		2.50	1	08/14/2020 18:13	WG1525849
1,2,3-Trichloropropane	ND		2.50	1	08/14/2020 18:13	WG1525849
1,2,4-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 18:13	WG1525849
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 18:13	WG1525849
1,3,5-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 18:13	WG1525849
Vinyl chloride	ND		0.500	1	08/14/2020 18:13	WG1525849
Xylenes, Total	ND	<u>J4</u>	1.50	1	08/14/2020 18:13	WG1525849
(S) Toluene-d8	112		80.0-120		08/14/2020 18:13	WG1525849
(S) Toluene-d8	109		80.0-120		08/19/2020 03:52	WG1528159
(S) 4-Bromofluorobenzene	102		77.0-126		08/14/2020 18:13	WG1525849
(S) 4-Bromofluorobenzene	101		77.0-126		08/19/2020 03:52	WG1528159
(S) 1,2-Dichloroethane-d4	106		70.0-130		08/14/2020 18:13	WG1525849
(S) 1,2-Dichloroethane-d4	117		70.0-130		08/19/2020 03:52	WG1528159

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	52.6	J3	25.0	1	08/19/2020 04:11	WG1528159
Acrolein	ND	J0 J3	50.0	1	08/14/2020 18:32	WG1525849
Acrylonitrile	ND		5.00	1	08/14/2020 18:32	WG1525849
Benzene	29.7		0.500	1	08/14/2020 18:32	WG1525849
Bromobenzene	ND	J4	0.500	1	08/14/2020 18:32	WG1525849
Bromodichloromethane	ND		0.500	1	08/14/2020 18:32	WG1525849
Bromoform	ND		0.500	1	08/14/2020 18:32	WG1525849
Bromomethane	ND		2.50	1	08/14/2020 18:32	WG1525849
n-Butylbenzene	ND		0.500	1	08/14/2020 18:32	WG1525849
sec-Butylbenzene	ND		0.500	1	08/14/2020 18:32	WG1525849
tert-Butylbenzene	ND		0.500	1	08/14/2020 18:32	WG1525849
Carbon disulfide	ND		0.500	1	08/14/2020 18:32	WG1525849
Carbon tetrachloride	ND		0.500	1	08/14/2020 18:32	WG1525849
Chlorobenzene	ND	J4	0.500	1	08/14/2020 18:32	WG1525849
Chlorodibromomethane	ND	J4	0.500	1	08/14/2020 18:32	WG1525849
Chloroethane	ND		2.50	1	08/14/2020 18:32	WG1525849
Chloroform	6.89		0.500	1	08/14/2020 18:32	WG1525849
Chloromethane	ND		1.25	1	08/14/2020 18:32	WG1525849
2-Chlorotoluene	ND		0.500	1	08/14/2020 18:32	WG1525849
4-Chlorotoluene	ND	J4	0.500	1	08/14/2020 18:32	WG1525849
1,2-Dibromo-3-Chloropropane	ND		2.50	1	08/14/2020 18:32	WG1525849
1,2-Dibromoethane	ND	J4	0.500	1	08/14/2020 18:32	WG1525849
Dibromomethane	ND	J4	0.500	1	08/14/2020 18:32	WG1525849
1,2-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 18:32	WG1525849
1,3-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 18:32	WG1525849
1,4-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 18:32	WG1525849
Dichlorodifluoromethane	ND		2.50	1	08/14/2020 18:32	WG1525849
1,1-Dichloroethane	ND		0.500	1	08/14/2020 18:32	WG1525849
1,2-Dichloroethane	ND		0.500	1	08/14/2020 18:32	WG1525849
1,1-Dichloroethene	ND		0.500	1	08/14/2020 18:32	WG1525849
cis-1,2-Dichloroethene	2.44		0.500	1	08/14/2020 18:32	WG1525849
trans-1,2-Dichloroethene	ND		0.500	1	08/14/2020 18:32	WG1525849
1,2-Dichloropropane	ND		0.500	1	08/14/2020 18:32	WG1525849
1,1-Dichloropropene	ND		0.500	1	08/14/2020 18:32	WG1525849
1,3-Dichloropropane	ND	J4	1.00	1	08/14/2020 18:32	WG1525849
cis-1,3-Dichloropropene	ND		0.500	1	08/14/2020 18:32	WG1525849
trans-1,3-Dichloropropene	ND	J4	0.500	1	08/14/2020 18:32	WG1525849
2,2-Dichloropropane	ND		0.500	1	08/14/2020 18:32	WG1525849
Di-isopropyl ether	ND		0.500	1	08/14/2020 18:32	WG1525849
Ethylbenzene	ND		0.500	1	08/19/2020 04:11	WG1528159
Hexachloro-1,3-butadiene	ND		1.00	1	08/14/2020 18:32	WG1525849
Isopropylbenzene	ND	J4	0.500	1	08/14/2020 18:32	WG1525849
p-Isopropyltoluene	ND		0.500	1	08/14/2020 18:32	WG1525849
2-Butanone (MEK)	ND		5.00	1	08/14/2020 18:32	WG1525849
Methylene Chloride	ND		2.50	1	08/14/2020 18:32	WG1525849
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	08/14/2020 18:32	WG1525849
Methyl tert-butyl ether	ND		0.500	1	08/14/2020 18:32	WG1525849
Naphthalene	ND		2.50	1	08/14/2020 18:32	WG1525849
n-Propylbenzene	ND		0.500	1	08/14/2020 18:32	WG1525849
Styrene	ND		0.500	1	08/19/2020 04:11	WG1528159
1,1,1,2-Tetrachloroethane	ND	J4	0.500	1	08/14/2020 18:32	WG1525849
1,1,2,2-Tetrachloroethane	ND		0.500	1	08/14/2020 18:32	WG1525849
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	08/14/2020 18:32	WG1525849
Tetrachloroethene	ND		0.500	1	08/14/2020 18:32	WG1525849
Toluene	2.45		0.500	1	08/19/2020 04:11	WG1528159
1,2,3-Trichlorobenzene	ND		0.500	1	08/14/2020 18:32	WG1525849

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/10/20 11:00

L1249774

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	08/14/2020 18:32	WG1525849
1,1,1-Trichloroethane	ND		0.500	1	08/14/2020 18:32	WG1525849
1,1,2-Trichloroethane	ND	<u>J4</u>	0.500	1	08/14/2020 18:32	WG1525849
Trichloroethene	14.2		0.500	1	08/14/2020 18:32	WG1525849
Trichlorofluoromethane	ND		2.50	1	08/14/2020 18:32	WG1525849
1,2,3-Trichloropropane	ND		2.50	1	08/14/2020 18:32	WG1525849
1,2,4-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 18:32	WG1525849
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 18:32	WG1525849
1,3,5-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 18:32	WG1525849
Vinyl chloride	ND		0.500	1	08/14/2020 18:32	WG1525849
Xylenes, Total	ND		1.50	1	08/19/2020 04:11	WG1528159
(S) Toluene-d8	109		80.0-120		08/14/2020 18:32	WG1525849
(S) Toluene-d8	111		80.0-120		08/19/2020 04:11	WG1528159
(S) 4-Bromofluorobenzene	99.5		77.0-126		08/14/2020 18:32	WG1525849
(S) 4-Bromofluorobenzene	96.3		77.0-126		08/19/2020 04:11	WG1528159
(S) 1,2-Dichloroethane-d4	103		70.0-130		08/14/2020 18:32	WG1525849
(S) 1,2-Dichloroethane-d4	115		70.0-130		08/19/2020 04:11	WG1528159

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	74.2	J3	25.0	1	08/19/2020 04:29	WG1528159
Acrolein	ND	J0 J3	50.0	1	08/14/2020 18:51	WG1525849
Acrylonitrile	ND		5.00	1	08/14/2020 18:51	WG1525849
Benzene	18.1		0.500	1	08/14/2020 18:51	WG1525849
Bromobenzene	ND	J4	0.500	1	08/14/2020 18:51	WG1525849
Bromodichloromethane	ND		0.500	1	08/14/2020 18:51	WG1525849
Bromoform	ND		0.500	1	08/14/2020 18:51	WG1525849
Bromomethane	ND		2.50	1	08/14/2020 18:51	WG1525849
n-Butylbenzene	ND		0.500	1	08/14/2020 18:51	WG1525849
sec-Butylbenzene	ND		0.500	1	08/14/2020 18:51	WG1525849
tert-Butylbenzene	ND		0.500	1	08/14/2020 18:51	WG1525849
Carbon disulfide	ND		0.500	1	08/14/2020 18:51	WG1525849
Carbon tetrachloride	ND		0.500	1	08/14/2020 18:51	WG1525849
Chlorobenzene	ND	J4	0.500	1	08/14/2020 18:51	WG1525849
Chlorodibromomethane	ND	J4	0.500	1	08/14/2020 18:51	WG1525849
Chloroethane	ND		2.50	1	08/14/2020 18:51	WG1525849
Chloroform	5.20		0.500	1	08/14/2020 18:51	WG1525849
Chloromethane	ND		1.25	1	08/14/2020 18:51	WG1525849
2-Chlorotoluene	ND		0.500	1	08/14/2020 18:51	WG1525849
4-Chlorotoluene	ND	J4	0.500	1	08/14/2020 18:51	WG1525849
1,2-Dibromo-3-Chloropropane	ND		2.50	1	08/14/2020 18:51	WG1525849
1,2-Dibromoethane	ND	J4	0.500	1	08/14/2020 18:51	WG1525849
Dibromomethane	ND	J4	0.500	1	08/14/2020 18:51	WG1525849
1,2-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 18:51	WG1525849
1,3-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 18:51	WG1525849
1,4-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 18:51	WG1525849
Dichlorodifluoromethane	ND		2.50	1	08/14/2020 18:51	WG1525849
1,1-Dichloroethane	ND		0.500	1	08/14/2020 18:51	WG1525849
1,2-Dichloroethane	ND		0.500	1	08/14/2020 18:51	WG1525849
1,1-Dichloroethene	ND		0.500	1	08/14/2020 18:51	WG1525849
cis-1,2-Dichloroethene	1.06		0.500	1	08/14/2020 18:51	WG1525849
trans-1,2-Dichloroethene	ND		0.500	1	08/14/2020 18:51	WG1525849
1,2-Dichloropropane	ND		0.500	1	08/14/2020 18:51	WG1525849
1,1-Dichloropropene	ND		0.500	1	08/14/2020 18:51	WG1525849
1,3-Dichloropropane	ND	J4	1.00	1	08/14/2020 18:51	WG1525849
cis-1,3-Dichloropropene	ND		0.500	1	08/14/2020 18:51	WG1525849
trans-1,3-Dichloropropene	ND	J4	0.500	1	08/14/2020 18:51	WG1525849
2,2-Dichloropropane	ND		0.500	1	08/14/2020 18:51	WG1525849
Di-isopropyl ether	ND		0.500	1	08/14/2020 18:51	WG1525849
Ethylbenzene	ND		0.500	1	08/19/2020 04:29	WG1528159
Hexachloro-1,3-butadiene	ND		1.00	1	08/14/2020 18:51	WG1525849
Isopropylbenzene	ND	J4	0.500	1	08/14/2020 18:51	WG1525849
p-Isopropyltoluene	ND		0.500	1	08/14/2020 18:51	WG1525849
2-Butanone (MEK)	ND		5.00	1	08/14/2020 18:51	WG1525849
Methylene Chloride	ND		2.50	1	08/14/2020 18:51	WG1525849
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	08/14/2020 18:51	WG1525849
Methyl tert-butyl ether	ND		0.500	1	08/14/2020 18:51	WG1525849
Naphthalene	ND		2.50	1	08/14/2020 18:51	WG1525849
n-Propylbenzene	ND		0.500	1	08/14/2020 18:51	WG1525849
Styrene	ND		0.500	1	08/19/2020 04:29	WG1528159
1,1,1,2-Tetrachloroethane	ND	J4	0.500	1	08/14/2020 18:51	WG1525849
1,1,2,2-Tetrachloroethane	ND		0.500	1	08/14/2020 18:51	WG1525849
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	08/14/2020 18:51	WG1525849
Tetrachloroethene	ND		0.500	1	08/14/2020 18:51	WG1525849
Toluene	1.76		0.500	1	08/19/2020 04:29	WG1528159
1,2,3-Trichlorobenzene	ND		0.500	1	08/14/2020 18:51	WG1525849

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	08/14/2020 18:51	WG1525849
1,1,1-Trichloroethane	ND		0.500	1	08/14/2020 18:51	WG1525849
1,1,2-Trichloroethane	ND	J4	0.500	1	08/14/2020 18:51	WG1525849
Trichloroethene	7.20		0.500	1	08/14/2020 18:51	WG1525849
Trichlorofluoromethane	ND		2.50	1	08/14/2020 18:51	WG1525849
1,2,3-Trichloropropane	ND		2.50	1	08/14/2020 18:51	WG1525849
1,2,4-Trimethylbenzene	ND	J4	0.500	1	08/14/2020 18:51	WG1525849
1,2,3-Trimethylbenzene	ND	J4	0.500	1	08/14/2020 18:51	WG1525849
1,3,5-Trimethylbenzene	ND	J4	0.500	1	08/14/2020 18:51	WG1525849
Vinyl chloride	ND		0.500	1	08/14/2020 18:51	WG1525849
Xylenes, Total	ND		1.50	1	08/19/2020 04:29	WG1528159
(S) Toluene-d8	108		80.0-120		08/14/2020 18:51	WG1525849
(S) Toluene-d8	109		80.0-120		08/19/2020 04:29	WG1528159
(S) 4-Bromofluorobenzene	101		77.0-126		08/14/2020 18:51	WG1525849
(S) 4-Bromofluorobenzene	97.9		77.0-126		08/19/2020 04:29	WG1528159
(S) 1,2-Dichloroethane-d4	106		70.0-130		08/14/2020 18:51	WG1525849
(S) 1,2-Dichloroethane-d4	118		70.0-130		08/19/2020 04:29	WG1528159

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	87.6	J3	25.0	1	08/19/2020 04:48	WG1528159
Acrolein	ND	J0 J3	50.0	1	08/14/2020 19:11	WG1525849
Acrylonitrile	ND		5.00	1	08/14/2020 19:11	WG1525849
Benzene	10.7		0.500	1	08/14/2020 19:11	WG1525849
Bromobenzene	ND	J4	0.500	1	08/14/2020 19:11	WG1525849
Bromodichloromethane	ND		0.500	1	08/14/2020 19:11	WG1525849
Bromoform	ND		0.500	1	08/14/2020 19:11	WG1525849
Bromomethane	ND		2.50	1	08/14/2020 19:11	WG1525849
n-Butylbenzene	ND		0.500	1	08/14/2020 19:11	WG1525849
sec-Butylbenzene	ND		0.500	1	08/14/2020 19:11	WG1525849
tert-Butylbenzene	ND		0.500	1	08/14/2020 19:11	WG1525849
Carbon disulfide	ND		0.500	1	08/14/2020 19:11	WG1525849
Carbon tetrachloride	ND		0.500	1	08/14/2020 19:11	WG1525849
Chlorobenzene	ND	J4	0.500	1	08/14/2020 19:11	WG1525849
Chlorodibromomethane	ND	J4	0.500	1	08/14/2020 19:11	WG1525849
Chloroethane	ND		2.50	1	08/14/2020 19:11	WG1525849
Chloroform	5.13		0.500	1	08/14/2020 19:11	WG1525849
Chloromethane	ND		1.25	1	08/14/2020 19:11	WG1525849
2-Chlorotoluene	ND		0.500	1	08/14/2020 19:11	WG1525849
4-Chlorotoluene	ND	J4	0.500	1	08/14/2020 19:11	WG1525849
1,2-Dibromo-3-Chloropropane	ND		2.50	1	08/14/2020 19:11	WG1525849
1,2-Dibromoethane	ND	J4	0.500	1	08/14/2020 19:11	WG1525849
Dibromomethane	ND	J4	0.500	1	08/14/2020 19:11	WG1525849
1,2-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 19:11	WG1525849
1,3-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 19:11	WG1525849
1,4-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 19:11	WG1525849
Dichlorodifluoromethane	ND		2.50	1	08/14/2020 19:11	WG1525849
1,1-Dichloroethane	ND		0.500	1	08/14/2020 19:11	WG1525849
1,2-Dichloroethane	ND		0.500	1	08/14/2020 19:11	WG1525849
1,1-Dichloroethene	ND		0.500	1	08/14/2020 19:11	WG1525849
cis-1,2-Dichloroethene	0.993		0.500	1	08/14/2020 19:11	WG1525849
trans-1,2-Dichloroethene	ND		0.500	1	08/14/2020 19:11	WG1525849
1,2-Dichloropropane	ND		0.500	1	08/14/2020 19:11	WG1525849
1,1-Dichloropropene	ND		0.500	1	08/14/2020 19:11	WG1525849
1,3-Dichloropropane	ND	J4	1.00	1	08/14/2020 19:11	WG1525849
cis-1,3-Dichloropropene	ND		0.500	1	08/14/2020 19:11	WG1525849
trans-1,3-Dichloropropene	ND	J4	0.500	1	08/14/2020 19:11	WG1525849
2,2-Dichloropropane	ND		0.500	1	08/14/2020 19:11	WG1525849
Di-isopropyl ether	ND		0.500	1	08/14/2020 19:11	WG1525849
Ethylbenzene	ND		0.500	1	08/19/2020 04:48	WG1528159
Hexachloro-1,3-butadiene	ND		1.00	1	08/14/2020 19:11	WG1525849
Isopropylbenzene	ND	J4	0.500	1	08/14/2020 19:11	WG1525849
p-Isopropyltoluene	ND		0.500	1	08/14/2020 19:11	WG1525849
2-Butanone (MEK)	ND		5.00	1	08/14/2020 19:11	WG1525849
Methylene Chloride	ND		2.50	1	08/14/2020 19:11	WG1525849
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	08/14/2020 19:11	WG1525849
Methyl tert-butyl ether	ND		0.500	1	08/14/2020 19:11	WG1525849
Naphthalene	ND		2.50	1	08/14/2020 19:11	WG1525849
n-Propylbenzene	ND		0.500	1	08/14/2020 19:11	WG1525849
Styrene	ND		0.500	1	08/19/2020 04:48	WG1528159
1,1,1,2-Tetrachloroethane	ND	J4	0.500	1	08/14/2020 19:11	WG1525849
1,1,2,2-Tetrachloroethane	ND		0.500	1	08/14/2020 19:11	WG1525849
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	08/14/2020 19:11	WG1525849
Tetrachloroethene	ND		0.500	1	08/14/2020 19:11	WG1525849
Toluene	1.17		0.500	1	08/19/2020 04:48	WG1528159
1,2,3-Trichlorobenzene	ND		0.500	1	08/14/2020 19:11	WG1525849

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	08/14/2020 19:11	WG1525849
1,1,1-Trichloroethane	ND		0.500	1	08/14/2020 19:11	WG1525849
1,1,2-Trichloroethane	ND	<u>J4</u>	0.500	1	08/14/2020 19:11	WG1525849
Trichloroethene	6.21		0.500	1	08/14/2020 19:11	WG1525849
Trichlorofluoromethane	ND		2.50	1	08/14/2020 19:11	WG1525849
1,2,3-Trichloropropane	ND		2.50	1	08/14/2020 19:11	WG1525849
1,2,4-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 19:11	WG1525849
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 19:11	WG1525849
1,3,5-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 19:11	WG1525849
Vinyl chloride	ND		0.500	1	08/14/2020 19:11	WG1525849
Xylenes, Total	ND		1.50	1	08/19/2020 04:48	WG1528159
(S) Toluene-d8	109		80.0-120		08/14/2020 19:11	WG1525849
(S) Toluene-d8	110		80.0-120		08/19/2020 04:48	WG1528159
(S) 4-Bromofluorobenzene	101		77.0-126		08/14/2020 19:11	WG1525849
(S) 4-Bromofluorobenzene	98.3		77.0-126		08/19/2020 04:48	WG1528159
(S) 1,2-Dichloroethane-d4	103		70.0-130		08/14/2020 19:11	WG1525849
(S) 1,2-Dichloroethane-d4	118		70.0-130		08/19/2020 04:48	WG1528159

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	84.5	J3	25.0	1	08/19/2020 05:07	WG1528159
Acrolein	ND	J0 J3	50.0	1	08/14/2020 19:30	WG1525849
Acrylonitrile	ND		5.00	1	08/14/2020 19:30	WG1525849
Benzene	ND		0.500	1	08/14/2020 19:30	WG1525849
Bromobenzene	ND	J4	0.500	1	08/14/2020 19:30	WG1525849
Bromodichloromethane	ND		0.500	1	08/14/2020 19:30	WG1525849
Bromoform	ND		0.500	1	08/14/2020 19:30	WG1525849
Bromomethane	ND		2.50	1	08/14/2020 19:30	WG1525849
n-Butylbenzene	ND		0.500	1	08/14/2020 19:30	WG1525849
sec-Butylbenzene	ND		0.500	1	08/14/2020 19:30	WG1525849
tert-Butylbenzene	ND		0.500	1	08/14/2020 19:30	WG1525849
Carbon disulfide	ND		0.500	1	08/14/2020 19:30	WG1525849
Carbon tetrachloride	ND		0.500	1	08/14/2020 19:30	WG1525849
Chlorobenzene	ND	J4	0.500	1	08/14/2020 19:30	WG1525849
Chlorodibromomethane	ND	J4	0.500	1	08/14/2020 19:30	WG1525849
Chloroethane	ND		2.50	1	08/14/2020 19:30	WG1525849
Chloroform	1.15		0.500	1	08/14/2020 19:30	WG1525849
Chloromethane	ND		1.25	1	08/14/2020 19:30	WG1525849
2-Chlorotoluene	ND		0.500	1	08/14/2020 19:30	WG1525849
4-Chlorotoluene	ND	J4	0.500	1	08/14/2020 19:30	WG1525849
1,2-Dibromo-3-Chloropropane	ND		2.50	1	08/14/2020 19:30	WG1525849
1,2-Dibromoethane	ND	J4	0.500	1	08/14/2020 19:30	WG1525849
Dibromomethane	ND	J4	0.500	1	08/14/2020 19:30	WG1525849
1,2-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 19:30	WG1525849
1,3-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 19:30	WG1525849
1,4-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 19:30	WG1525849
Dichlorodifluoromethane	ND		2.50	1	08/14/2020 19:30	WG1525849
1,1-Dichloroethane	ND		0.500	1	08/14/2020 19:30	WG1525849
1,2-Dichloroethane	ND		0.500	1	08/14/2020 19:30	WG1525849
1,1-Dichloroethene	ND		0.500	1	08/14/2020 19:30	WG1525849
cis-1,2-Dichloroethene	3.41		0.500	1	08/14/2020 19:30	WG1525849
trans-1,2-Dichloroethene	ND		0.500	1	08/14/2020 19:30	WG1525849
1,2-Dichloropropane	ND		0.500	1	08/14/2020 19:30	WG1525849
1,1-Dichloropropene	ND		0.500	1	08/14/2020 19:30	WG1525849
1,3-Dichloropropane	ND	J4	1.00	1	08/14/2020 19:30	WG1525849
cis-1,3-Dichloropropene	ND		0.500	1	08/14/2020 19:30	WG1525849
trans-1,3-Dichloropropene	ND	J4	0.500	1	08/14/2020 19:30	WG1525849
2,2-Dichloropropane	ND		0.500	1	08/14/2020 19:30	WG1525849
Di-isopropyl ether	ND		0.500	1	08/14/2020 19:30	WG1525849
Ethylbenzene	ND	J4	0.500	1	08/14/2020 19:30	WG1525849
Hexachloro-1,3-butadiene	ND		1.00	1	08/14/2020 19:30	WG1525849
Isopropylbenzene	ND	J4	0.500	1	08/14/2020 19:30	WG1525849
p-Isopropyltoluene	ND		0.500	1	08/14/2020 19:30	WG1525849
2-Butanone (MEK)	ND		5.00	1	08/14/2020 19:30	WG1525849
Methylene Chloride	ND		2.50	1	08/14/2020 19:30	WG1525849
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	08/14/2020 19:30	WG1525849
Methyl tert-butyl ether	ND		0.500	1	08/14/2020 19:30	WG1525849
Naphthalene	ND		2.50	1	08/14/2020 19:30	WG1525849
n-Propylbenzene	ND		0.500	1	08/14/2020 19:30	WG1525849
Styrene	ND	J4	0.500	1	08/14/2020 19:30	WG1525849
1,1,1,2-Tetrachloroethane	ND	J4	0.500	1	08/14/2020 19:30	WG1525849
1,1,2,2-Tetrachloroethane	ND		0.500	1	08/14/2020 19:30	WG1525849
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	08/14/2020 19:30	WG1525849
Tetrachloroethene	0.959		0.500	1	08/14/2020 19:30	WG1525849
Toluene	ND	J4	0.500	1	08/14/2020 19:30	WG1525849
1,2,3-Trichlorobenzene	ND		0.500	1	08/14/2020 19:30	WG1525849

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	08/14/2020 19:30	WG1525849
1,1,1-Trichloroethane	ND		0.500	1	08/14/2020 19:30	WG1525849
1,1,2-Trichloroethane	ND	<u>J4</u>	0.500	1	08/14/2020 19:30	WG1525849
Trichloroethene	19.3		0.500	1	08/14/2020 19:30	WG1525849
Trichlorofluoromethane	ND		2.50	1	08/14/2020 19:30	WG1525849
1,2,3-Trichloropropane	ND		2.50	1	08/14/2020 19:30	WG1525849
1,2,4-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 19:30	WG1525849
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 19:30	WG1525849
1,3,5-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 19:30	WG1525849
Vinyl chloride	ND		0.500	1	08/14/2020 19:30	WG1525849
Xylenes, Total	ND	<u>J4</u>	1.50	1	08/14/2020 19:30	WG1525849
(S) Toluene-d8	112		80.0-120		08/14/2020 19:30	WG1525849
(S) Toluene-d8	113		80.0-120		08/19/2020 05:07	WG1528159
(S) 4-Bromofluorobenzene	98.8		77.0-126		08/14/2020 19:30	WG1525849
(S) 4-Bromofluorobenzene	100		77.0-126		08/19/2020 05:07	WG1528159
(S) 1,2-Dichloroethane-d4	104		70.0-130		08/14/2020 19:30	WG1525849
(S) 1,2-Dichloroethane-d4	119		70.0-130		08/19/2020 05:07	WG1528159

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	149	<u>J3</u>	25.0	1	08/19/2020 05:26	WG1528159
Acrolein	ND	<u>J0 J3</u>	50.0	1	08/14/2020 19:49	WG1525849
Acrylonitrile	ND		5.00	1	08/14/2020 19:49	WG1525849
Benzene	ND		0.500	1	08/14/2020 19:49	WG1525849
Bromobenzene	ND	<u>J4</u>	0.500	1	08/14/2020 19:49	WG1525849
Bromodichloromethane	ND		0.500	1	08/14/2020 19:49	WG1525849
Bromoform	ND		0.500	1	08/14/2020 19:49	WG1525849
Bromomethane	ND		2.50	1	08/14/2020 19:49	WG1525849
n-Butylbenzene	ND		0.500	1	08/14/2020 19:49	WG1525849
sec-Butylbenzene	ND		0.500	1	08/14/2020 19:49	WG1525849
tert-Butylbenzene	ND		0.500	1	08/14/2020 19:49	WG1525849
Carbon disulfide	ND		0.500	1	08/14/2020 19:49	WG1525849
Carbon tetrachloride	ND		0.500	1	08/14/2020 19:49	WG1525849
Chlorobenzene	ND	<u>J4</u>	0.500	1	08/14/2020 19:49	WG1525849
Chlorodibromomethane	ND	<u>J4</u>	0.500	1	08/14/2020 19:49	WG1525849
Chloroethane	ND		2.50	1	08/14/2020 19:49	WG1525849
Chloroform	1.23		0.500	1	08/14/2020 19:49	WG1525849
Chloromethane	ND		1.25	1	08/14/2020 19:49	WG1525849
2-Chlorotoluene	ND		0.500	1	08/14/2020 19:49	WG1525849
4-Chlorotoluene	ND	<u>J4</u>	0.500	1	08/14/2020 19:49	WG1525849
1,2-Dibromo-3-Chloropropane	ND		2.50	1	08/14/2020 19:49	WG1525849
1,2-Dibromoethane	ND	<u>J4</u>	0.500	1	08/14/2020 19:49	WG1525849
Dibromomethane	ND	<u>J4</u>	0.500	1	08/14/2020 19:49	WG1525849
1,2-Dichlorobenzene	ND	<u>J4</u>	0.500	1	08/14/2020 19:49	WG1525849
1,3-Dichlorobenzene	ND	<u>J4</u>	0.500	1	08/14/2020 19:49	WG1525849
1,4-Dichlorobenzene	ND	<u>J4</u>	0.500	1	08/14/2020 19:49	WG1525849
Dichlorodifluoromethane	ND		2.50	1	08/14/2020 19:49	WG1525849
1,1-Dichloroethane	ND		0.500	1	08/14/2020 19:49	WG1525849
1,2-Dichloroethane	ND		0.500	1	08/14/2020 19:49	WG1525849
1,1-Dichloroethene	ND		0.500	1	08/14/2020 19:49	WG1525849
cis-1,2-Dichloroethene	3.19		0.500	1	08/14/2020 19:49	WG1525849
trans-1,2-Dichloroethene	ND		0.500	1	08/14/2020 19:49	WG1525849
1,2-Dichloropropane	ND		0.500	1	08/14/2020 19:49	WG1525849
1,1-Dichloropropene	ND		0.500	1	08/14/2020 19:49	WG1525849
1,3-Dichloropropane	ND	<u>J4</u>	1.00	1	08/14/2020 19:49	WG1525849
cis-1,3-Dichloropropene	ND		0.500	1	08/14/2020 19:49	WG1525849
trans-1,3-Dichloropropene	ND	<u>J4</u>	0.500	1	08/14/2020 19:49	WG1525849
2,2-Dichloropropane	ND		0.500	1	08/14/2020 19:49	WG1525849
Di-isopropyl ether	ND		0.500	1	08/14/2020 19:49	WG1525849
Ethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 19:49	WG1525849
Hexachloro-1,3-butadiene	ND		1.00	1	08/14/2020 19:49	WG1525849
Isopropylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 19:49	WG1525849
p-Isopropyltoluene	ND		0.500	1	08/14/2020 19:49	WG1525849
2-Butanone (MEK)	ND		5.00	1	08/14/2020 19:49	WG1525849
Methylene Chloride	ND		2.50	1	08/14/2020 19:49	WG1525849
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	08/14/2020 19:49	WG1525849
Methyl tert-butyl ether	ND		0.500	1	08/14/2020 19:49	WG1525849
Naphthalene	ND		2.50	1	08/14/2020 19:49	WG1525849
n-Propylbenzene	ND		0.500	1	08/14/2020 19:49	WG1525849
Styrene	ND	<u>J4</u>	0.500	1	08/14/2020 19:49	WG1525849
1,1,1,2-Tetrachloroethane	ND	<u>J4</u>	0.500	1	08/14/2020 19:49	WG1525849
1,1,2,2-Tetrachloroethane	ND		0.500	1	08/14/2020 19:49	WG1525849
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	08/14/2020 19:49	WG1525849
Tetrachloroethene	0.696		0.500	1	08/14/2020 19:49	WG1525849
Toluene	ND	<u>J4</u>	0.500	1	08/14/2020 19:49	WG1525849
1,2,3-Trichlorobenzene	ND		0.500	1	08/14/2020 19:49	WG1525849

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	08/14/2020 19:49	WG1525849
1,1,1-Trichloroethane	ND		0.500	1	08/14/2020 19:49	WG1525849
1,1,2-Trichloroethane	ND	<u>J4</u>	0.500	1	08/14/2020 19:49	WG1525849
Trichloroethene	18.5		0.500	1	08/14/2020 19:49	WG1525849
Trichlorofluoromethane	ND		2.50	1	08/14/2020 19:49	WG1525849
1,2,3-Trichloropropane	ND		2.50	1	08/14/2020 19:49	WG1525849
1,2,4-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 19:49	WG1525849
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 19:49	WG1525849
1,3,5-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 19:49	WG1525849
Vinyl chloride	ND		0.500	1	08/14/2020 19:49	WG1525849
Xylenes, Total	ND	<u>J4</u>	1.50	1	08/14/2020 19:49	WG1525849
(S) Toluene-d8	108		80.0-120		08/14/2020 19:49	WG1525849
(S) Toluene-d8	109		80.0-120		08/19/2020 05:26	WG1528159
(S) 4-Bromofluorobenzene	102		77.0-126		08/14/2020 19:49	WG1525849
(S) 4-Bromofluorobenzene	102		77.0-126		08/19/2020 05:26	WG1528159
(S) 1,2-Dichloroethane-d4	104		70.0-130		08/14/2020 19:49	WG1525849
(S) 1,2-Dichloroethane-d4	119		70.0-130		08/19/2020 05:26	WG1528159

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	51.2	J3	25.0	1	08/19/2020 05:45	WG1528159
Acrolein	ND	J0 J3	50.0	1	08/14/2020 20:08	WG1525849
Acrylonitrile	ND		5.00	1	08/14/2020 20:08	WG1525849
Benzene	ND		0.500	1	08/14/2020 20:08	WG1525849
Bromobenzene	ND	J4	0.500	1	08/14/2020 20:08	WG1525849
Bromodichloromethane	ND		0.500	1	08/14/2020 20:08	WG1525849
Bromoform	ND		0.500	1	08/14/2020 20:08	WG1525849
Bromomethane	ND		2.50	1	08/14/2020 20:08	WG1525849
n-Butylbenzene	ND		0.500	1	08/14/2020 20:08	WG1525849
sec-Butylbenzene	ND		0.500	1	08/14/2020 20:08	WG1525849
tert-Butylbenzene	ND		0.500	1	08/14/2020 20:08	WG1525849
Carbon disulfide	ND		0.500	1	08/14/2020 20:08	WG1525849
Carbon tetrachloride	ND		0.500	1	08/14/2020 20:08	WG1525849
Chlorobenzene	ND	J4	0.500	1	08/14/2020 20:08	WG1525849
Chlorodibromomethane	ND	J4	0.500	1	08/14/2020 20:08	WG1525849
Chloroethane	ND		2.50	1	08/14/2020 20:08	WG1525849
Chloroform	1.21		0.500	1	08/14/2020 20:08	WG1525849
Chloromethane	ND		1.25	1	08/14/2020 20:08	WG1525849
2-Chlorotoluene	ND		0.500	1	08/14/2020 20:08	WG1525849
4-Chlorotoluene	ND	J4	0.500	1	08/14/2020 20:08	WG1525849
1,2-Dibromo-3-Chloropropane	ND		2.50	1	08/14/2020 20:08	WG1525849
1,2-Dibromoethane	ND	J4	0.500	1	08/14/2020 20:08	WG1525849
Dibromomethane	ND	J4	0.500	1	08/14/2020 20:08	WG1525849
1,2-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 20:08	WG1525849
1,3-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 20:08	WG1525849
1,4-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 20:08	WG1525849
Dichlorodifluoromethane	ND		2.50	1	08/14/2020 20:08	WG1525849
1,1-Dichloroethane	ND		0.500	1	08/14/2020 20:08	WG1525849
1,2-Dichloroethane	ND		0.500	1	08/14/2020 20:08	WG1525849
1,1-Dichloroethene	ND		0.500	1	08/14/2020 20:08	WG1525849
cis-1,2-Dichloroethene	2.94		0.500	1	08/14/2020 20:08	WG1525849
trans-1,2-Dichloroethene	ND		0.500	1	08/14/2020 20:08	WG1525849
1,2-Dichloropropane	ND		0.500	1	08/14/2020 20:08	WG1525849
1,1-Dichloropropene	ND		0.500	1	08/14/2020 20:08	WG1525849
1,3-Dichloropropane	ND	J4	1.00	1	08/14/2020 20:08	WG1525849
cis-1,3-Dichloropropene	ND		0.500	1	08/14/2020 20:08	WG1525849
trans-1,3-Dichloropropene	ND	J4	0.500	1	08/14/2020 20:08	WG1525849
2,2-Dichloropropane	ND		0.500	1	08/14/2020 20:08	WG1525849
Di-isopropyl ether	ND		0.500	1	08/14/2020 20:08	WG1525849
Ethylbenzene	ND	J4	0.500	1	08/14/2020 20:08	WG1525849
Hexachloro-1,3-butadiene	ND		1.00	1	08/14/2020 20:08	WG1525849
Isopropylbenzene	ND	J4	0.500	1	08/14/2020 20:08	WG1525849
p-Isopropyltoluene	ND		0.500	1	08/14/2020 20:08	WG1525849
2-Butanone (MEK)	ND		5.00	1	08/14/2020 20:08	WG1525849
Methylene Chloride	ND		2.50	1	08/14/2020 20:08	WG1525849
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	08/14/2020 20:08	WG1525849
Methyl tert-butyl ether	ND		0.500	1	08/14/2020 20:08	WG1525849
Naphthalene	ND		2.50	1	08/14/2020 20:08	WG1525849
n-Propylbenzene	ND		0.500	1	08/14/2020 20:08	WG1525849
Styrene	ND	J4	0.500	1	08/14/2020 20:08	WG1525849
1,1,1,2-Tetrachloroethane	ND	J4	0.500	1	08/14/2020 20:08	WG1525849
1,1,2,2-Tetrachloroethane	ND		0.500	1	08/14/2020 20:08	WG1525849
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	08/14/2020 20:08	WG1525849
Tetrachloroethene	0.703		0.500	1	08/14/2020 20:08	WG1525849
Toluene	ND	J4	0.500	1	08/14/2020 20:08	WG1525849
1,2,3-Trichlorobenzene	ND		0.500	1	08/14/2020 20:08	WG1525849

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

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9 Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	08/14/2020 20:08	WG1525849
1,1,1-Trichloroethane	ND		0.500	1	08/14/2020 20:08	WG1525849
1,1,2-Trichloroethane	ND	<u>J4</u>	0.500	1	08/14/2020 20:08	WG1525849
Trichloroethene	18.4		0.500	1	08/14/2020 20:08	WG1525849
Trichlorofluoromethane	ND		2.50	1	08/14/2020 20:08	WG1525849
1,2,3-Trichloropropane	ND		2.50	1	08/14/2020 20:08	WG1525849
1,2,4-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 20:08	WG1525849
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 20:08	WG1525849
1,3,5-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 20:08	WG1525849
Vinyl chloride	ND		0.500	1	08/14/2020 20:08	WG1525849
Xylenes, Total	ND	<u>J4</u>	1.50	1	08/14/2020 20:08	WG1525849
(S) Toluene-d8	110		80.0-120		08/14/2020 20:08	WG1525849
(S) Toluene-d8	106		80.0-120		08/19/2020 05:45	WG1528159
(S) 4-Bromofluorobenzene	99.4		77.0-126		08/14/2020 20:08	WG1525849
(S) 4-Bromofluorobenzene	101		77.0-126		08/19/2020 05:45	WG1528159
(S) 1,2-Dichloroethane-d4	104		70.0-130		08/14/2020 20:08	WG1525849
(S) 1,2-Dichloroethane-d4	118		70.0-130		08/19/2020 05:45	WG1528159

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J3 J4	25.0	1	08/14/2020 14:01	WG1525849
Acrolein	ND	J0 J3	50.0	1	08/14/2020 14:01	WG1525849
Acrylonitrile	ND		5.00	1	08/14/2020 14:01	WG1525849
Benzene	ND		0.500	1	08/14/2020 14:01	WG1525849
Bromobenzene	ND	J4	0.500	1	08/14/2020 14:01	WG1525849
Bromodichloromethane	ND		0.500	1	08/14/2020 14:01	WG1525849
Bromoform	ND		0.500	1	08/14/2020 14:01	WG1525849
Bromomethane	ND		2.50	1	08/14/2020 14:01	WG1525849
n-Butylbenzene	ND		0.500	1	08/14/2020 14:01	WG1525849
sec-Butylbenzene	ND		0.500	1	08/14/2020 14:01	WG1525849
tert-Butylbenzene	ND		0.500	1	08/14/2020 14:01	WG1525849
Carbon disulfide	ND		0.500	1	08/14/2020 14:01	WG1525849
Carbon tetrachloride	ND		0.500	1	08/14/2020 14:01	WG1525849
Chlorobenzene	ND	J4	0.500	1	08/14/2020 14:01	WG1525849
Chlorodibromomethane	ND	J4	0.500	1	08/14/2020 14:01	WG1525849
Chloroethane	ND		2.50	1	08/14/2020 14:01	WG1525849
Chloroform	ND		0.500	1	08/14/2020 14:01	WG1525849
Chloromethane	ND		1.25	1	08/14/2020 14:01	WG1525849
2-Chlorotoluene	ND		0.500	1	08/14/2020 14:01	WG1525849
4-Chlorotoluene	ND	J4	0.500	1	08/14/2020 14:01	WG1525849
1,2-Dibromo-3-Chloropropane	ND		2.50	1	08/14/2020 14:01	WG1525849
1,2-Dibromoethane	ND	J4	0.500	1	08/14/2020 14:01	WG1525849
Dibromomethane	ND	J4	0.500	1	08/14/2020 14:01	WG1525849
1,2-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 14:01	WG1525849
1,3-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 14:01	WG1525849
1,4-Dichlorobenzene	ND	J4	0.500	1	08/14/2020 14:01	WG1525849
Dichlorodifluoromethane	ND		2.50	1	08/14/2020 14:01	WG1525849
1,1-Dichloroethane	ND		0.500	1	08/14/2020 14:01	WG1525849
1,2-Dichloroethane	ND		0.500	1	08/14/2020 14:01	WG1525849
1,1-Dichloroethene	ND		0.500	1	08/14/2020 14:01	WG1525849
cis-1,2-Dichloroethene	ND		0.500	1	08/14/2020 14:01	WG1525849
trans-1,2-Dichloroethene	ND		0.500	1	08/14/2020 14:01	WG1525849
1,2-Dichloropropane	ND		0.500	1	08/14/2020 14:01	WG1525849
1,1-Dichloropropene	ND		0.500	1	08/14/2020 14:01	WG1525849
1,3-Dichloropropane	ND	J4	1.00	1	08/14/2020 14:01	WG1525849
cis-1,3-Dichloropropene	ND		0.500	1	08/14/2020 14:01	WG1525849
trans-1,3-Dichloropropene	ND	J4	0.500	1	08/14/2020 14:01	WG1525849
2,2-Dichloropropane	ND		0.500	1	08/14/2020 14:01	WG1525849
Di-isopropyl ether	ND		0.500	1	08/14/2020 14:01	WG1525849
Ethylbenzene	ND	J4	0.500	1	08/14/2020 14:01	WG1525849
Hexachloro-1,3-butadiene	ND		1.00	1	08/14/2020 14:01	WG1525849
Isopropylbenzene	ND	J4	0.500	1	08/14/2020 14:01	WG1525849
p-Isopropyltoluene	ND		0.500	1	08/14/2020 14:01	WG1525849
2-Butanone (MEK)	ND		5.00	1	08/14/2020 14:01	WG1525849
Methylene Chloride	ND		2.50	1	08/14/2020 14:01	WG1525849
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	08/14/2020 14:01	WG1525849
Methyl tert-butyl ether	ND		0.500	1	08/14/2020 14:01	WG1525849
Naphthalene	ND		2.50	1	08/14/2020 14:01	WG1525849
n-Propylbenzene	ND		0.500	1	08/14/2020 14:01	WG1525849
Styrene	ND	J4	0.500	1	08/14/2020 14:01	WG1525849
1,1,1,2-Tetrachloroethane	ND	J4	0.500	1	08/14/2020 14:01	WG1525849
1,1,2,2-Tetrachloroethane	ND		0.500	1	08/14/2020 14:01	WG1525849
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	08/14/2020 14:01	WG1525849
Tetrachloroethene	ND		0.500	1	08/14/2020 14:01	WG1525849
Toluene	ND	J4	0.500	1	08/14/2020 14:01	WG1525849
1,2,3-Trichlorobenzene	ND		0.500	1	08/14/2020 14:01	WG1525849

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	08/14/2020 14:01	WG1525849
1,1,1-Trichloroethane	ND		0.500	1	08/14/2020 14:01	WG1525849
1,1,2-Trichloroethane	ND	<u>J4</u>	0.500	1	08/14/2020 14:01	WG1525849
Trichloroethene	ND		0.500	1	08/14/2020 14:01	WG1525849
Trichlorofluoromethane	ND		2.50	1	08/14/2020 14:01	WG1525849
1,2,3-Trichloropropane	ND		2.50	1	08/14/2020 14:01	WG1525849
1,2,4-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 14:01	WG1525849
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 14:01	WG1525849
1,3,5-Trimethylbenzene	ND	<u>J4</u>	0.500	1	08/14/2020 14:01	WG1525849
Vinyl chloride	ND		0.500	1	08/14/2020 14:01	WG1525849
Xylenes, Total	ND	<u>J4</u>	1.50	1	08/14/2020 14:01	WG1525849
(S) Toluene-d8	111		80.0-120		08/14/2020 14:01	WG1525849
(S) 4-Bromofluorobenzene	102		77.0-126		08/14/2020 14:01	WG1525849
(S) 1,2-Dichloroethane-d4	99.9		70.0-130		08/14/2020 14:01	WG1525849

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Method Blank (MB)

(MB) R3561187-3 08/14/20 13:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500
Ethylbenzene	U		0.137	0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3561187-3 08/14/20 13:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.337	1.00
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	0.500
1,2,3-Trimethylbenzene	U		0.104	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	109			80.0-120
(S) 4-Bromofluorobenzene	100			77.0-126
(S) 1,2-Dichloroethane-d4	99.2			70.0-130

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3561187-1 08/14/20 12:44 • (LCSD) R3561187-2 08/14/20 13:03

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	25.7	46.0	103	184	19.0-160		J3 J4	56.6	27
Acrolein	25.0	4.83	6.98	19.3	27.9	10.0-160		J3	36.4	26
Acrylonitrile	25.0	26.5	29.5	106	118	55.0-149			10.7	20



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

(LCS) R3561187-1 08/14/20 12:44 • (LCSD) R3561187-2 08/14/20 13:03

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	5.56	5.67	111	113	70.0-123			1.96	20
Bromobenzene	5.00	6.14	5.98	123	120	73.0-121	J4		2.64	20
Bromodichloromethane	5.00	5.47	5.46	109	109	75.0-120			0.183	20
Bromoform	5.00	5.61	5.99	112	120	68.0-132			6.55	20
Bromomethane	5.00	4.87	5.00	97.4	100	10.0-160			2.63	25
n-Butylbenzene	5.00	5.75	6.16	115	123	73.0-125			6.88	20
sec-Butylbenzene	5.00	5.88	6.08	118	122	75.0-125			3.34	20
tert-Butylbenzene	5.00	6.13	6.17	123	123	76.0-124			0.650	20
Carbon disulfide	5.00	5.33	5.42	107	108	61.0-128			1.67	20
Carbon tetrachloride	5.00	5.39	5.27	108	105	68.0-126			2.25	20
Chlorobenzene	5.00	6.33	6.56	127	131	80.0-121	J4	J4	3.57	20
Chlorodibromomethane	5.00	6.01	6.28	120	126	77.0-125		J4	4.39	20
Chloroethane	5.00	5.48	5.34	110	107	47.0-150			2.59	20
Chloroform	5.00	5.73	5.68	115	114	73.0-120			0.876	20
Chloromethane	5.00	4.90	5.42	98.0	108	41.0-142			10.1	20
2-Chlorotoluene	5.00	6.04	6.10	121	122	76.0-123			0.988	20
4-Chlorotoluene	5.00	6.12	6.19	122	124	75.0-122		J4	1.14	20
1,2-Dibromo-3-Chloropropane	5.00	5.92	6.14	118	123	58.0-134			3.65	20
1,2-Dibromoethane	5.00	6.13	6.60	123	132	80.0-122	J4	J4	7.38	20
Dibromomethane	5.00	5.97	6.10	119	122	80.0-120		J4	2.15	20
1,2-Dichlorobenzene	5.00	6.29	6.48	126	130	79.0-121	J4	J4	2.98	20
1,3-Dichlorobenzene	5.00	6.38	6.58	128	132	79.0-120	J4	J4	3.09	20
1,4-Dichlorobenzene	5.00	6.34	6.48	127	130	79.0-120	J4	J4	2.18	20
Dichlorodifluoromethane	5.00	5.47	5.59	109	112	51.0-149			2.17	20
1,1-Dichloroethane	5.00	5.50	5.53	110	111	70.0-126			0.544	20
1,2-Dichloroethane	5.00	5.68	5.65	114	113	70.0-128			0.530	20
1,1-Dichloroethene	5.00	5.59	5.46	112	109	71.0-124			2.35	20
cis-1,2-Dichloroethene	5.00	5.81	5.93	116	119	73.0-120			2.04	20
trans-1,2-Dichloroethene	5.00	5.68	5.61	114	112	73.0-120			1.24	20
1,2-Dichloropropane	5.00	5.46	5.50	109	110	77.0-125			0.730	20
1,1-Dichloropropene	5.00	5.38	5.29	108	106	74.0-126			1.69	20
1,3-Dichloropropane	5.00	6.38	6.60	128	132	80.0-120	J4	J4	3.39	20
cis-1,3-Dichloropropene	5.00	5.53	5.43	111	109	80.0-123			1.82	20
trans-1,3-Dichloropropene	5.00	5.83	6.32	117	126	78.0-124		J4	8.07	20
2,2-Dichloropropane	5.00	5.59	5.81	112	116	58.0-130			3.86	20
Di-isopropyl ether	5.00	5.39	5.38	108	108	58.0-138			0.186	20
Ethylbenzene	5.00	6.42	6.67	128	133	79.0-123	J4	J4	3.82	20
Hexachloro-1,3-butadiene	5.00	5.65	6.51	113	130	54.0-138			14.1	20
Isopropylbenzene	5.00	6.27	6.43	125	129	76.0-127		J4	2.52	20
p-Isopropyltoluene	5.00	5.86	6.08	117	122	76.0-125			3.69	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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

(LCS) R3561187-1 08/14/20 12:44 • (LCSD) R3561187-2 08/14/20 13:03

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 %
2-Butanone (MEK)	25.0	26.8	30.9	107	124	44.0-160			14.2	20
Methylene Chloride	5.00	5.34	5.72	107	114	67.0-120			6.87	20
4-Methyl-2-pentanone (MIBK)	25.0	29.7	31.8	119	127	68.0-142			6.83	20
Methyl tert-butyl ether	5.00	5.94	6.01	119	120	68.0-125			1.17	20
Naphthalene	5.00	5.76	6.20	115	124	54.0-135			7.36	20
n-Propylbenzene	5.00	5.94	6.06	119	121	77.0-124			2.00	20
Styrene	5.00	6.21	6.70	124	134	73.0-130		J4	7.59	20
1,1,1,2-Tetrachloroethane	5.00	6.39	6.40	128	128	75.0-125	J4	J4	0.156	20
1,1,2,2-Tetrachloroethane	5.00	6.31	6.39	126	128	65.0-130			1.26	20
1,1,2-Trichlorotrifluoroethane	5.00	5.26	5.26	105	105	69.0-132			0.000	20
Tetrachloroethene	5.00	6.35	6.43	127	129	72.0-132			1.25	20
Toluene	5.00	6.18	6.35	124	127	79.0-120	J4	J4	2.71	20
1,2,3-Trichlorobenzene	5.00	5.90	6.16	118	123	50.0-138			4.31	20
1,2,4-Trichlorobenzene	5.00	5.97	6.76	119	135	57.0-137			12.4	20
1,1,1-Trichloroethane	5.00	5.40	5.29	108	106	73.0-124			2.06	20
1,1,2-Trichloroethane	5.00	6.54	6.71	131	134	80.0-120	J4	J4	2.57	20
Trichloroethene	5.00	5.87	5.84	117	117	78.0-124			0.512	20
Trichlorofluoromethane	5.00	4.83	4.89	96.6	97.8	59.0-147			1.23	20
1,2,3-Trichloropropane	5.00	6.21	6.39	124	128	73.0-130			2.86	20
1,2,4-Trimethylbenzene	5.00	6.11	6.28	122	126	76.0-121	J4	J4	2.74	20
1,2,3-Trimethylbenzene	5.00	6.09	6.22	122	124	77.0-120	J4	J4	2.11	20
1,3,5-Trimethylbenzene	5.00	6.21	6.09	124	122	76.0-122	J4		1.95	20
Vinyl chloride	5.00	5.48	5.41	110	108	67.0-131			1.29	20
Xylenes, Total	15.0	19.1	19.6	127	131	79.0-123	J4	J4	2.58	20
(S) Toluene-d8				112	112	80.0-120				
(S) 4-Bromofluorobenzene				101	105	77.0-126				
(S) 1,2-Dichloroethane-d4				102	102	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) R3561337-3 08/18/20 23:01

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Ethylbenzene	U		0.137	0.500
Styrene	U		0.118	0.500
Toluene	U		0.278	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	111			80.0-120
(S) 4-Bromofluorobenzene	94.3			77.0-126
(S) 1,2-Dichloroethane-d4	95.4			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

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

(LCS) R3561337-1 08/18/20 22:04 • (LCSD) R3561337-2 08/18/20 22:23

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	24.3	36.0	97.2	144	19.0-160		J3	38.8	27
Ethylbenzene	5.00	5.06	4.93	101	98.6	79.0-123			2.60	20
Styrene	5.00	4.74	5.07	94.8	101	73.0-130			6.73	20
Toluene	5.00	5.07	4.85	101	97.0	79.0-120			4.44	20
Xylenes, Total	15.0	14.7	15.2	98.0	101	79.0-123			3.34	20
(S) Toluene-d8				109	105	80.0-120				
(S) 4-Bromofluorobenzene				93.4	105	77.0-126				
(S) 1,2-Dichloroethane-d4				93.9	95.8	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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
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

J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

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

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

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

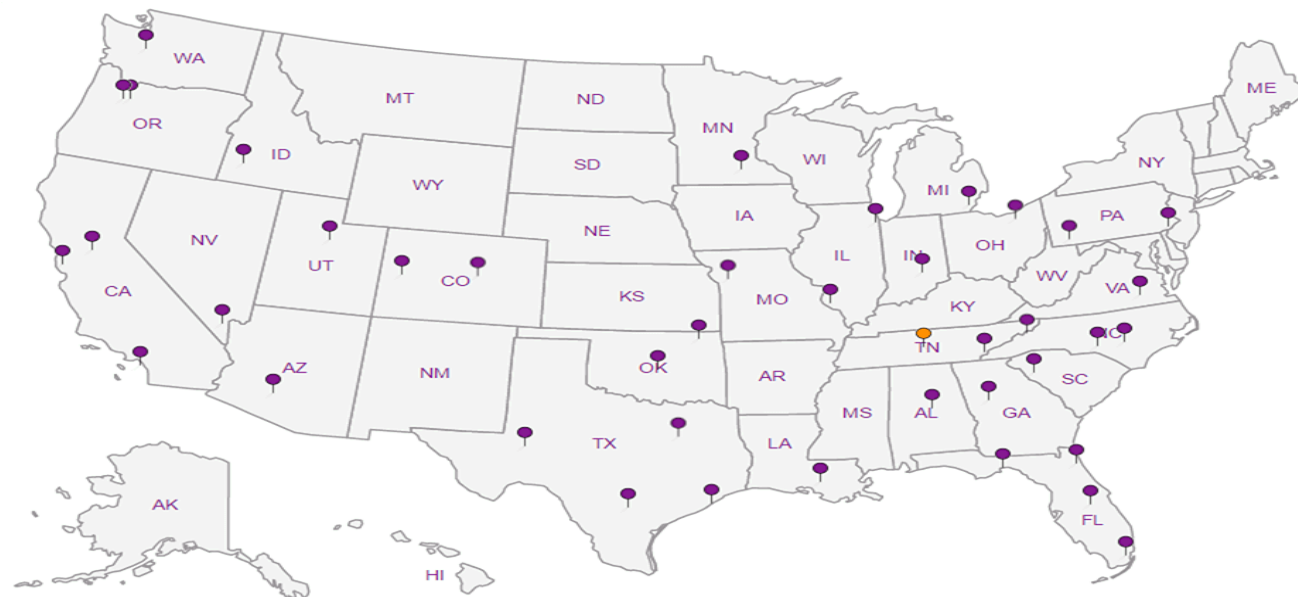
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

Our Locations

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



ACCOUNT:

Cascade Corporation- Fairview, OR

PROJECT:

PNG0564S19

SDG:

L1249774

DATE/TIME:

08/20/20 10:59

PAGE:

47 of 49

GeoSyntec, Inc. - OR

920 SW Sixth Avenue
Suite 600
Portland, OR 97204

Report to:
Brian Webb / Cindy BARTLETT

Project: Cascade TSA
Description:

Phone: 503-222-9518
Fax:

Client Project #
PNG0564S19

Lab Project #
GEOSYNPOR-PNG0564S19

Collected by (print):
PAT YADON / Mike TAYLOR

Site/Facility ID #

P.O. #

Collected by (signature):
[Signature]

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

Quote #

Immediately
Packed on Ice N Y X

Date Results Needed

Sample ID Comp/Grab Matrix * Depth Date Time

VMWi-081020-T		GW		8-10-20	8:40	3	X
VMWi-081020-M		GW		8-10-20	8:50	3	X
VMWi-081020-B		GW		8-10-20	9:00	3	X
VMWi-081020-B	PY	GW	PY	8-10-20	9:00	3	X
VMWJ2-081020-M		GW		8-10-20	9:25	3	X
VMWJ2-081020-B		GW		8-10-20	9:35	3	X
VMWJ2-081020-B	PY	GW	PY	8-10-20	9:35	3	X
VMWK-081020-M		GW		8-10-20	10:00	3	X
VMWK-081020-B		GW		8-10-20	10:10	3	X
VMWL-081020-T		GW		8-10-20	10:25	3	X

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

Remarks:

Samples returned via:
UPS FedEx Courier

Tracking # 1275 8605 8725

Relinquished by: (Signature)
Patrick [Signature]

Date: 8-10-20 Time: 13:00

Received by: (Signature)
[Signature]

Trip Blank Received: Yes / No
HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Received by: (Signature)

Temp: 2.5±0.25 48

Relinquished by: (Signature)

Date:

Received for lab by: (Signature)

Date: 08/14/20 Time: 0845

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

If preservation required by Login: Date/Time
Hold: Condition: NCF OK

Analysis / Container / Preservative									
V8260	40ml	Amb	HCl						

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 # U24574

F078

Acctnum: GEOSYNPOR
Template: T162223
Prelogin: P752752
PM: 110 - Brian Ford
PB:

Shipped Via: FedEx Ground

Remarks Sample # (lab only)

GeoSyntec, Inc. - OR

920 SW Sixth Avenue
Suite 600
Portland OR 97204

Report to:
Brian Webb / Cindy Bartlett

Project Description:

Phone: 503-222-9518
Fax:

Collected by (print):
PATYADON/MIKETAYLO

Collected by (signature):
Patyadon

Immediately
Packed on Ice N ☐ Y ☒

Billing Information:
Accounts Payable
920 SW Sixth Avenue
Suite 600
Portland, OR 97204

Email To: bwebb@Geosyntec.com
CBARTLETT@Geosyntec.com

City/State
Collected: Fairview OR.

Please Circle:
☒ PT ☐ MT ☐ CT ☐ ET

Client Project #
PNG0564S19

Lab Project #
GEOSYNPOR-PNG0564S19

Site/Facility ID #

P.O. #

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
VMWL-081020-M		GW		8-10-20	10:35	3
VMWL-081020-B		GW		8-10-20	10:45	3
VMWM-081020-T		GW		8-10-20	11:00	3
VMWM-081020-M		GW		8-10-20	11:12	3
VMWM-081020-B		GW		8-10-20	11:25	3
VMWN-081020-T		GW		8-10-20	11:40	3
VMWN-081020-M		GW		8-10-20	11:50	3
VMWN-081020-B		GW		8-10-20	12:00	3
TRIP BLANK LOT# 444		H2O		8-10-20	NA	1
		GW				3

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

Remarks:

Samples returned via:
☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)
Patyadon

Date: 8-10-20
Time: 13:00

Received by: (Signature)
Fed ex

Trip Blank Received: Yes/No
HCL MeOH
TBR

Relinquished by: (Signature)

Date:
Time:

Received by: (Signature)

Temp: 25.0-25.5
Bottles Received: 48

Relinquished by: (Signature)

Date:
Time:

Received for lab by: (Signature)

Date: 08/12/20
Time: 0845

If preservation required by Login: Date/Time

Hold: Condition: NCF OK

Analysis / Container / Preservative

Chain of Custody Page 2 of 2



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



SDG # L1249TM

Table #

Acctnum: GEOSYNPOR

Template: T162223

Prelogin: P752752

PM: 110 - Brian Ford

PB:

Shipped Via: FedEX Ground

Remarks Sample # (lab only)

	-09
	-10
	-11
	-12
	-13
	-14
	-15
	-16
	-17

Sample Receipt Checklist

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